



Product catalogue 2024

Residential & Commercial

De Dietrich 

SUMMARY

SERVICES



E-SERVICES
P5



USEFUL
INFORMATION
P7



ECO-SOLUTIONS
P8

HEAT PUMPS

01 HEAT PUMPS
AIR/WATER, WATER/WATER
4 TO 25 kW

RESIDENTIAL	RESIDENTIAL	COMMERCIAL
EASYLIFE	ADVANCE	PROJECT
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05 CAST IRON LOW TEMPERATURE BOILERS
16 TO 1450 kW

CF/CFU EcoNox p152

THE PICTOGRAMS

ENERGY



Fuel-Oil



Gas



Renewable energies
(solar, solid fuel, heat pump/electricity)



Electricity

TECHNOLOGY



Heat pump



Condensing



Low temperature

DOMESTIC HOT WATER

	RESIDENTIAL EASYLIFE	RESIDENTIAL ADVANCE	COMMERCIAL PROJECT
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08 DOMESTIC HOT WATER CALORIFIERS 80 TO 500 L	BMR 80 p189 SRB 130 p189 BLC 150 to 500 p190 L 160 SL p191	BPB 150 to 500 p192 EL 160 SL p191	
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	RESIDENTIAL EASYLIFE	RESIDENTIAL ADVANCE	COMMERCIAL PROJECT
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	RESIDENTIAL EASYLIFE	RESIDENTIAL ADVANCE	COMMERCIAL PROJECT
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13 BURNERS 16 TO 1030 KW	fuel oil burner M100 - M 40 p269 / gas burner G 110 S - G 40 p273
14 FLUE SYSTEMS AND HYDRAULIC MODULES	flue systems p279 / hydraulic modules p312
15 BOILER ROOM ACCESSORIES	boiler room accessories p317

FONCTIONS

-  Heating
-  Heating and DHW production
-  Air conditioning
-  Underfloor heating

EQUIPMENT

-  **VE** Equiped version (boiler with expansion vessel, heating pump, safety valve... and solar with control unit)
-  **Mounting frame** (prefitted with water/gas valves)
-  **Heat pump with magnetic filter**
-  **P** Propane
-  **BP** Propane and butane
-  **Compatible regulation DIEMATIC**
-  **Compatible room thermostat SMART TC°**

EVERYONE NEEDS ITS SOLUTION

PRODUCT OFFER A SEGMENTED OFFER DRIVEN BY CUSTOMER NEED

De Dietrich has developed specific product offers which correspond to the different kind of customers you could meet.

ADVANCE

- Complete, highly performing and multi-energy solutions
- Upgrade possibilities
- Highly precise steering
- Environmentally friendly solutions

EASYLIFE

- A quick payback
- A competitive price
- Core functions
- Simplicity

PROJECT

- Building approach developed hand in hand with customers
- Product offer adapted to both residential and commercial applications
- Collective solution or individualized solutions for dwellings



DE DIETRICH WEBSITE EVERYTHING ONLINE

- New look for our website - Take a peek!
This year our website has been updated. Its new homepage provides a modern, simple and interactive view on our products, news and brand strategy. Stay tuned for all updates online at: www.dedietrich-heating.com

PROFESSIONAL WEBSITE

INSTALLER, WHOLESALER, THE PROFESSIONAL ACCESS OF THE WEBSITE IS DEDICATED TO YOUR NEEDS

- You have to log in under pro.dedietrich-heating.com

PRODUCT DOCUMENTATION

- End-user leaflets, technical product forms, user guides, product pictures, videos are available within a click.



DIEMATTOOLS

- Excel files that help you to solve current technical problems. Solar, heat pumps or boilers in cascade Sizing for example.



RESIDENTIAL DIAGRAM DATABANK

- Gathering the hydraulic diagrams of 60 residential installations.

COMMERCIAL DIAGRAM DATABANK

- Databank incorporating the hydraulic and electrical drawings for Commercial and Tertiary installations in PDF and DWG format.



VIEWING SPARE PARTS

- Available all the constituent parts of a product, even if it is no longer marketed with information on availability.



ERP CALCULATION TOOL

- Find on each product page of our website an editing and calculation tool of energy labels to comply with directives Ecodesign and Energy-Labeling.



PROFESSIONAL WEBSITE

PRODUCT RANGES

- All the existing products of the De Dietrich brand are available on one page.

ADVICE

- Your customers can have a look at questions like "Which type of boiler ? Which fuel source ? What will my budget be ?...".



RETAIL OUTLET MATERIAL INCREASE YOUR VISIBILITY

In order to support your commercial growth, to personalize your tools and upgrade your point of sale, De Dietrich has developed many communication tools for you.

END-USER LEAFLETS

- Each product has its leaflet or video. To be given during the meeting with the end-user. Presents the benefits of the product on a client-oriented point of view.

TECHNICAL LEAFLETS

- Each product has its technical leaflet. This leaflet includes all the technical characteristics of the product and examples of installations.



DO YOU NEED A SPARE PART AS QUICK AS POSSIBLE?

SPARE PARTS CENTRE
QUICK DELIVERY GUARANTEED

PHONE +33 388 802 659 / 674 / 696

FAX +33 388 802 698

E-MAIL advcpr_export@bdrthermea.fr

Mondays to Thursdays
8 to 12 a.m - 1 to 5:30 p.m
Fridays
8 to 12 a.m/1 to 5 p.m



- A dedicated export team is at your disposal to find the right spare part amongst 25 000 references.
- Short delivery times are our major concern.



DO YOU WANT TO UPGRADE YOUR KNOWLEDGE?

- Theoretical and hands-on training workshops including renewable energies technologies available.
- Tailor-made courses from basic appreciation to an advanced technical level.

TRAINING COURSES

- Heat pump course
- Condensing Boiler Course
- Low Temperature Boiler Course
- Renewable Energies
- Control Systems
- Ecodesign and Eco-Labeling
- After Sales Services
- New Products
- New Customers

HOW TO CHOOSE YOUR TRAINING ?

Contact your De Dietrich Partner

DE DIETRICH WARRANTIES PARTS

Our appliances are covered by a warranty on parts against all defects in materials or intrinsic operating defects as of the date of purchase of the appliance by the user. The warranty does not include labour and travel expenses.



2 years

All products, accessories and parts unless stated otherwise below.

3 years

Boiler heating body excluding conventional wall-hung models, gas water heater tanks, domestic hot water tanks, electric water heater tanks < or equal to 50 litres, solar collectors.

5 years

Glass-lined tanks and heating bodies on electric water heaters > 50 litres, tanks on thermodynamic water heaters, tanks on solar DHW appliances, gas HP absorption motor.

Wearing parts (thermocouple, nozzle, electrode, gaskets, fuses, etc.) are not included in the warranty.

Nota: Those general warranty terms don't take into account local regulations.

ASSESS PRODUCT PERFORMANCE AT A GLANCE



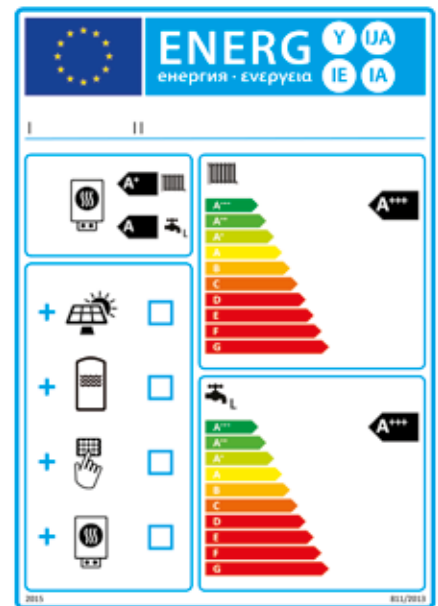
Created by De Dietrich, the ECO-SOLUTIONS label guarantees a product offering that complies with the latest European Eco Design and Energy Labelling directives.

Since 26th September 2015, the eco design and energy labelling directives have imposed a minimum energy efficiency and a maximum emissions level for pollutants and noise.

Energy labelling applies to power generators rated below 70 kW and hot water storage of less than 500 litres.



Heating boiler label alone



System label

REFERENCE SCALE FOR ENERGY LABELS

Customers can evaluate products and their energy performance, which is indicated on each product page by the corresponding energy label, using the reference scale shown below for a heating system, which is valid for each type of product.



Boilers and heat pumps: gas, oil and wood:

Scale valid for the label of a heating system with or without DHW.

The majority of our generators form part of a system, since they include at least a control system. The non-system scale for the generator alone runs from A++ to G.



Domestic hot water tanks, TWH, solar, electric and storage tanks:

Scale valid for product label only.

When a tank is combined with a solar system, the scale for the energy label runs from A+++ to G for DHW production.

ecosolutions.dedietrich-heating.com

It informs on the new directives which will apply to hot water and heating appliances. It enhances Eco-solutions made of products and services which go beyond the directives.



Measure of the savings done with an Eco-solution



Choice of the product range dedicated to the needs



Get informed, understand and edit the new energy labels



App to calculate, edit and print all the energy labels of the entire De Dietrich offer and a lot more...





HEAT PUMPS

01 HEAT PUMP: AIR/WATER, WATER/WATER FROM 4.6 TO 28 KW

RESIDENTIAL DOMESTIC SELECTION GUIDE

Strateo R32 (Air/Water Split Inverter)	p14
Alezio S (Air/Water Split Inverter)	p18
Alezio S V200 (Air/Water Split Inverter)	p22
HPI-S (Air/Water Split Inverter)	p26
HPI-M (Air/Water Monobloc)	p30
BEPC (DHW calorifier for heat pump)	p36
GSHP (water / water ground source)	p37



DE DIETRICH – HEAT PUMP MANUFACTURER SINCE 1981

Heat pump indoor units 100% manufactured in France.

The international heat pump Research & Development centre is based in the French city of Mertzwiller.

Since 2015, De Dietrich has owned the leading COFRAC accredited manufacturer's laboratory

for thermal and acoustic performance in Europe.

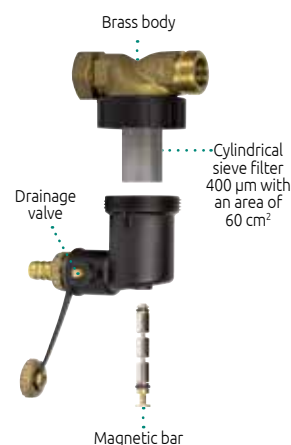


DE DIETRICH HEAT PUMPS AND HYBRID SOLUTIONS

The **magnetic sieve filter** is a safe and durable technical response to guarantee in time the smooth operation of our heat pump solutions.

Our **heat pumps** and hybrid systems **are factory equipped** with a filter adapted to our products. **Kits** for a second (mixed) circuit **also contain the magnetic filter**.

This filter consists of a sieve with a large collection area, three times larger than a conventional sieve filter and a very high capacity magnetic bar to capture all types of particles in the heating network. It also acts as a **sludge pot** and has an integrated **plug drain valve** to flush waste collected



IMPORTANT

The installation of this filter does not derogate from the respect of the rules of the art of installation and commissioning.

The simple and fast cleaning of the filter must be carried out systematically during each annual maintenance and in case of insufficient flow. Please observe the required characteristics for the heating water indicated in the instructions. Anything should be avoided, it is important to make sure good dimensioning of the expansion vessel and its inflation pressure.

HEAT PUMP AIR/WATER, WATER/WATER FROM 4.6 TO 28 KW

RESIDENTIAL DOMESTIC SELECTION GUIDE

Strateo R32

Alezio S

Alezio S V200



60°C

Strateo R32

60°C

Alezio S R32 / Alezio S

60°C

Alezio S V200 R32 / Alezio S V200



HP type

AIR/WATER

AIR/WATER

AIR/WATER

Nominal output

kw

from 4.6 to 7.65⁽¹⁾

from 4.6 to 14.6⁽¹⁾

from 4.6 to 14.6⁽¹⁾

Energy class heating (55°C)



Energy class DHW



-



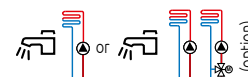
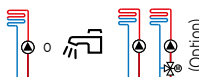
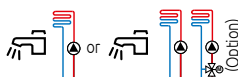
Power supply : • M (single)
• T (three-phase)

M

M/T

M/T

Control panel to manage



Type of back-up: • E (electric)
• H (hydraulic)

E

E/H

E/H

Type of DWH production with

integrated
DHW calorifier
(190 litre)

independent
DHW calorifier

integrated
DHW calorifier
(177 litre)

COP max./ EER max.

5.16⁽¹⁾/5.35⁽²⁾

5.11⁽¹⁾/4.75⁽²⁾

5.11⁽¹⁾/4.75⁽²⁾

Pages

14

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22

Options and examples of installation

17

21

25

(1) At +7 °C/+35 °C (outside air temperature/water flow temperature) according to EN 14511-2

(2) At +35 °C/+18 °C (outside air temperature/water flow temperature) according to EN 14511-2

(3) At +0°C; -3°C/+35 °C (source glycol water temperature (30 %)/ water flow temperature) according to EN 14511-2

HPI-S	HPI-M	BEPC 300	GSHP	GSHP	GSHP	GSHP	GSHP
60°C HPI-S	60°C HPI-M	BEPC 300	65°C GSHP	65°C GSHP../V200 GHL	65°C GSHP../B200 GHL	80°C GSHP../V200 GSHL	80°C GSHP../B200 GSHL
AIR/WATER	AIR/WATER	Combined domestic hot water calorifier for heat pump	WATER/WATER WATER-GLYCOL/WATER	WATER/WATER WATER-GLYCOL/WATER	WATER/WATER WATER-GLYCOL/WATER	WATER/WATER WATER-GLYCOL/WATER	WATER/WATER WATER-GLYCOL/WATER
from 4.6 to 24.4 ⁽¹⁾	from 6 to 11.2 ⁽¹⁾	-	from 5.7 to 27.9 ⁽³⁾	from 5.7 to 17.1 ⁽³⁾	from 5.7 to 17.1 ⁽³⁾	from 5.7 to 17.1 ⁽³⁾	from 5.7 to 17.1 ⁽³⁾
		-					
-	-		-				
M/T	M	-	M/T	M/T	M/T	M/T	M/T
		-					
E/H	E/H	-	E	E	E	E	E
independent DHW calorifier	independent DHW calorifier	290 litre	-	calorifier in column (194 litre)	calorifier juxtaposed (194 litre)	calorifier in column solar (187 litre)	calorifier juxtaposed solar (187 litre)
5.11 ⁽¹⁾ /4.75 ⁽²⁾	4.83 ⁽¹⁾ /4.74 ⁽²⁾	-	4.50 ⁽³⁾	4.50 ⁽³⁾	4.50 ⁽³⁾	4.50 ⁽³⁾	4.50 ⁽³⁾
26	30	36	37	38	38	39	39
29	33	-			43		

HEAT PUMP

AIR/WATER HEAT PUMPS **SPLIT INVERTER TRIPLE SERVICE**



EASYLIFE

Strateo R32

from 4,5 to 8 kW



OPTIONS: see following pages

ADVANTAGES

- Exceptional performance
- 2 hours installation time saving thanks to a fully equipped solution and patented hydraulic connection
- Silent with only 22 dB[A]
- Compact and easy to integrate (Possible in a cupboard)
- Eco-design and packaging 100% recyclable for a reduction of carbon footprint
- More performance, less pollution
- New connected and intuitive control panel
- Made in France (Indoor module)

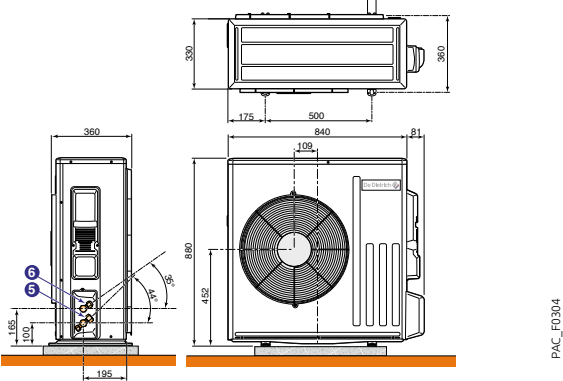
Air / water split Inverter triple service Heat pump composed by an outdoor unit, an indoor module incorporating a DHW tank of 190 liters and a connection plate

- Triple service, ensures the production of heating, domestic hot water and cooling or air conditioning
- Limitation of starting current by INVERTER technology
- **Outdoor unit** including: a modulating compressor, an evaporator made of a battery in copper pipes and aluminium fins, a helicoidal variable speed fan, an anti-surge, electronic expansion valves, a dehydrating filter, HP safety pressure switch
- **The indoor module** includes:
 - a connected and intuitive **Diematic Evolution** control panel, see regulation options
 - **all the necessary components:** condenser consisting of a stainless steel plate heat exchanger, heating pump, electrical back-up via integrated immersion 3 kW heater, 12 liter expansion vessel, flow meter and pressure sensor, 7 bar DHW safety valve, 3 bar heating safety valve, DHW inverting valve, disconnecter, thermostatic mixer on DHW outlet, automatic air vent, magnetic sieve filter

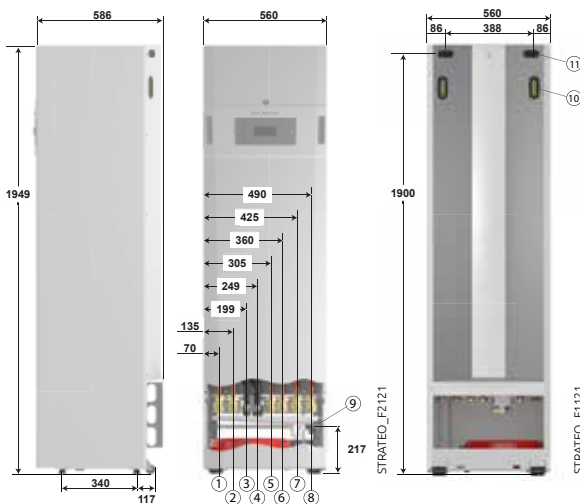
- 190 liters DHW tank in enamelled steel, standard equipped with dielectric fittings, protection through "Titan Active System" anode
- **Patented hydraulic connection plate "Easydraulic"** in version 1 or 2 circuits integrating: isolating and draining valves, non-return valve on cold water inlet and refrigeration hose to be mounted, safety valves and condensate drain collecting tray with integrated siphon
- **Diematic Evolution** control panel
- Controlled by 1 or 2 room thermostats connected SMART TC[®] (option) integrating energy metering and pre-setting according to the configuration of installation
- **De Dietrich START APP compatible:** quick commissioning APP in Bluetooth communication (availability date in the different languages to be confirmed)
- Outdoor sensor delivered with indoor module
- DHW expansion tank to be provided separately
- Possibility of managing two circuits (x1 direct + x1 valve) downstream of a compensator/separator.
- **Packaging:** 3 packages (delivery in separate packages on request)

MAIN DIMENSIONS (mm and inches)

AWHPR 4MR, AWHPR 6MR and AWHPR 8MR



INDOOR MODULE (PACKAGE HK263 ; REF 776963)



- ① 2nd circuit return (2C version) G 1"
- ② 2nd circuit flow (2C version) G 1"
- ③ Refrigerant fluid connection 1/4" flare
- ④ Refrigerant gas connection 1/2" flare
- ⑤ Domestic hot water outlet Ø R 3/4"
- ⑥ Domestic cold water inlet Ø R 3/4"
- ⑦ Heating flow G 1"
- ⑧ Heating return G 1"
- ⑨ Outflow Ø 32
- ⑩ Handle
- ⑪ Cable routing

CONTROL PANEL DIEMATIC EVOLUTION



HYDRAULIC PRE-ASSEMBLY FRAME (Package HK266, Ref 776966) "EASYDRAULIC"





TECHNICAL SPECIFICATIONS

Use limit temperature in heating mode:
 • Water: + 18°C/+ 60°C
 • Outside air: - 20°C/+ 35°C

Use limit temperature in air conditioning mode:
 • Water: + 7°C/+ 25°C
 • Outside air: + 7°C/+ 46°C

Use limit temperature in cooling mode:
 • Water: + 18°C/+ 25°C
 • Outside air: + 7°C/+ 46°C

Heating circuit:
 • Max. operating pressure: 3 bar
 • Max. operating temperature: 75°C

DHW circuit:
 • Max. operating pressure: 10 bar
 • Max. operating temperature: 75°C

MODEL

	STRATEO	4 MR/E	6 MR/E	8 MR/E
SEASONAL PERFORMANCES				
Energy efficiency class (SEE) (heating) (35°C) / DWH		A+++/A+	A+++/A+	A++/A+
Energy efficiency class (SEE) (heating) (55°C) / DWH		A++/A+	A++/A+	A++/A+
SCOP (35°C/55°C)		4.48/3.43	4.50/3.37	4.48/3.21
Seasonal space heating energy efficiency under average temperature (35°C/55°C) *	%	176/134	177/132	176/125
Seasonal space heating energy efficiency under average temperature (35°C/55°C) (with outdoor sensor supplied as standard)	%	178/136	179/134	178/127
DHW seasonal energy efficiency (M/L cycle)	%	131/139	123/125	122/120
CERTIFIED THERMAL PERFORMANCE *** (different dimensioning values: see pages 34 and 35)				
Heat output at +7°C/+35°C / Pmax (1)	kW	4.60/7.10	6.40/8.70	7.60/9.00
Heating COP at +7°C/+35°C (1)		5.20	5.00	4.57
Heating output at -7°C/+35°C / Pmax (1)	kW	2.93/6.10	4.11/7.30	6.13/7.70
Heating COP at -7°C/+35°C (1)		3.11	2.87	3.20
Cooling output at +35°C/+18°C (5)	kW	6.00	7.00	7.10
Cooling COP at +35°C/+18°C (5)		5.35	4.88	4.88
Air conditioning performance at +35°C/+7°C (5)	kW	4.5	6.5	6.5
EER at +35°C/+7°C (5)		3.6	2.83	2.79
Max. usable hot water volume (Vmax) (2)	litres	279	277	278
Heating time (th) de 10°C to 55°C (2)	hh: mm	1h35	1h35	1h25
Power absorbed at stabilised rate (Pes) (2)	W	31.8	35.5	34.9
Draw-off cycle (2)		L	L	L
COP_DHW (draw-off cycle) (2)		3.3	3.2	2.85
Outdoor module sound power (3)	dB[A]	58	58	59
Indoor module sound power (3)	dB[A]	32	34	36
TECHNICAL SPECIFICATIONS				
Outdoor module perceived sound level(4)	dB[A]	36	36	37
Indoor module perceived sound level(4)	dB[A]	24	26	28
Nominal water flow rate at ΔT = 5 K	m³/h	0.79	1.1	1.31
Total dynamic head at nominal flow rate at ΔT = 5 K	mbar	650	550	300
Power supply voltage of the outdoor unit	V	230V mono	230V mono	230V mono
Start-up amperage	A	5	5	5
DHW tank capacity	litres	190	190	190
Refrigerant fluid R32	kg	1.2	1.2	1.2
CO ₂ equivalent	tonne	0.81	0.81	0.81
Max. pre-loaded length	m	10	10	10
Length min - max **	m	5-30	5-30	5-30
Refrigerant connection (liquid-gas)	inches	1/4 - 1/2	1/4 - 1/2	1/4 - 1/2
Outdoor unit weight	kg	54	54	54
Indoor unit/hydraulic plate weight (1C)	kg	173/13.3	173/13.3	173/13.3

* Values certified according directives n°813/2013

** Max height difference 30 m for all models

*** Values given as an indication

(1) Heating mode: outside air temperature/water temperature at outlet, performance in accordance with EN 14511-2

(3) Test performed in accordance with standard EN 12102-1

(4) At 1 m in a free field (5 m for the outdoor unit)

(5) Air conditioning mode: outdoor air temperature/water temperature at the outlet, performance according to EN 14511-2.

MODEL

	STRATEO	4 kW	6 kW	8 kW
Strateo MR/E R32 (1 circuit) COMPLETE (1)	Ref	7773965	7773966	7773967

(1) COMPLETE with indoor module + outdoor unit + hydraulic connection template

PACKAGE DETAIL

	PACKAGE	REFERENCE
Internal module MIC-1C V190	HK263	7766963
Hydraulic connection template 1 circuit	HK266	7766966
AWHPR 4 MR outdoor unit	HK80	7736361
AWHPR 6 MR outdoor unit	HK81	7736362
AWHPR 8 MR outdoor unit	HK82	7736363

OPTIONS

FOR AIR/WATER SPLIT INVERTER HEAT PUMPS STRATEO R32



ALL OPTIONS EXCEPT CONTROL UNITS

REFRIGERATION OPTIONS

	PACKAGE	REF
Wall bracket + antivibratil studs	EH95	100011222
Floor installation base	EH112	100012533
Rubber floor installation base 600 mm	EH879	7694974
Refrigeration connection:		
• PE 1/2" 1/4" - length 2,3 m R32	HK267	7766855
• PE 1/2" 1/4" - length 10 m	EH142	100015476
Condensate evacuation plug kit:		
• AWHPR 4,6 and 8 MR	EH982	7727910

HYDRAULIC OPTIONS

	PACKAGE	REF
6 hydraulic tubes for connection to copper pipe	EH920	7726776
Lift pump	EH860	7687189
Buffer tank B 80 T (80 l)	EH85	100008841
Buffer tank B 150 T (150 l)	EH60	100004415
Hydraulic pre assembled kit 2nd circuit	EH917	7717436
Differential by-pass valve	HK150	7746242
Decoupling cylinder 25 l	HK146	7746192
Solar hydraulic kit with board	EH919	7717499
Hydraulic connection kit 2nd mixed circuit for mounting frame (1)	EH988	7741322
Hydraulic frame 1C including refrigerant connections	HK264	7766827
Hydraulic frame 2C including refrigerant connections	HK265	7766965

(1) EH988 + EH916 + EH917 must be ordered together for correct installation and operation

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

- EH916 and EH917 packages are used to add and manage the 2nd mixed circuit inside the MIC (indoor unit).

NOTE:

Can be completed in choice by:

- a remote control: package AD337, AD338, AD140

or

- a room sensor: AD324, AD341 or AD342

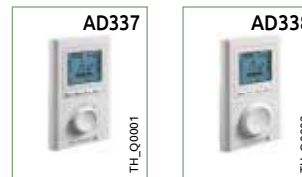
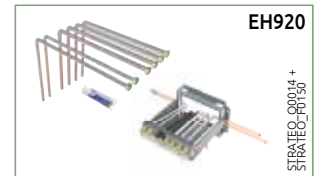
CONTROL UNITS

	PACKAGE	REF
Room thermostat:		
• Non-programmable room thermostat (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
Connected room thermostat:		
• SMART TC [®] , R-BUS (wire)	AD324	7691375
• SMART TC [®] RF (wireless)	AD341	7691377
• SMART TC [®] RF (wireless) for 2 nd circuit	AD342	7765144
Sensor:		
• Outside sensor (wireless) only in combination with the AD341*	AD346	7776874
Humidity sensor set (0-10 V)	HZ64	7622433
Hygro sensor kit for cooling (On-Off)	HK27	100019114
2nd circuit PCB kit (1) (2)	EH916	7726492
Direct underfloor heating cable pack	HA255	7624902

* need to order the connected room sensor AD341

(1) EH988 + EH916 + EH917 must be ordered together for correct installation and operation.

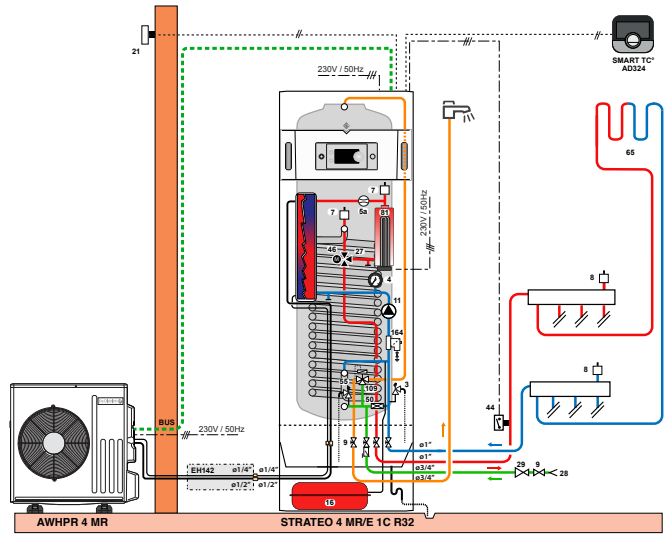
(2) In case of installation downstream of a compensator/separator, also order the flow sensor AD199 (in this case it is not necessary to order the EH917 package).



EXAMPLE OF INSTALLATION

FOR AIR/WATER HEAT PUMPS STRATEO R32

STRATEO R32 STRATEO 4 MR/E R32 1C

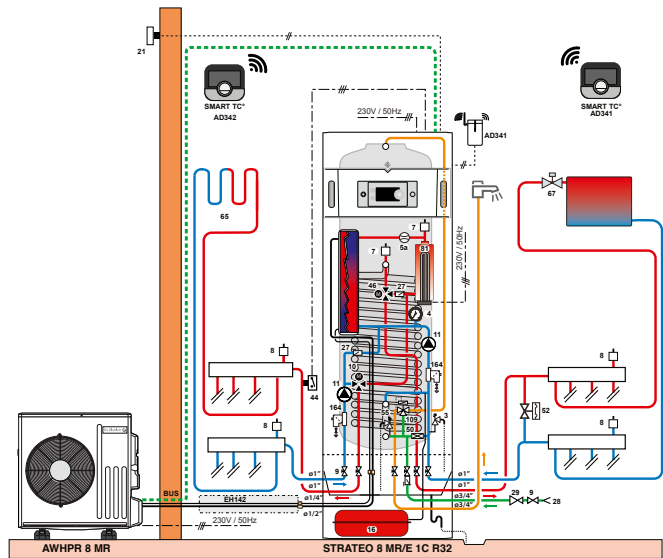


- 1 direct underfloor heating circuit
- controlled by 1 connected room thermostat SMART TC[®]

DESCRIPTION

	PACKAGE	REF
Heat pump STRATEO R32 4 MR/E 1 circuit	-	7773965
Magnetic sieve filters	-	as standard
Connected room thermostat SMART TC [®] , R-BUS (wire)	AD324	7691375
Direct underfloor heating cable pack	HA255	7624902
Options		
- Refrigerant connection PE 1/2" 1/4" - length 10 m	EH142	100015476
- Rubber floor installation base 600 mm	EH879	7694974

STRATEO R32 STRATEO 8 MR/E R32 1C



- 1 radiator circuit
- 1 underfloor heating circuit with mixing valve
- each circuit controlled by 1 SMART TC room thermostat

DESCRIPTION

	PACKAGE	REF
Heat pump STRATEO R32 8 MR/E 2 circuits	-	7773967
2nd circuit PCB kit	EH916	7726492
2nd mixing valve hydraulic kit	EH917	7717436
Hydraulic connection kit 2nd mixed circuit for template	EH988	7741322
2 x Magnetic sieve filters	-	as standard
Connected room thermostat SMART TC [®] RF (wireless)	AD341	7691377
Connected room thermostat SMART TC [®] RF (wireless) for 2nd circuit	AD342	7765144
Direct underfloor heating cable pack	HA255	7624902
- Differential by-pass valve	HK150	7746242
Options		
- Refrigerant connection PE 1/2" 1/4" - length 10 m	EH142	100015476
- Rubber floor installation base 600 mm	EH879	7694974

HEAT PUMP

REVERSIBLE AIR/WATER HEAT PUMPS "SPLIT INVERTER"

EASYLIFE



Alezio S R32 4.6 to 7.6 kW Alezio S R410A 11.39 to 14.65 kW



point

Competitive price positioning
COP of up to 5.2
Quick and easy installation
Meets basic needs both new
and renovation

OPTIONS: see following pages

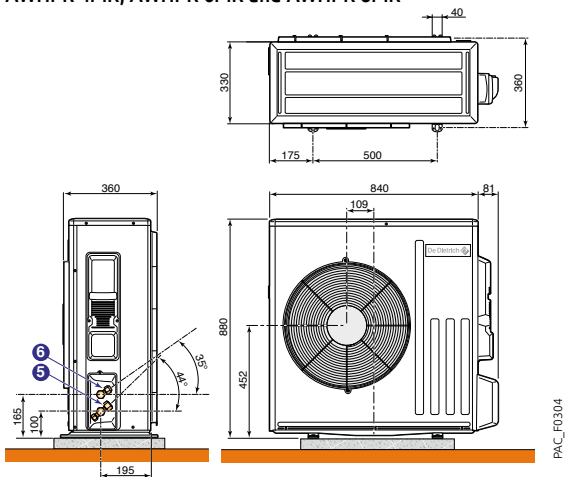
Inverter air/water heat pump including an outdoor unit and an indoor MIV-S module. Ensures the production of heating, domestic hot water (with accessories) and cooling

- Limitation of starting current by INVERTER technology
- Outdoor unit a modulating compressor, an evaporator made of a battery in copper pipes and aluminium vanes, one or two helicoidal variable speed fans, an anti-surge and output reserve cylinder, for R410A electronic expansion valves, a dehydrating filter, HP safety pressure switch
- Indoor hydraulic module MIV-S/H... with hydraulic back-up by boiler and MIV-S/E ... with electrical backup, including:

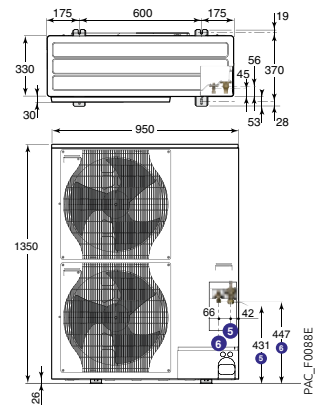
- Connected and intuitive Diematic Evolution control panel
- Condenser made of a stainless steel plate exchanger, heating pump (EEI < 0.23), 8-litre expansion vessel, manual pressure gauge, safety valve, automatic air vent, flow rate controller, a sludge separator with filter and magnet,
- Models available for heating and cooling by under-floor-heating (model .../EM or .../H single-phase and .../ET or .../H three-phase),
- Outdoor sensor delivered with indoor module
- De Dietrich START APP compatible: quick commissioning APP in Bluetooth communication.(availability date in the different languages to be confirmed)
- Packaging: 2 packages

MAIN DIMENSIONS (mm and inches)

AWHPR 4MR, AWHPR 6MR and AWHPR 8MR



AWHP 11 and 16 TR/MR-2

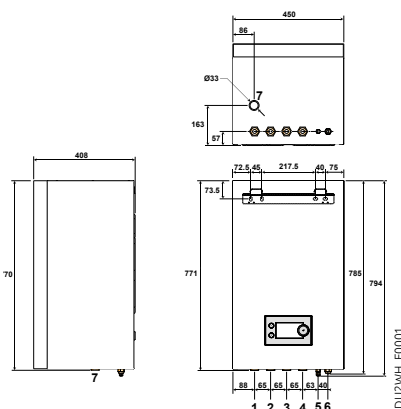


CONTROL PANEL DIEMATIC EVOLUTION



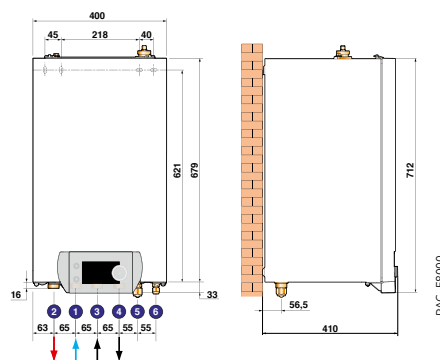
- ① Heating return G 1
- ② Heating flow G 1
- ③ Boiler flow connection G 1 (with MIV-S/H only)
- ④ Boiler return connection G 1 (with MIV-S/H only)
- ⑤ Refrigerant gas connection: see below
- ⑥ Refrigerant fluid connection: see below

INDOOR MODULE MIV-S R32/EM/H



Model	⑤ Refrigerant gas connection	⑥ Refrigerant fluid connection
Outdoor unit: AWHPR ... MR R32	4,6 and 8	1/4" flare
Indoor unit: MIV-S 4-8 R32 /EM		1/2" flare
Outdoor unit: AWHP ...MR/TR	11 and 16	5/8" flare
Indoor unit: MIV-S/EM,ET		3/8" flare

INDOOR MODULE MIV-S/EM, ET or H (R410)



TECHNICAL SPECIFICATIONS

Use limit temperature in heating mode:
 • Water: + 18°C/+ 60°C
 • Air ext.: - 20°C/+ 35°C

Use limit temperature in cooling mode:
 • Water: + 18°C/+ 25°C
 • Outside air: + 7°C/+ 46°C

Max. operating pressure: 3 bar
 Max. operating temperature: 95°C (75°C with .../E)

MODEL

	ALEZIO S R32			ALEZIO S	
	4 MR	6 MR	8 MR	11 MR 11 TR	16 MR 16 TR
SEASONAL PERFORMANCES					
Energy efficiency class (SEE) (heating) (35°C)	A+++	A+++	A+++	A+++	A+++
Energy efficiency class (SEE) (heating) (55°C)	A++	A++	A++	A++	A+
SCOP (35°C/55°C)	4.50/3,44	4.52/3,38	4.50/3,34	4.54/3,20	4.45/3,10
Seasonal space heating energy efficiency under average temperature (35°C/55°C) *	% 177/135	178/132	177/131	178/125	175/121
Seasonal space heating energy efficiency under average temperature (35°C/55°C) (with outdoor sensor supplied as standard)	% 178/137	180/134	179/133	180/127	177/123
CERTIFIED THERMAL PERFORMANCE*** (different dimensioning values: see pages 34 and 35)					
Heat output at +7°C/+35°C / Pmax (1)	kW 4.60/7,10	6.40/8,70	7.60/9,00	11.39/14,79	14.65/17,28
Heating COP at +7°C/+35°C (1)	5.20	5.00	4.77	4.65	4.22
Heating output at -7°C/+35°C / Pmax (1)	kW 2.93/6.10	4.65/7.30	6.01/7.70	8.09/10.59	9.83/12.37
Heating COP at -7°C/+35°C (1)	3.11	3.09	2.99	2.88	2.75
Outdoor module sound power (3)	dB[A] 58	58	59	69	68
Indoor module sound power (3)	dB[A] 33	33	33	53	53
TECHNICAL SPECIFICATIONS					
Outdoor module perceived sound level(4)	dB[A] 36	36	37	47	47
Indoor module perceived sound level(4)	dB[A] 25	25	25	45	45
Cooling output at +35°C/+18°C (5)	kW 6.0	7.0	7.1	11.16	14.46
Cooling COP at +35°C/+18°C (5)	5.35	5.14	4.88	4.75	3.96
Air conditioning performance at +35°C/+7°C (5)	kW 4.50	6.50	6.50	10.54	10.37
EER - Air conditioning coefficient of performance at +35 °C/+7 °C (5)	3.6	3.09	3.09	2.77	2.89
Nominal water flow rate at ΔT = 5 K	m³/h 0.79	1.10	1.31	1.96	2.53
Total dynamic head at nominal flow rate at ΔT = 5 K	mbar 670	520	340	136	-
Power supply voltage of the outdoor unit	- MR - TR V	230 V monofase	230 V monofase	230 V monofase 400 V trifase	230 V monofase 400 V trifase
Curved circuit breaker protection C outdoor unit	- MR - TR A	16	16	16 32 16	40 40 16
Refrigerant fluid R32	kg 1.2	1.2	1.2	-	-
Refrigerant fluid R410A	kg -	-	-	4.6	4.6
CO ₂ equivalent	tonne 0.81	0.81	0.81	9.6	9.6
Refrigerant connection (liquid-gas)	pouce 1/4-1/2	1/4-1/2	1/4-1/2	3/8-5/8	3/8-5/8
Max. pre-loaded length	m 10	10	10	10	10
Length min - max **	m 5-30	5-30	5-30	2-75	2-75
Weight of outdoor unit without charge	- MR - TR kg	54	54	118 130	118 130
Weight of indoor module without charge (tank)	kg 32	32	32	37	37

* Values certified according directives n°813/2013

** Max height difference 30 m for all models

*** Values given as an indication

(1) Heating mode: outside air temperature/water temperature at outlet, performance in accordance with EN 14511-2

(3) Test performed in accordance with standard EN 12102-1

(4) At 1 m in a free field (5 m for the outdoor unit)

(5) Air conditioning mode: outdoor air temperature/water temperature at the outlet, performance according to EN 14511-2.

HEATING AND AIR CONDITIONING WITH FANCOILS

MODEL

	ALEZIO S R32	4 kW	6 kW	8 kW
ALEZIO S R32 ... MR/EM (electrical back-up / monophase)	Ref	7792409	7792410	7792411
ALEZIO S R32 MR/H (hydraulic back-up / monophase)	Ref	7792412	7792413	7792414

HEATING AND COOLING BY UNDERFLOOR HEATING

MODEL

	ALEZIO S R410A	11 kW	16 kW
ALEZIO S ... E/MR (electrical back-up / monophase)	Ref	7694544	7694548
ALEZIO S ... E/TR (electrical back-up / triphase)	Ref	7694546	7694550
ALEZIO S ... H/MR (hydraulic back-up / monophase)	Ref	7694543	7694547
ALEZIO S ... H/TR (hydraulic back-up / triphase)	Ref	7694545	7694549

OPTIONS

FOR AIR/WATER SPLIT INVERTER HEAT PUMP ALEZIO S

ALL OPTIONS EXCEPT CONTROL UNITS

ACCESSORIES

	PACKAGE	REF
Wall bracket + antivibratil studs		
• AHWPR 4, 6 and 8 MR...	EH95	100011222
• AWHP 11 and 16 MR/TR...	EH250	100018409
Floor installation base AWHP	EH112	100012533
Floor installation rubber base 600 mm	EH879	7694974
Refrigeration connection:		
• PE 1/2" 1/4" - length 10 m	EH142	100015476
• PE 5/8" 3/8" - length 5 m	EH114	100012535
• PE 5/8" 3/8" - length 10 m	EH115	100012536
• PE 5/8" 3/8" - length 20 m	EH116	100012537
Condensate draining kit:		
• AWHPR 4, 6 and 8MR	EH982	7727910
• AWHP 11 and 16 MR/TR	EH981	7727908
Set hoses frigorific	HK439	7791636

HYDRAULIC OPTIONS

	PACKAGE	REF
Buffer tank B 80 T (80 l)	EH85	100008841
Buffer tank B 150 T (150 l)	EH60	100004415
Differential by-pass valve	HK150	7746242
Set manometer	HK419	7791634
Set low noise	EH572	7636899
Decoupling cylinder 25 l	HK146	7746192
2nd circuit hydraulic kit V3V external	HK152	7746307

DHW PRODUCTION

	PACKAGE	REF
Hydraulic connection kit heat pump/DHW calorifier	EH149	100015468
Calorifier BLC 150	EC604	100018088
Calorifier BLC 200	EC605	100018089
Calorifier BLC 300	EC606	100018090
Calorifier BEPC 300	ER615	7620661
Domestic heating reversal valve + DHW sensor	EH784	7685541
Sensor DHW and TAS	AD212	100000030

COMBINATIONS ALEZIO EVOLUTION/ INDEPENDENTS DHW CALORIFIER RECOMMENDED

	CAPACITY (L)	COIL EXCHANGE SURFACE (m ²)	Q _{pr} (KWh/24 h)	4 MR	6 MR	AWHP 8 MR	11 MR/TR	16 MR/TR
BLC 150	150	0,76	1,4	●	●	●	●	○
BLC 200	200	0,93	1,8	●	●	●	●	●
BLC 300	300	1,20	2,2	○	○	○	●	●

● Combination recommended ○ Combination not recommended

Note: other characteristics for BLC calorifiers see chapter 8

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

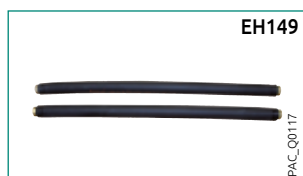
Circuit type	DHW	direct	direct + valve
Alezio S	EH784	as standard (1)	EH783 + HK152
Alezio SR32	EH784	as standard (1)	HK416 + HK152

(1) Can be completed in choice by a remote control: package AD337, AD338, AD140 or AD324

CONTROL UNITS

	PACKAGE	REF
Room thermostat:		
• Non-programmable room thermostat (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
• Programmable (wired 230V)	AD345	7774421
• SMART TC [®] RF (wireless)	AD341	7691377
• SMART TC [®] RF (wireless) for 2 nd circuit	AD342	7765144
Sensor:		
• Humidity sensor set (0-10 V)	HZ64	7622433
• Hygro sensor kit for cooling (On-Off)	HK27	100019114
• Sensor for mixing valve	AD199	88017017
• Outside sensor (wireless) only in combination with the AD341*	AD346	7776874
Direct underfloor heating cable pack	HA255	7624902
Silencer for outside module (AWHP 11-16kW)	EH572	7636899
Mixing circuit regulation kit MIV-S R410A	EH783	7683828
Mixing circuit regulation kit MIV-S R32	HK416	7789286
Kit SCB-01	HK417	7789521

* need to order the connected room sensor AD341

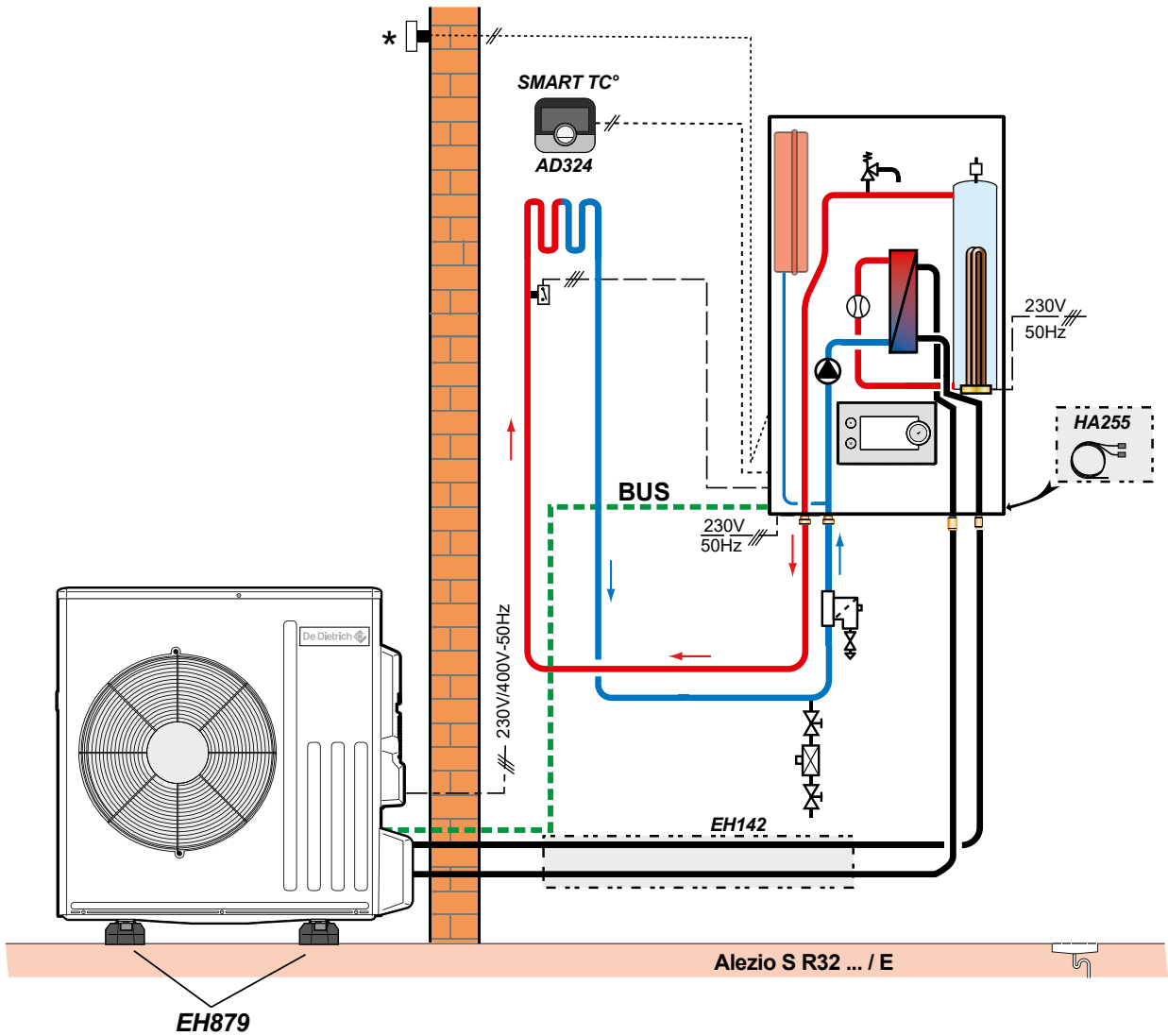


EXAMPLE OF INSTALLATION

FOR AIR/WATER HEAT PUMP ALEZIO S R32

Alezio S R32

AWHPR 6 MR/EM
in a new house



* Part of the delivery

DESCRIPTION

	PACKAGE	REF
Heat pump Alezio S R32 6 MR/EM	-	7792410
Connected room thermostat: - SMART TC°, R-BUS (wire)	AD324	7691375
Options		
Refrigeration connection: - PE 1/2" 1/4" - length 10 m	EH142	100015476
- Floor installation rubber base 600 mm	EH879	7694974

HEAT PUMP

REVERSIBLE AIR/WATER HEAT PUMPS "SPLIT INVERTER" WITH INTEGRATED DHW CALORIFIER INTEGRATED IN THE MIV-S V200

EASYLIFE



OPTIONS: see following pages

TECHNOLOGY "HYDRAULINK"



Alezio S V 200 R32 4.6 to 7.6 kW Alezio S V 200 R410A 11.39 to 14.65 kW



point
Heating and DHW comfort
Compact solution
High Heating and DHW performances
Integration under stairs or cellar...
Suitable for new or existing installations

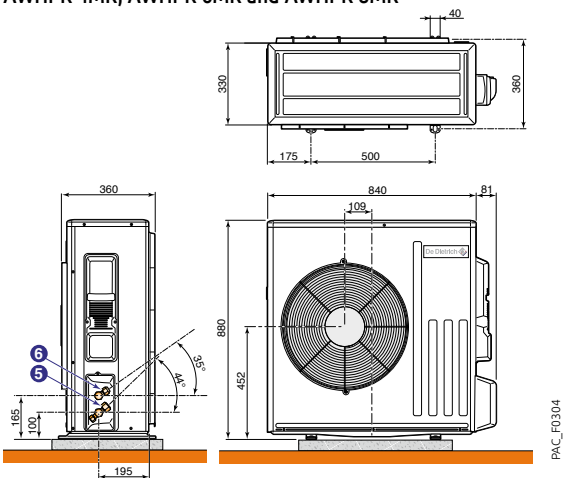
Inverter air/water heat pump including an outdoor unit, an indoor MIV-S.V200 module and a DHW calorifier of 180 litre.

- Reversible for underfloor heating/cooling (air-conditioning with fan coils possible with option "Insulation Set")
- Start-up current limitation through INVERTER technology
- Outdoor unit including: modulating compressor, evaporator made of battery in copper pipes and aluminium vanes, one or two helicoidal variable speed fans, anti-surge and output reserve cylinder, for R410A electronic expansion valves, dehydrating filter, HP safety pressure switch
- MIV-S V200 indoor hydraulic module available in 2 versions:
 - MIV-S V200/E: for backup heating through integrated electrical heat element 3 or 6 kW single-phase, 3-6-9 kW three-phase. This module cannot be installed without the heat pump

- MIV-S V200/H: for hydraulic boiler back-up.
- The indoor module comprises:
 - Intuitive and user friendly and connected new E-Pilot control panel (see control options)
 - Condenser made of a stainless steel plate exchanger, decoupling cylinder, heating pump, 8 litre expansion vessel, electronic manometer, safety valve, automatic air vent, flow rate controller, a sludge separator with magnetic filter,
 - Enamelled 180 litre DHW coil calorifier with protection by magnesium anode and connecting pipes to MIV-S V200.
 - Outdoor sensor delivered with indoor module
 - De Dietrich START APP compatible: quick commissioning APP in Bluetooth communication.(availability date in the different languages to be confirmed)
- Packaging: 2 packages

MAIN DIMENSIONS (mm and inches)

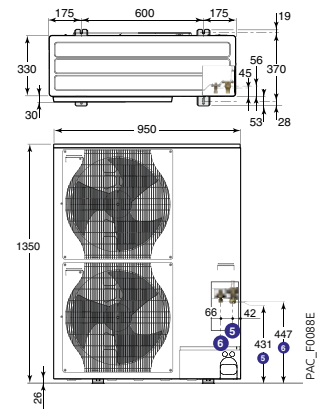
AWHPR 4MR, AWHPR 6MR and AWHPR 8MR



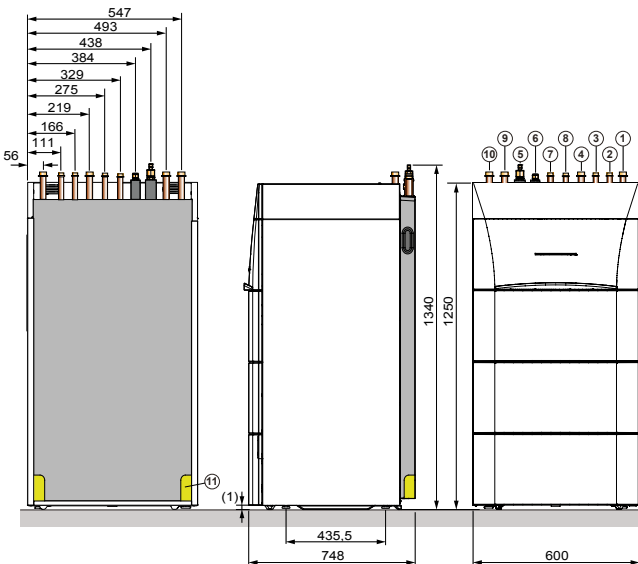
CONTROL PANEL DIEMATIC EVOLUTION



AWHP 11 and 16 TR/MR-2



INDOOR MODULE MIV-S V200



- Heating flow G 1
- Boiler flow connection G 3/4 (only with hydraulic back-up version)
- Boiler return connection G 3/4 (only with hydraulic back-up version)
- Heating return G 1
- Refrigerant gas connection: see below
- Refrigerant fluid connection: see below
- Domestic hot water outlet G 3/4
- Domestic cold water inlet G 3/4
- Heating flow for circuit with mixing valve G 1 (option EH858)
- Heating return from circuit with mixing valve G 1 (option EH858)
- Condensates drain Ø 32 mm
- Feet adjustable

	Model	⑤ Refrigerant gas connection	⑥ Refrigerant fluid connection
Outdoor module AWHPR ... MR/TR	4, 6 and 8	1/2" flare	1/4" flare
Indoor unit	MIV-S V200 R32	1/2" flare	1/4" flare
Outdoor unit AWHPR... MR/TR	11 to 16	5/8" flare	3/8" flare
Indoor module	MIV-S V200	5/8" flare	3/8" flare

TECHNICAL SPECIFICATIONS

Use limit temperature in heating mode:

- Water: + 18°C/+ 60°C
- Air ext.: - 20°C/+ 35°C

Heating circuit:

- Max. operating pressure: 3 bar
- Max. operating temperature: 95°C with (.../H) et 75°C with (.../E)

Use limit temperature in cooling mode:

- Water: + 18°C/+ 25°C or + 7°C/+ 25°C (with option EH859)
- Outside air: + 7°C/+ 46°C

DHW circuit:

- Max. operating pressure: 10 bar
- Max. operating temperature: 65°C

MODEL	ALEZIO S ...V200 R32			ALEZIO S ...V200 R410A	
	4 MR	6 MR	8 MR	11 MR 11 TR	16 MR 16 TR
SEASONAL PERFORMANCES					
Energy efficiency class (SEE) (heating) (35°C)	A+++	A+++	A+++	A+++/A	A+++/A
Energy efficiency class (SEE) (heating) (55°C)	A++	A++	A++	A++/A	A+/A
SCOP (35°C/55°C)	4,48/3,43	4,5/3,37	4,48/3,21	4,54/3,20	4,45/3,10
Seasonal space heating energy efficiency under average temperature (35°C/55°C) *	% 176/134	177/132	176/125	178/125	175/121
Seasonal space heating energy efficiency under average temperature (35°C/55°C) (with outdoor sensor supplied as standard)	% 178/136	179/134	178/127	180/127	175/123
DHW seasonal energy efficiency (M/L cycle)	% 127/138	111/113	111/113	114	114
CERTIFIED THERMAL PERFORMANCE*** (different dimensioning values: see pages 34 and 35)					
Heat output at +7°C/+35°C/ Pmax (1)	kW 4.60/7.10	6.40/8.70	7.60/9.00	11.39/14.79	14.65/17.28
Heating COP at +7°C/+35°C (1)	5.20	5.00	4.73	4.65	4.22
Heating output at -7°C/+35°C/ Pmax (1)	kW 2.93/6.10	4.65/7.30	6.01/7.70	8.09/10.59	9.83/12.37
Heating COP at -7°C/+35°C (1)	3.11	3.09	2.99	2.88	2.75
Max. usable hot water volume (Vmax) (2)	litre 255	254	254	231	231
Heating time (th) de 10°C to 55°C (2)	hh:mm 1h32	1h31	1h30	1h33	1h11
Power absorbed at stabilised rate (Pes) (2)	W 28	33	33	35	35
Draw-off cycle (2)	L	L	L	L	L
COP_DHW (M/L draw-off cycle) (2)	3.05	2.70	2.70	2.72	2.72
Outdoor module sound power (3)	dB[A] 58	58	59	69	69
Indoor module sound power (3)	dB[A] 29	31	32	48	48
TECHNICAL SPECIFICATIONS					
Outdoor module perceived sound level(4)	dB[A] 36	36	37	47	47
Indoor module perceived sound level(4)	dB[A] 21	23	24	40	40
Cooling output at +35°C/+18°C (5)	kW 6.0	7.0	7.1	11.16	14.46
Cooling COP at +35°C/+18°C (5)	5.18	4.88	4.88	4.75	3.96
Cooling output at +35°C/+7°C (5)	kW 4.5	6.5	6.5	10.54	10.37
EER - Air conditioning coefficient of performance at +35°C/+7°C (5)	3.6	2.83	2.79	2.77	2.89
Nominal water flow rate at ΔT = 5 K	m³/h 0,79	1.10	1.31	1.96	2.53
Total dynamic head at nominal flow rate at ΔT = 5 K	mbar 670	520	340	250	-
Power supply voltage of the outdoor unit	- MR - TR	√ 230 V single-phase	230 V single-phase	230 V single-phase	230 V single-phase
Curved circuit breaker protection C outdoor unit	- MR - TR	A 16	16	16	32 16 16
DHW tank capacity	litre 177	177	177	177	177
Refrigerant fluid R 32	kg 1.2	1.2	1.2	-	-
Refrigerant fluid R410A	kg -	-	-	4.6	4.6
CO ₂ equivalent	tonne 0.81	0.81	0.81	9.6	9.6
Refrigerant connection (liquid-gas)	pouce 1/4-1/2	1/4-1/2	1/4-1/2	3/8-5/8	3/8-5/8
Max. pre-loaded length	m 10	10	10	10	10
Length min - max **	m 5-30	5-30	5-30	2-75	2-75
Weight of outdoor unit without charge	- MR - TR	kg 54	54	54	118 130 130
Weight of indoor module without charge in DHW tank	kg 32	32	32	140	140

* Values certified according directives n°813/2013

** Max height difference 30 m for all models

*** Values given as an indication

(1) Heating mode: outside air temperature/water temperature at outlet, performance in accordance with EN 14511-2

(2) Draw-off cycle M in accordance with EN 16147

(3) Test performed in accordance with standard EN 12102-1

(4) At 1 m in a free field (5 m for the outdoor unit)

(5) Air conditioning mode: outdoor air temperature/water temperature at the outlet, performance according to EN 14511-2.

MODEL	ALEZIO S V200 R32			ALEZIO S ...V200 R410A	
	4 kW	6 kW	8 kW	11 kW	16 kW
ALEZIO S V200 ... MR/EM (electrical back-up / monophase)	Ref 7790396	7790400	7790402	7694530	7694534
ALEZIO S V200/-TR/E (electrical back-up / triphase)	Ref -	-	-	7694532	7694536
ALEZIO S V200 ... MR/H (hydraulic back-up / monophase)	Ref 7790394	7790398	7790401	7694529	7694533
ALEZIO S V200/-TR/H (hydraulic back-up / triphase)	Ref -	-	-	7694531	7694535

OPTIONS

FOR AIR/WATER SPLIT INVERTER HEAT PUMP ALEZIO S V200

ALL OPTIONS EXCEPT CONTROL UNITS

ACCESSORIES

	PACKAGE	REF
Wall bracket + antivibratil studs		
• AWHPR 4, 6 and 8 MR...	EH95	100011222
• AWHP 11 to 16 MR/TR...	EH250	100018409
Floor installation base AWHP	EH112	100012533
Floor installation rubber base 600 mm	EH879	7694974
Refrigeration connection:		
• flexibles 5/8" 3/8" - length 2,3 m	EH978	7726775
• PE 1/2" 1/4" - length 10 m	EH142	100015476
• PE 5/8" 3/8" - length 5 m	EH114	100012535
• PE 5/8" 3/8" - length 10m	EH115	100012536
• PE 5/8" 3/8" - length 20 m	EH116	100012537
Buffer tank B 80 T (80 l)	EH85	100008841
Buffer tank B 150 T (150 l)	EH60	100004415
Connecting kit with 3-way valve, pump with energy efficiency index EEI<0.23, (incl. flow sensor and magnetic sieve filter)	EH858	7657050
Insulation set for air conditioning mode	EH859	7677244
Silencer kit for outside module (wiring)	EH572	7636899
Condensate draining kit:		
• AWHPR 4, 6 and 8 MR	EH982	7727910
• AWHP 11 and 16 MR/TR	EH981	7727908

ACCESSORIES

	PACKAGE	REF
Lift pump	EH860	7687189
Differential by-pass valve	HK150	7746242
Decoupling cylinder 25 l	HK146	7746192
2nd circuit hydraulic kit V3V external	HK152	7746307
Connection frame Hydraulink:		
• right 1 circuit	HK154	7746412
• right 2 circuits	HK155	7746415
• left 1 circuit	HK156	7746417
• left 2 circuits	HK157	7746419



DHW PRODUCTION

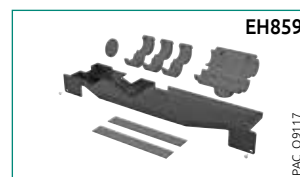
Integrated into MIV-S V200

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Circuit type	DHW	direct	valve	direct + valve	direct + decoupled valve
Alezio S V200	as standard	as standard (1)	EH862	EH862 + EH858	EH862 + HK152 + HK146
Alezio S V200 R32	as standard	as standard (1)	HK378	HK378 + EH858	HK378 + HK152 + HK146

(1) Can be completed in choice by a remote control: package AD337, AD338, AD140 or AD324



CONTROL UNITS

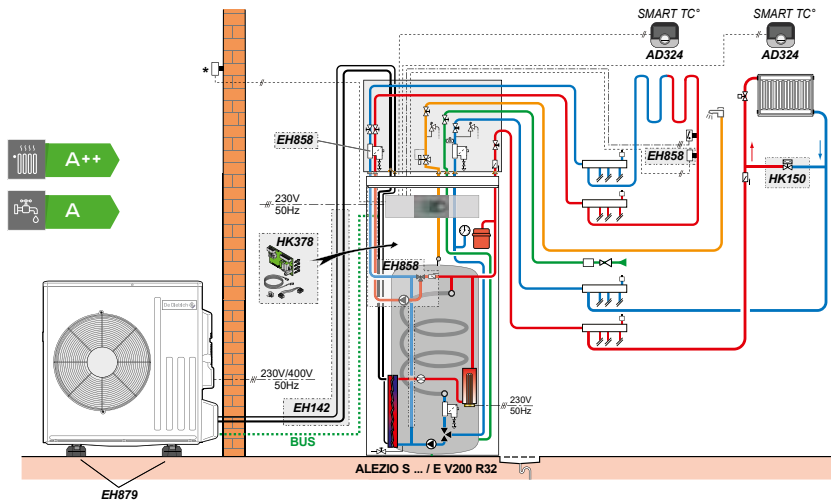
	PACKAGE	REF
Room thermostat:		
• Non-programmable room thermostat (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
• Programmable (wired 230V)	AD345	7774421
Connected room thermostat:		
• SMART TC [®] , R-BUS (wire)	AD324	7691375
• SMART TC [®] RF (wireless)	AD341	7691377
• SMART TC [®] RF (wireless) for 2 nd circuit	AD342	7765144
Sensor:		
• Humidity sensor set (0-10 V)	HZ64	7622433
• Hygro sensor kit for cooling (On-Off)	HK27	100019114
• Sensor for mixing valve	AD199	88017017
• Outside sensor (wireless) only in combination with the AD341*	AD346	7776874
Direct underfloor heating cable pack	HA255	7624902
Silencer for R410A outside module	EH572	7636899
Mixing circuit regulation kit MIV-S V200 R410A	EH862	7689751
Mixing circuit regulation kit MIV-S V200 R32	HK378	7785338

* need to order the connected room sensor AD341

EXAMPLE OF INSTALLATION

FOR AIR/WATER HEAT PUMP ALEZIO S V200

Alezio S V200 ALEZIO S 8 MR/EM V200 renovation in an existing home



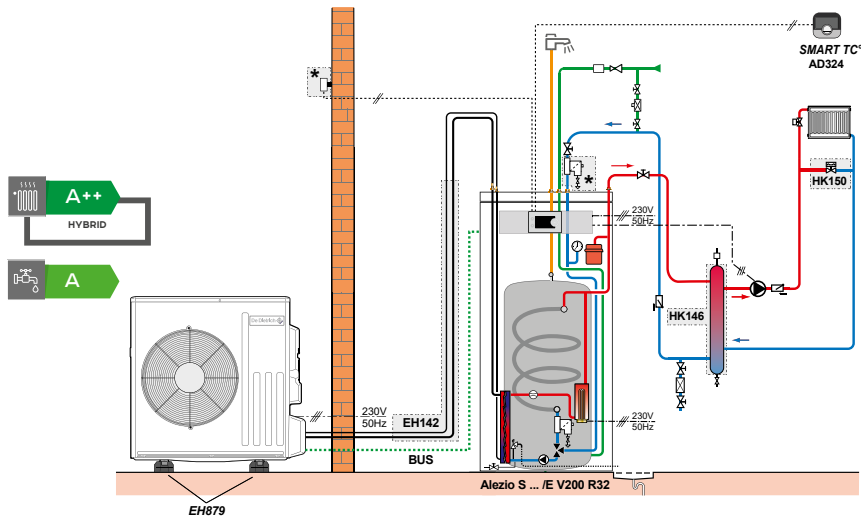
- with 1 decoupled circuit

* Part of the delivery

DESCRIPTION

	PACKAGE	REF
Heat pump ALEZIO S 8 MR/EM V200	-	7692996
Magnetic sieve filters		as standard
Decoupling cylinder 25 l	HK146	7746192
Connected room thermostat SMART TC° (wire)	AD324	7691375
Options		
- Refrigeration connection 5/8" - 3/8", length 10 m	EH115	100012536
- Rubber floor installation base 600 mm	EH879	7694974
- Differential by-pass valve	HK150	7746242

Alezio S V200 ALEZIO S 11 MR/H V200 As backup of an existing oil boiler



- with 1 radiator circuit
- 1 existing boiler

* Part of the delivery

DESCRIPTION

	PACKAGE	REF
Heat pump ALEZIO S 11 MR/H V200	-	7692997
Magnetic sieve filters		as standard
Connected room thermostat SMART TC° (wire)	AD324	7691375
CFU 22 boiler	MY727	7730756
Options		
- Refrigeration connection 5/8" - 3/8", length 5 m	EH114	100012535
- Rubber floor installation base 600 mm	EH879	7694974
- Differential by-pass valve	HK150	7746242

HEAT PUMP

REVERSIBLE AIR/WATER HEAT PUMPS "SPLIT INVERTER"

ADVANCE



up to
A++

HPI-S from 4.6 to 24.4 kW



point

DIEMATIC Evolution control system
Optimal comfort over the seasons
Max water flow temperature 60°C
40 Litres Integrated decoupling cylinder
Multi circuits management

The reversible air/water heat pump consists of an indoor module MIT-S and an outdoor module

- More energy savings with the multi energy solutions thanks to the integrated hybrid function
- The devices are reversible for cooling by floor heating systems, air conditioning possible by using fan convectors and "Insulation set" available as accessory
- The outdoor module is equipped with: modulating Scroll compressors, evaporators made of copper pipes and aluminum fins, one or two helicoidal variable speed fans for silent running, anti-surge and output reserve cylinder, electronic expansion valves, dehydrating filter, HP safety pressure switch, Start-up current limitation through Inverter technology
- The indoor module is equipped with DIEMATIC Evolution control panel with programmable electronic control system that operates according to the

outside temperature, communication with outdoor Unit through BUS, condenser made of a stainless steel plate exchanger, 40 liter decoupling cylinder, heating pump with energy efficiency index EEI < 0.2, a sludge separator with filter and magnet, 10-litre expansion vessel, electronic manometer, safety valve, automatic air vent, flow rate controller, isolating valve with filter

- Cascade possible until 8 devices
- The indoor Unit is available in 2 versions:
 - MIT-S / E: with integrated electrical back-up in 2 kW or 6 kW single-phase, 4 kW or 12 kW in three phases (cannot be installed without the heat pump)
 - MIT-S / H: with hydraulic auxiliary heating
- Outside sensor delivered with indoor module
- Packaging: 2 or 3 packages depending on execution

OPTIONS: see following pages

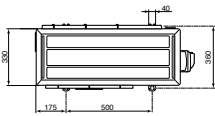


INTEGRATED DECOUPLING CYLINDER (40 L)
PATENTED WITH VORTEX EFFECT

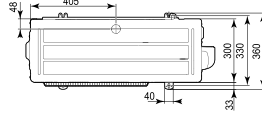
- Keep the stratification in the cylinder
- Increase the performances

MAIN DIMENSIONS (mm and inches)

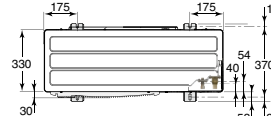
AWHP 4.5 MR (7656794 - EH616)



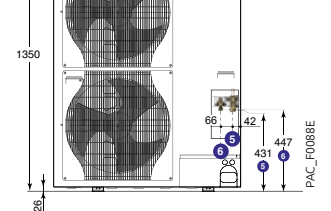
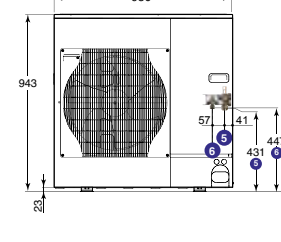
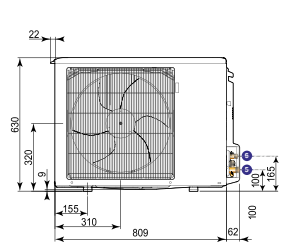
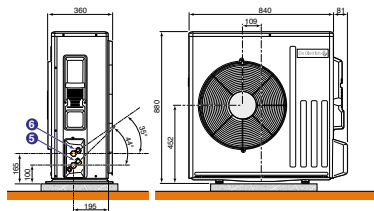
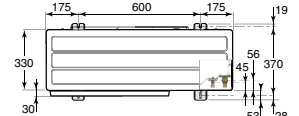
AWHP 6 MR-3 (7668016 - EH672)



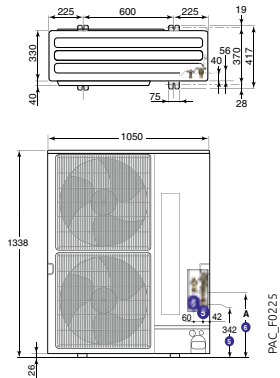
AWHP 8 MR-2 (7609926 - EH381)



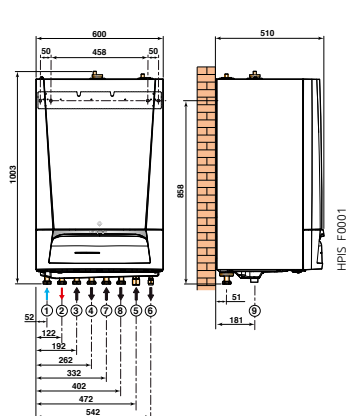
AWHP 11 and 16 TR/MR-2



AWHP 22 and 27 TR-2



MIT-S



CONTROL PANEL
DIEMATIC EVOLUTION



- Return/Flow 3-way valve circuit G 1" (with HK21 package: Internal 3-way valve set or with HK22 package: Adaptation kit for external 3-way valve)
- Direct circuit return G 1"
- Direct circuit flow G 1"
- Gas refrigeration connection; see below
- Refrigerant fluid connection: see below
- Connection to boiler flow Ø G 1" (MIT-S/H only)
- Connection to boiler return Ø G 1" (MIT-S/H only)
- Condensates drain Ø 34 mm ext. (for PVC pipe Ø 40 mm)

	Modell	⑤ Gas refrigeration connection*	⑥ Refrigerant fluid connection
Outdoor module AWHP ... MR/TR	4.5 and 6	1/2" flare + For connection 1/2" - 5/8" delivered:	1/4" flare + For connection 1/4" - 3/8" delivered
	8 to 16	5/8" flare	3/8" flare
	22	3/4" flare + For connection 3/4" - 1" to solder delivered:	3/8" flare + For connection 3/8" - 1/2" delivered
Indoor module MIT-S Evolution	27	3/4" flare + For connection 3/4" - 1" to solder delivered:	1/2" flare
	4.5 to 16 kW 22 and 27 kW	5/8" flare + For connection 3/4" - 1" to solder delivered:	3/8" flare 1/2" flare

* For 22 kW and 27 kW models, if the gas connection is 3/4" instead of of 1", then the distance is limited to 20 m and the cooling capacity reduced up to 80% (at 20 m) of rated power.

HPI S	A (mm)
22 TR-2	450
27 TR-2	424

TECHNICAL SPECIFICATIONS

Use limit temperature in heating mode:
 Water: + 18°C/+ 60°C (+ 18°C/+ 55°C for HPI 4.5 kW)
 Outside air: - 20°C/+ 35°C (except 4.5 and 6 MR: - 15°C)

Heating circuit:
 Max. operating pressure: 3 bar
 Max. operating temperature: 95°C with (.../H) and 75°C with (.../E)

Use limit temperature in cooling mode:
 Water: + 18°C/+ 25°C (cooling);
 + 7°C/+ 25°C (Air conditioning with options EH811 and HK25)
 Outside air: -5°C/+ 46°C

MODELL

	HPI-S	4.5 MR	6 MR	8 MR	11 MR	16 MR	-	-
		-	-	-	11 TR	16 TR	22 TR	27 TR
SEASONAL PERFORMANCES								
Energy class in heating ERP (35°C)		A+++	A+++	A+++	A+++	A+++	A++	A++
Energy class in heating ERP (55°C)		A++	A++	A++	A++	A+	A+	A+
SCOP (35°C/55°C)		4.80/3.42	4.48/3.20	4.52/3.29	4.54/3.20	4.45/3.10	3.89/2.92	3.86/2.87
Seasonal space heating energy efficiency under average temperature (35°C/55°C) *	%	189/134	176/125	178/129	178/125	175/121	153/114	151/112
Seasonal space heating energy efficiency under average temperature (35°C/55°C) (with outdoor sensor supplied as standard)	%	191/136	178/127	180/131	180/127	177/123	155/116	153/114
CERTIFIED THERMAL PERFORMANCE*** (different dimensioning values: see pages 34 and 35)								
Heat output at +7°C/+35°C/ Pmax (1)	kW	4.60/7.00	5.87/7.60	8.26/8.96	10.56/14.79	14.19/17.28	21.70/27.69	24.40/30.07
Heating COP at +7°C/+35°C (1)		5.11	4.18	4.27	4.18	4.22	3.96	3.80
Heating output at -7°C/+35°C/ Pmax (1)	kW	2.79/4.40	4.02/5.50	5.60/8.42	8.09/10.59	9.83/12.37	13.81/13.81	13.80/15.32
Heating COP at -7°C/+35°C (1)		3.07	2.56	2.70	2.88	2.75	2.59	2.26
Outdoor module sound power (3)	dB[A]	58	65	65	69	69	77	77
Indoor module sound power (3)	dB[A]	43	43	51	51	51	43	43
TECHNICAL SPECIFICATIONS								
Outdoor module perceived sound level(4)	dB[A]	39	43	43	47	47	55	55
Indoor module perceived sound level(4)	dB[A]	35	35	43	43	43	35	35
Cooling output at +35°C/+18°C (5)	kW	3.8	4.69	7.91	11.16	14.46	17.65	22.2
Cooling COP at +35°C/+18°C (5)		4.32	4.20	4.27	4.75	3.96	3.8	3.8
Cooling output at +35°C/+7°C (5)	kW	4.52	4.50	6.65	10.54	10.37	12.13	14.07
Cooling EER at +35°C/+7°C (5)		2.77	2.71	3.0	2.77	2.89	2.80	2.82
Nominal water flow rate at ΔT = 5 K	m³/h	0.8	1.04	1.47	1.88	2.67	3.80	4.2
Total dynamic head at nominal flow rate at ΔT = 5 K	mbar	650	618	493	393	213	-	-
Power supply voltage of the outdoor unit	- MR - TR	√ 230 V single-phase	230 V single-phase	230 V single-phase	230 V single-phase 400 V tri	230 V single-phase 400 V tri	400 V tri	400 V tri
Curved circuit breaker protection C outdoor unit	A	16	16	25	32	40	25	32
Refrigerant fluid R410A	kg	1.4	1.3	3.2	4.6	4.6	7.1	7.7
CO ₂ equivalent	Tonne	2.92	2.71	6.68	9.6	9.6	14.82	16.08
Max. pre-loaded length	m	7	10	10	10	10	30	30
Length min - max **	m	2-30	2-40	2-40	2-75	2-75	2-80	2-80
Weight of outdoor unit	- MR - TR	54	42	75	118	118	-	-
		-	-	-	130	130	135	141
Weight of indoor module	kg	69.8	69.8	69.8	72.4	72.4	76.4	76.4

* Values certified according directives n°813/2013

** Max height difference 30 m for all models

*** Values given as an indication

(1) Heating mode: outside air temperature/water temperature at outlet, performance in accordance with EN 14511-2

(3) Test performed in accordance with standard EN 12102-1

(4) At 1 m in a free field (5 m for the outdoor unit)

(5) Air conditioning mode: outdoor air temperature/water temperature at the outlet, performance according to EN 14511-2.

MODEL

	HPI-S	4.5 kW	6 kW	8 kW	11 kW	16 kW	22 kW	27 kW
HPI-S.../E MR (with MIT-S/E...; electrical back-up integrated)	Ref	7746954	7746956	7746958	7746960	7746964	-	-
HPI-S.../E TR (with MIT-S/E...; electrical back-up integrated; tri)	Ref	-	-	-	7746962	7746966	7746968	7746970
HPI-S.../H MR (with MIT-S/H...; hydraulic back-up)	Ref	7746953	7746955	7746957	7746959	7746963	-	-
HPI-S.../E TR (with MIT-S/H...; hydraulic back-up; tri)	Ref	-	-	-	7746961	7746965	7746967	7746969

OPTIONS

FOR AIR/WATER SPLIT INVERTER HEAT PUMPS HPI-S

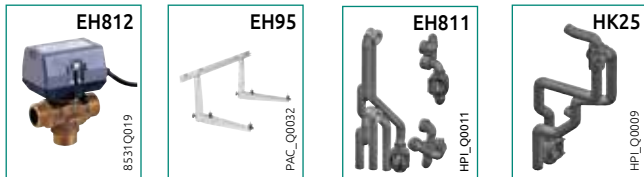
ALL OPTIONS EXCEPT CONTROL UNITS

OPTIONS

	PACKAGE	REF.
Wall bracket + antivibration studs for HPI 6 and 8 MR-2	EH95	100011222
Wall bracket + antivibration studs for HPI 11 to 27 MR/TR-2	EH250	100018409
Rubber floor installation base 600 mm	EH879	7694974
HPI floor installation base	EH112	100012533
Autofill Set	EH726	7681480
Differential by-pass valve	HK150	7746242
Refrigeration connection 5/8" - 3/8":		
• length 5 m	EH114	100012535
• length 10 m	EH115	100012536
• length 20 m	EH116	100012537
Refrigeration connection 1/2" - 1/4" (length 10m)	EH142	100015476
Buffer tank B 80 T (80 l)	EH85	100008841
Buffer tank B 150 T (150 l)	EH60	100004415
Silencer kit for outside module	EH829	7688755
FERNOX TF1 Filter	EH896	100020045
Condensate draining kit:		
• AWHP 4.5 and 6 MR	EH982	7727910
• AWHP 8 to 16 MR/TR	EH981	7727908

FOR AIR-CONDITIONING BY FAN CONVECTORS

	PACKAGE	REF.
Insulation set in air-conditioning mode for internal 3-way valve kit (HK21)	HK25	100018411
Insulation set for air conditioning mode MIT-S/M	EH811	7682396



HYDRAULIC SETS

	PACKAGE	REF.
Internal 3-way valve kit with flow sensor	HK21	100017830
Adaptation kit for external 3-way valve	HK22	100017832
Hydraulic module with a high performance energy pump, EEI < 0.23:		
• for 1 direct circuit	EA143	100020167
• for 1 circuit with valve	EA144	100020168
Insulated collector for 2/3 modules	EA140	100020164
Set of consoles for 1 hydraulic module	EA142	100020166
Set of console for collector	EA141	100020165

DHW PRODUCTION

	PACKAGE	REF.
Heating/DHW reversal valve	EH812	7684175
Hydraulic connection kit heat pump/DHW calorifier	EH149	100015468
BPB 150 DHW calorifier	EC609	100018093
BPB 200 DHW calorifier	EC610	100018094
BPB 300 DHW calorifier	EC611	100018095
BPB 401 DHW calorifier	EC790	7682199
BPB 501 DHW calorifier	EC795	7682313
BEPC 300 DHW calorifier	ER615	7620661



COMBINATIONS HEAT PUMP HPI-S /DHW CALORIFIERS RECOMMENDED BPB/BEPC

	CAPACITY (L)	COIL EXCHANGE SURFACE (m²)	Q _{pr} (KWh/24 h)	HPI S					
				6 MR	8 MR	11 MR/TR	16 MR/TR	22 TR	27 TR
BPB 150	150	0.84	1.1	●	●	●	○	○	○
BPB 200	200	1.20	1.3	●	●	●	●	○	○
BPB 300	300	1.70	1.6	○	○	●	●	●	●
BPB 401	400	2.20	2.0	○	○	○	○	●	●
BPB 501	500	3.10	2.2	○	○	○	○	●	●
BEPC 300	300	2.5	2.2	●	●	●	●	●	●

● Combination recommended ○ Combination not recommended

Note: other characteristics for BPB calorifiers see chapter 8 or BEPC see page 36

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Circuit type	DHW	direct	direct + 1 valve		direct + 2 valves		direct + 3 valves	
			Integrated	External				
DIEMATIC Evolution control pane (1) (2)	1 x AD212	as standard	-	1 x AD199	2 x AD199	3 x AD199 + 1 x AD249		
	EH812	as standard	HK21	HK22	HK22 EA141 - EA140 2 x EA144 + 2 x EA142	HK22 EA141 - EA140 3 x EA144 + 3 x EA142		

(1) Each of the circuits "heating" can be completed in choice by a remote control AD324, AD338, AD140 or AD337 (2) Cascade of 8 HP possible

CONTROL UNITS

	PACKAGE	REF.		PACKAGE	REF.
Room thermostat:			Sensor:		
• Non-programmable room thermostat (wire)	AD140	88017859	• Sensor for mixing valver (2.5 m)	AD199	88017017
• Programmable (wired with battery)	AD337	7768817	• DHW sensor	AD212	100000030
• Programmable (wireless)	AD338	7768818	• Sensor for storage tank	AD250	100013305
Connected room thermostat:			• Outside sensor (wireless) only in combination with the AD341*	AD346	7776874
• SMART TC°, R-BUS (wire)	AD324	7691375	Communication gateway GTW08 L-BUS-ModBus	AD332	7721982
• SMART TC° RF (wireless)	AD341	7691377	Electrical connection kit for DHW backup	EH904	7708345
• SMART TC° RF (wireless) for 2 nd circuit*	AD342	7765144	Direct underfloor heating cable pack	HA255	7624902
S-BUS cable with plug:			PCB + sensor for mixing valve circuit	AD249	100013304
• 1.5 m	AD308	7663618	Humidity sensor set (0-10 V)	HZ64	7622433
• 12 m	AD309	7663561	Hygro sensor kit for cooling (On-Off)	HK27	100019114
• 20 m	AD310	7663619			

* need to order the connected room sensor AD341

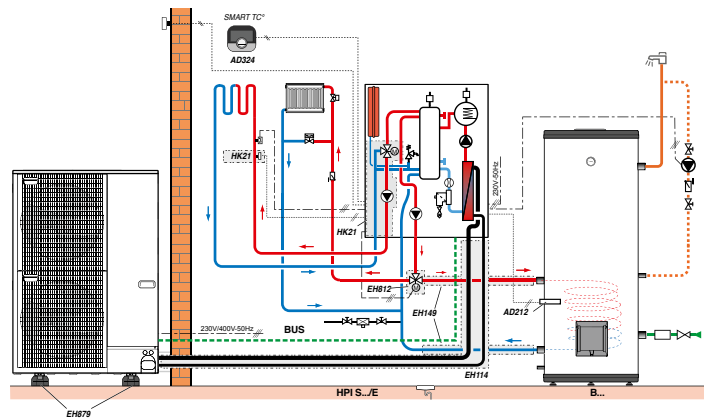
EXAMPLES OF INSTALLATION

FOR AIR/WATER HEAT PUMPS HPI-S

HPI-S HPI-S 11 MR/EM



- 1 direct circuit
- 1 circuit with mixing valve
- 1 DHW calorifier



DESCRIPTION

Heat pump HPI-S 11 MR/EM

Magnetic sieve filter

Internal 3-way valve kit with flow sensor

DHW calorifier BPB 300

Heating/DHW reversal valve

Hydraulic connection kit heat pump HPI/DHW calorifier

DHW temperatur sensor

Options

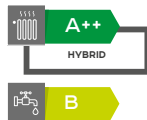
- Connected room thermostat SMART TC° (wire)
- Refrigeration connection 5/8" - 3/8", length 5m
- Floor installation base AWHP
- Differential by-pass valve

PACKAGE

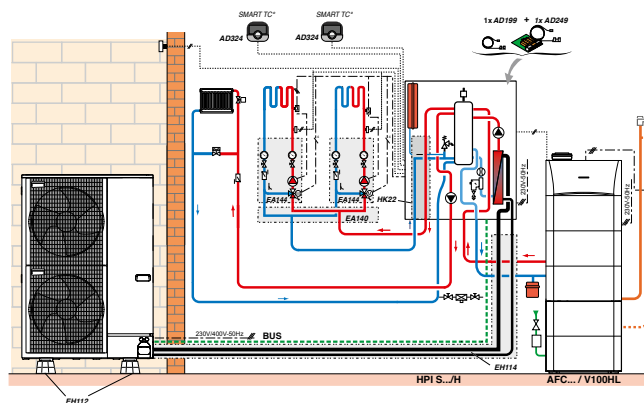
REF

Heat pump HPI-S 11 MR/EM	-	7746960
Magnetic sieve filter	-	as standard
Internal 3-way valve kit with flow sensor	HK21	100017830
DHW calorifier BPB 300	EC611	100018095
Heating/DHW reversal valve	EH812	7684175
Hydraulic connection kit heat pump HPI/DHW calorifier	EH149	100015468
DHW temperatur sensor	AD212	100000030
Options		
- Connected room thermostat SMART TC° (wire)	AD324	7691375
- Refrigeration connection 5/8" - 3/8", length 5m	EH114	100012535
- Floor installation base AWHP	EH879	7694974
- Differential by-pass valve	HK150	7746242

HPI-S (HYBRID SOLUTION) HPI-S 16 MR/H



- 1 direct circuit
- 2 circuits with mixing valve
- 1 circuit with boiler DHW tank back-up



DESCRIPTION

Heat pump HPI-S 16 MR/H

Magnetic sieve filter

Adaptation kit for external 3-way valve

Boiler AFC 18

Expansion vessel 18 l

Boiler/BS100H calorifier connecting pipes + DHW sensor

100 HL calorifier + DHW temperatur sensor

Collector 2/3 moduls

2 x hydraulic module for 1 circuit with valve with pump (EEI < 0.23)

Set of console for collector

Sensor for mixing valver (2.5 m)

PCB + sensor for mixing valve

Options

- 2 x Connected room thermostat SMART TC° (wire)
- Refrigeration connection PE 5/8" 3/8" - length 5m

PACKAGE

REF

Heat pump HPI-S 16 MR/H	-	7746963
Magnetic sieve filter	-	as standard
Adaptation kit for external 3-way valve	HK22	100017832
Boiler AFC 18	MV1	100016265
Expansion vessel 18 l	MV4	100016432
Boiler/BS100H calorifier connecting pipes + DHW sensor	MV34	7611211
100 HL calorifier + DHW temperatur sensor	ER225	100016430
Collector 2/3 moduls	EA140	100020164
2 x hydraulic module for 1 circuit with valve with pump (EEI < 0.23)	2 x EA144	100020168
Set of console for collector	EA141	100020165
Sensor for mixing valver (2.5 m)	AD199	88017017
PCB + sensor for mixing valve	AD249	100013304
Options		
- 2 x Connected room thermostat SMART TC° (wire)	2 x AD324	7691375
- Refrigeration connection PE 5/8" 3/8" - length 5m	EH114	100012535

TECHNICAL SPECIFICATIONS

Use limit temperature in heating mode:

- Water: + 18°C/+ 60°C
- Outside air: - 20°C/+ 35°C

Heating circuit:

- Max. operating pressure: 3 bar
- Max. operating temperature: 95°C with (.../H) and 75°C with (.../E)

Use limit temperature in cooling mode:

- Water: + 18°C/+ 25°C, + 7°C/+ 25°C with options EH811 and HK25
- Outside air: + 7°C/+ 46°C

MODEL

	HPI-M	6 MR	8 MR	11 MR	11 TR
SEASONAL PERFORMANCES					
Energy efficiency class (SEE) (heating) (35°C)		A+++	A++	A++	A++
Energy efficiency class (SEE) (heating) (55°C)		A++	A++	A++	A++
SCOP (35°C/55°C)		4.67/3.30	4.35/3.50	4.34/3.40	4.29/3.3
Seasonal space heating energy efficiency under average temperature (35°C/55°C) *	%	184/129	171/137	170/133	169/132
Seasonal space heating energy efficiency under average temperature (35°C/55°C) (with outdoor sensor supplied as standard)	%	186/131	173/139	172/135	171/134
CERTIFIED THERMAL PERFORMANCE** (different dimensioning values: see page 35)					
Heat output at +7°C/+35°C / Pmax (1)	kW	6.00/10.50	9.00/10.50	11.20/13.50	11.20/13.50
Heating COP at +7°C/+35°C (1)		4.83	4.51	4.54	4.54
Heating output at -7°C/+35°C / Pmax (1)	kW	6.00/7.40	7.50/8.30	9.00/10.40	9.00/10.40
Heating COP at -7°C/+35°C (1)		3.11	2.69	3.27	3.27
Outdoor module sound power (3)	dB[A]	58	58	60	60
Indoor module sound power (3)	dB[A]	40	40	40	40
TECHNICAL SPECIFICATIONS					
Outdoor module perceived sound level(4)	dB[A]	36	36	38	38
Indoor module perceived sound level(4)	dB[A]	32	32	32	32
Cooling output at +35°C/+18°C (5)	kW	6	7.5	10	10
Cooling COP at +35°C/+18°C (5)		4.26	4.42	4.74	4.74
Nominal water flow rate at ΔT = 5 K	m³/h	1.03	1.55	1.93	1.93
Total dynamic head at nominal flow rate at ΔT = 5 K	mbar	650	440	250	250
Maximum hydraulic connection distance	m	20	20	20	20
Connection diameter	pouce	1"	1"	1"	1"
Power supply voltage of the outdoor unit	V	230 V single-phase	230 V single-phase	230 V single-phase	400 V tri
Max electrical Power	kW	13	17	29.5	13
Start-up amperage	A	9	9	12	5
Curved circuit breaker protection C outdoor unit *	A	16	25	32	16
Power regulation mode (compressor)		variable speed	variable speed	variable speed	variable speed
Soft starter		No	No	No	No
Refrigerant fluid R410A	kg	2.4	2.4	3.3	3.3
CO ₂ equivalent	tonne	5.01	5.01	6.89	6.89
Weight of outdoor unit without charge	kg	97	97	118	118
Weight of indoor module without charge (tank) (version /H - Version /E)	kg	50 - 57	50 - 57	50 - 57	50 - 57

* Values certified according directives n°813/2013

** Values given as an indication

(1) Heating mode: outside air temperature/water temperature at outlet, performance in accordance with EN 14511-2 /Max. power without back-up: value to be used for sizing

(3) Test performed in accordance with standard EN 12102-1

(4) At 1 m in a free field (5 m for the outdoor unit)

(5) Air conditioning mode: outdoor air temperature/water temperature at the outlet, performance according to EN 14511-2.

MODEL

	HPI-M	6 kW	8 kW	11 kW
HPI-M... MR (electrical back-up via integrated immersion heater)	Ref	7746621	7746623	7746627
HPI-M... TR (electrical back-up via integrated immersion heater)	Ref	-	-	7746629
HPI-M... MR (hydraulic back-up via boiler or no back-up)	Ref	7746577	7746622	7746626
HPI-M... TR (hydraulic back-up via boiler or no back-up)	Ref	-	-	7746628

OPTIONS

FOR AIR/WATER HEAT PUMPS HPI-M "MONOBLOC INVERTER"

ALL OPTIONS EXCEPT CONTROL UNITS

ACCESSORIES

	PACKAGE	REF
Floor support kit HPI	EH112	100012533
Floor installation rubber base 600 mm	EH879	7694974
Buffer tank B 80 T (80 l)	EH85	100008841
Buffer tank B 150 T (150 l)	EH60	100004415
FERNOX TF1 Filter	EH896	100020045
Auto Fill set	EH726	7681480
Differential by-pass valve	HK150	7746242

FOR AIR-CONDITIONING BY FANCOILS

	PACKAGE	REF
Insulation set in air-conditioning mode for internal 3-way valve kit (HK21)	HK25	100018411
Insulation set for air conditioning mode MIT-S/M	EH811	7682396

HYDRAULIC SETS

	PACKAGE	REF
Internal 3-way valve kit with flow sensor	HK21	100017830
Adaptation kit for external 3-way valve	HK22	100017832
Hydraulic module with a high performance energy pump, EEI < 0.23:		
• for 1 direct circuit	EA143	100020167
• for 1 circuit with valve	EA144	100020168
Insulated collector for 2/3 modules	EA140	100020164
Set of consoles for 1 hydraulic module	EA142	100020166
Set of consoles for collector	EA141	100020165
Hydraulic connection kit	EH19	100001369

DHW PRODUCTION

	PACKAGE	REF
Heating/DHW reversal valve	EH812	7684175
Hydraulic connection kit heat pump HPI/DHW calorifier	EH149	100015468
BPB 150 DHW calorifier	EC609	100018093
BPB 200 DHW calorifier	EC610	100018094
BPB 300 DHW calorifier	EC611	100018095
BEPC 300 DHW calorifier	ER615	7620661

COMBINATIONS HPI/ DHW CALORIFIER RECOMMENDED

CAPACITY (L)	COIL EXCHANGE SURFACE (m ²)	Q _{pr} (KWh/24 h)	HPI-M		
			6 MR	8 MR	11 MR
BPB 150	150	0.84	●	●	●
BPB 200	200	1.20	●	●	●
BPB 300	300	1.70	○	○	●
BEPC 300	300	2.5	●	●	●

● Combination recommended ○ Combination not recommended

Note: other characteristics for BPB calorifiers see chapter 8 or BEPC see page 36

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

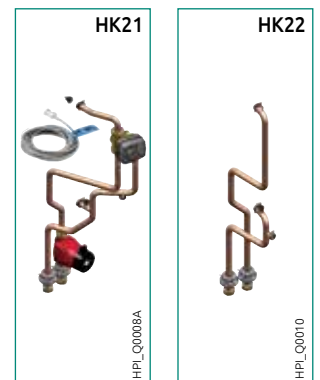
Circuit type	DHW		direct		direct + 1 valve		direct + 2 x valves		direct + 3 x valves	
	Integrated	External	Integrated	External	Integrated	External	Integrated	External	Integrated	External
DIEMATIC Evolution Control pane (1) (2)	1 x AD212		as standard		-		1 x AD199		2 x AD199	
	EH812		as standard		HK21		HK22		HK22 EA141 - EA140 2 x EA144 + 2 x EA142	
HPI-M	3 x AD199 + 1 x AD249		HK22 EA141 - EA140 3 x EA144 + 3 x EA142							

((1) Each of the circuits "heating" can be completed in choice by a remote control AD324, AD338, AD140 or AD337 (2) Cascade of 8 HP possible

CONTROL UNITS

	PACKAGE	REF		PACKAGE	REF
Room thermostat:			Communication gateway GTW08 L-BUS-ModBus	AD332	7721982
• Non-programmable room thermostat (wire)	AD140	88017859	Electrical connection kit for DHW backup	EH904	7708345
• Programmable (wired with battery)	AD337	7768817	Direct underfloor heating cable pack	HA255	7624902
• Programmable (wireless)	AD338	7768818	Silencer for outside module MIT	EH829	7688755
Connected room thermostat:			PCB + sensor for mixing valve circuit	AD249	100013304
• SMART TC [®] , R-BUS (wire)	AD324	7691375	Humidity sensor set (0-10 V)	HZ64	7622433
• SMART TC [®] RF (wireless)	AD341	7691377	Hygro sensor kit for cooling (On-Off)	HK27	100019114
• SMART TC [®] RF (wireless) for 2 nd circuit*	AD342	7765144			
Sensor:					
• Sensor for mixing valver (2.5 m)	AD199	88017017			
• DHW sensor	AD212	100000030			
• Outside sensor (wireless) only in combination with the AD341*	AD346	7776874			

* need to order the connected room sensor AD341



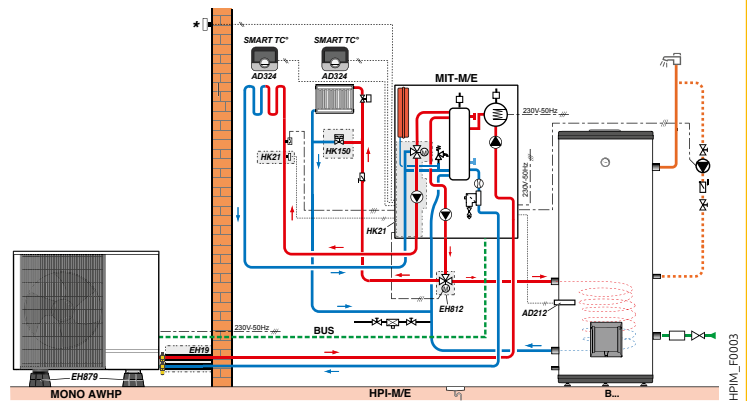
EXAMPLE OF INSTALLATION

FOR AIR/WATER HEAT PUMPS HPI-M "MONOBLOC INVERTER"

HPI-M HPI-M 8 MR



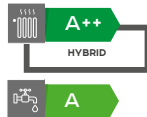
- 1 direct circuit
- 1 circuit with mixing valve
- 1 DHW calorifier



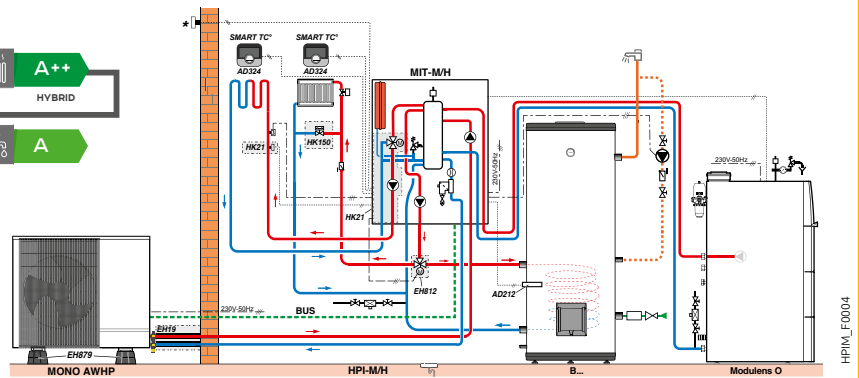
DESCRIPTION

	PACKAGE	REF
Heat pump HPI-M 8 MR/E	-	7746623
Magnetic sieve filter		as standard
Internal 3-way valve kit with flow sensor	HK21	100017830
BPB 300 DHW calorifier	EC611	100018095
Heating/DHW reversal valve	EH812	7684175
Hydraulic connection kit heat pump HPI/DHW calorifier	EH149	100015468
DHW sensor	AD212	100000030
Options		
- 2 x Connected room thermostats (wired)	2 x AD324	7691375
- Hydraulic connection kit	EH19	100001369
- Rubber floor installation base 600 mm	EH879	7694974
- Differential by-pass valve	HK150	7746242
- 2 x Exogel valves		not provided

HPI-M HPI-M 11 MR



- 1 direct circuit
- 1 circuit with mixing valve
- 1 boiler for back up



DESCRIPTION

	PACKAGE	REF
Heat pump HPI-M 11 MR/H	-	7746626
Magnetic sieve filter		as standard
Adaptation kit for external 3-way valve	HK22	100017832
AFC 18 boiler	-	100016265
BPB 300 DHW calorifier	ER615	7620661
Heating/DHW reversal valve	EH812	7684175
Hydraulic connection kit	EH149	100015468
DHW sensor	AD212	100000030
Internal 3-way valve kit with flow sensor	HK21	100017830
Options		
- 2 x Connected room thermostats (wired)	2 x AD324	7691375
- Hydraulic connection kit	EH19	100001369
- Rubber floor installation base 600 mm	EH879	7694974
- Differential by-pass valve	HK150	7746242
- 2 x Exogel valves		not provided

TABLE OF DATA FOR SIZING

FOR HEAT PUMPS **SPLIT INVERTER R410A**

Models: ALEZIO-S 11-16, ALEZIO-S V200 11-16 and HPI-S 4.5 - 27.

AHWP 4.5 MR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]																		
	AIR CONDITIONING/COOLING				HEATING														
	7		18		25		35		40		45		50		55		60		
	OUTPUT (kW)	EER	OUTPUT (kW)	EER	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	
-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-10	-	-	-	-	3.70	2.76	3.41	2.35	3.30	1.83	3.10	1.74	-	-	-	-	-	-	-
-7	-	-	-	-	4.40	3.24	4.00	2.43	3.90	2.13	3.70	1.88	3.50	1.66	-	-	-	-	-
-2	-	-	-	-	4.70	3.40	4.40	2.64	4.20	2.30	4.00	2.02	3.70	1.70	3.50	1.41	-	-	-
2	-	-	-	-	4.70	3.17	4.50	2.64	4.40	2.37	4.30	2.09	4.15	1.81	4.00	1.53	-	-	-
7	-	-	-	-	7.74	4.70	7.00	3.99	6.63	3.45	6.26	2.91	6.26	2.59	6.26	2.27	-	-	-
12	-	-	-	-	8.96	5.80	7.81	4.44	7.23	3.76	6.66	3.08	6.59	2.76	6.52	2.45	-	-	-
15	-	-	-	-	9.42	6.13	8.29	4.72	7.73	4.01	7.16	3.31	7.05	2.98	6.93	2.65	-	-	-
20	5.3	3.13	7.1	3.54	9.60	6.40	9.10	5.18	8.85	4.57	8.60	3.95	8.40	3.38	8.20	3.20	-	-	-
25	5.3	3.16	7.1	3.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	5.1	2.82	6.8	3.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	4.9	2.48	6.5	2.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AHWP 6 MR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]																		
	AIR CONDITIONING/COOLING				HEATING														
	7		18		25		35		40		45		50		55		60		
	OUTPUT (kW)	EER	OUTPUT (kW)	EER	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	
-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-10	-	-	-	-	5.60	2.97	4.86	2.42	4.49	2.14	4.13	1.87	4.00	1.69	3.87	1.51	-	-	-
-7	-	-	-	-	6.22	3.20	5.50	2.65	5.14	2.38	4.78	2.10	4.63	1.90	4.48	1.70	-	-	-
-2	-	-	-	-	5.70	3.25	5.67	2.83	5.65	2.62	5.63	2.41	5.61	2.19	5.59	1.98	5.58	1.77	-
2	-	-	-	-	7.95	4.72	7.60	3.87	7.43	3.45	7.25	3.02	7.08	2.60	6.90	2.17	6.73	1.75	-
7	-	-	-	-	8.79	5.53	8.58	4.48	8.48	3.95	8.38	3.42	8.17	2.94	7.97	2.46	7.77	1.98	-
12	-	-	-	-	9.29	6.02	9.17	4.84	9.11	4.25	9.05	3.66	8.83	3.14	8.61	2.63	8.39	2.11	-
15	-	-	-	-	10.13	6.83	10.15	5.45	10.16	4.75	10.18	4.06	9.93	3.49	9.68	2.92	9.44	2.35	-
20	4.9	3.48	5.4	5.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	4.9	3.52	5.4	5.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	4.7	3.14	5.2	5.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	4.5	2.76	5	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AHWP 8 MR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]																		
	AIR CONDITIONING/COOLING				HEATING														
	7		18		25		35		40		45		50		55		60		
	OUTPUT (kW)	EER	OUTPUT (kW)	EER	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	
-20	-	-	-	-	-	-	4.52	2.03	4.55	1.86	4.23	1.64	-	-	-	-	-	-	-
-15	-	-	-	-	-	-	5.40	2.35	5.33	2.09	5.25	1.87	3.97	1.28	-	-	-	-	-
-10	-	-	-	-	8.05	2.72	7.69	2.35	7.51	2.11	7.33	1.88	6.82	1.72	6.29	1.56	-	-	-
-7	-	-	-	-	8.93	3.28	8.42	2.77	8.21	2.45	7.99	2.13	7.43	1.94	7.00	1.74	-	-	-
-2	-	-	-	-	10.63	3.30	9.60	2.84	8.94	2.60	8.29	2.37	7.72	2.15	7.14	1.91	6.57	1.65	-
2	-	-	-	-	10.73	4.53	10.22	3.93	9.97	3.54	9.71	3.14	9.49	2.88	9.26	2.59	9.03	2.26	-
7	-	-	-	-	12.72	5.20	12.02	4.62	11.67	4.11	11.32	3.59	11.01	3.26	10.69	2.90	10.38	2.38	-
12	-	-	-	-	13.86	5.51	12.95	4.96	12.50	4.38	12.04	3.80	11.68	3.43	11.31	3.02	10.95	2.50	-
15	-	-	-	-	14.35	5.76	13.45	5.17	13.00	4.56	12.55	3.95	12.20	3.56	11.85	3.15	11.50	2.56	-
20	8.5	3.6	11.3	4.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	8.2	3.26	11	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	7.8	2.89	10.6	3.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	7.3	2.55	10	3.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AHWP 11 MR/TR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]																		
	AIR CONDITIONING/COOLING				HEATING														
	7		18		25		35		40		45		50		55		60		
	OUTPUT (kW)	EER	OUTPUT (kW)	EER	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	
-20	-	-	-	-	-	-	6.87	1.79	6.71	1.64	6.55	1.49	-	-	-	-	-	-	-
-15	-	-	-	-	-	-	8.17	2.16	8.07	1.93	7.96	1.69	7.87	1.52	7.77	1.34	-	-	-
-10	-	-	-	-	9.69	2.97	9.53	2.50	9.44	2.25	9.36	1.98	9.13	1.76	8.90	1.52	-	-	-
-7	-	-	-	-	10.87	3.27	10.59	2.73	10.44	2.45	10.30	2.14	10.00	1.91	9.69	1.62	-	-	-
-2	-	-	-	-	11.98	3.56	11.49	3.16	11.24	2.83	10.99	2.49	10.55	2.19	10.10	1.88	9.36	1.49	-
2	-	-	-	-	15.57	4.48	14.79	4.15	14.40	3.70	14.01	3.24	13.41	2.90	12.80	2.54	12.20	2.07	-
7	-	-	-	-	17.68	5.14	16.84	4.73	16.42	4.20	16.00	3.68	15.35	3.30	14.69	2.91	14.04	2.39	-
12	-	-	-	-	18.66	5.53	17.78	4.98	17.34	4.44	16.90	3.89	16.24	3.51	15.58	3.08	14.92	2.58	-
15	-	-	-	-	19.79	5.87	18.96	5.31	18.55	4.75	18.13	4.19	17.47	3.78	16.81	3.34	16.15	2.97	-
20	10.10	3.78	15.10	4.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9.80	3.50	14.90	4.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9.70	3.22	14.80	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9.10	2.75	14.00	3.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AHWP 16 MR/TR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]																		
	AIR CONDITIONING/COOLING				HEATING														
	7		18		25		35		40		45		50		55		60		
	OUTPUT (kW)	EER	OUTPUT (kW)	EER	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	
-20	-	-	-	-	-	-	8.03	1.74	7.89	1.60	7.75	1.46	-	-	-	-	-	-	-
-15	-	-	-	-	-	-	9.55	2.10	9.49	1.88	9.42	1.66	9.33	1.50	9.23	1.32	-	-	-
-10	-	-	-	-	11.20	2.92	11.13	2.43	11.10	2.19	11.07	1.94	10.82	1.73	10.57	1.51	-	-	-
-7	-	-	-	-	12.56	3.21	12.37	2.65	12.28	2.38	12.18	2.10	11.85	1.89	11.52	1.66	-	-	-
-2	-	-	-	-	13.84	3.50	13.42	3.07	13.21	2.75	13.00	2.44	12.50	2.16	12.00	1.86	11.15	1.54	-
2	-	-	-	-	17.99	4.40	17.28	4.03	16.93	3.60	16.57	3.18	15.89	2.86	15.21	2.52	14.53	2.13	-
7	-	-	-	-	20.75	5.07	19.84	4.58	19.39	4.09	18.93	3.61	18.18	3.25	17.43	2.87	16.68	2.44	-
12	-	-	-	-	21.96	5.34	20.96	4.83	20.46	4.32	19.96	3.80	19.19	3.43	18.42	3.02	17.65	2.58	-
15	-	-	-	-	23.15	5.64	22.18	5.11	21.70	4.58	21.21	4.04	20.47	3.66	19.73	3.25	18.99	2.80	-
20	13.9	2.93	16.9	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	13.5	2.77	16.9	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	13.4	2.63	17	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	12.5	2.32	16	3.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AHWP 22 TR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]																		
	AIR CONDITIONING/COOLING				HEATING														
	7		18		25		35		40		45		50		55		60		
	OUTPUT (kW)	EER	OUTPUT (kW)	EER	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	
-20	-	-	-	-	-	-	11.24	2.25	10.15	1.99	9.42	1.75	-	-	-	-	-	-	-
-15	-	-	-	-	-	-	11.64	2.37											

TABLE OF DATA FOR SIZING

FOR HEAT PUMPS **SPLIT INVERTER R32** AND **MONOBLOC INVERTER R410A**

Model: STRATEO R32, ALEZIO-S R32 4 to 8, ALEZIO-S V200 R32 4 to 8.



AWHPR 4 MR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]													
	25		35		40		HEATING 45		50		55		60	
	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP
-20	-	-	3.20	2.18	3.00	1.93	-	-	-	-	-	-	-	-
-15	-	-	4.30	2.45	4.10	2.17	3.90	1.89	-	-	-	-	-	-
-10	5.80	3.04	5.40	2.73	5.10	2.41	4.70	2.10	4.30	1.75	3.80	1.41	-	-
-7	6.50	3.22	6.10	2.89	5.70	2.56	5.20	2.23	4.60	1.84	4.00	1.45	-	-
2	6.00	3.45	5.90	3.14	5.80	2.83	5.70	2.52	5.60	2.20	5.50	1.89	5.40	1.58
7	7.30	4.89	7.10	4.38	7.00	3.87	6.80	3.36	6.40	2.83	5.90	2.30	5.50	1.77
12	8.70	5.94	8.50	5.25	8.30	4.56	8.20	3.87	7.70	3.30	7.20	2.72	6.70	2.15
15	7.70	6.56	7.50	5.77	7.30	4.99	7.10	4.20	6.70	3.56	6.30	2.92	5.90	2.28
20	8.40	7.37	8.20	6.45	8.00	5.54	7.80	4.62	7.40	3.91	6.90	3.20	6.50	2.49

AWHPR 6 MR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]													
	25		35		40		HEATING 45		50		55		60	
	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP
-20	-	-	4.70	2.10	4.60	1.93	-	-	-	-	-	-	-	-
-15	-	-	5.70	2.48	5.50	2.27	5.30	2.06	-	-	-	-	-	-
-10	6.90	2.90	6.70	2.67	6.50	2.45	6.20	2.23	6.10	1.99	5.90	1.75	-	-
-7	7.50	3.03	7.30	2.79	7.10	2.56	6.80	2.33	6.60	2.07	6.40	1.82	-	-
2	6.70	3.69	6.70	3.33	6.60	2.96	6.60	2.60	6.60	2.30	6.60	2.00	6.60	1.70
7	8.90	5.05	8.70	4.50	8.50	3.96	8.30	3.41	8.10	3.00	8.00	2.60	7.80	2.19
12	10.50	5.88	10.20	5.22	9.90	4.56	9.60	3.90	9.40	3.42	9.30	2.94	9.10	2.46
15	9.70	6.46	9.40	5.70	9.10	4.94	8.70	4.18	8.60	3.62	8.40	3.06	8.20	2.50
20	10.60	7.14	10.30	6.27	9.90	5.40	9.50	4.53	9.30	3.91	9.10	3.29	8.90	2.67

AWHPR 8 MR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]													
	25		35		40		HEATING 45		50		55		60	
	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP
-20	-	-	5.00	2.04	4.80	1.87	-	-	-	-	-	-	-	-
-15	-	-	6.00	2.40	5.80	2.20	5.60	2.00	-	-	-	-	-	-
-10	7.30	2.81	7.10	2.59	6.80	2.38	6.60	2.16	6.40	1.93	6.20	1.70	-	-
-7	8.00	2.93	7.70	2.71	7.40	2.48	7.20	2.25	7.00	2.01	6.80	1.76	-	-
2	7.20	3.55	7.10	3.21	7.10	2.88	7.10	2.55	7.10	2.21	7.10	1.86	7.10	1.52
7	9.20	4.95	9.00	4.42	8.80	3.90	8.60	3.37	8.40	3.01	8.20	2.65	8.00	2.29
12	10.90	5.79	10.60	5.14	10.30	4.50	10.00	3.85	9.80	3.43	9.60	3.00	9.50	2.58
15	10.10	6.37	9.80	5.62	9.50	4.88	9.20	4.13	9.00	3.66	8.80	3.18	8.60	2.71
20	11.10	7.02	10.70	6.17	10.30	5.33	10.00	4.48	9.70	3.93	9.50	3.43	9.30	2.91

Model: HPI-M 6 MR, 8MR and 11MR/TR.

MONO AWHP 6 MR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]													
	25		35		40		HEATING 45		50		55		60	
	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP
-20	-	-	4.6	1.9	4.5	1.66	4	1.48	-	-	-	-	-	-
-15	-	-	6.3	2.3	5.6	2.05	5	1.84	-	-	-	-	-	-
-10	8.1	3.01	6.6	2.43	5.9	2.15	5.2	2.1	5.1	1.95	4.7	1.57	-	-
-7	8.5	3.11	7.4	2.7	6.5	2.39	5.9	2.22	5.7	2.07	5.3	1.88	-	-
2	9.7	3.57	9	3.31	8.3	3.03	7.4	2.78	6.8	2.56	6.2	2.24	5.4	2
7	10.9	5.52	10.5	4.35	10.1	3.84	9	3.41	8.3	3.06	7.2	2.81	6.6	2.41
12	11	5.31	10.7	4.37	10.5	3.91	9.6	3.58	8.7	3.28	7.8	2.93	7.1	2.63
15	11.9	5.33	11.5	4.63	11.3	4.16	10.3	3.8	9.2	3.52	8.3	3.18	7.5	2.84
20	13.3	5.37	12.9	5.05	12.4	4.58	10.8	4.21	9.7	3.98	8.8	3.75	8	3.3

MONO AWHP 8 MR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]													
	25		35		40		HEATING 45		50		55		60	
	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP
-20	-	-	4.6	1.9	4.5	1.66	4.5	1.46	-	-	-	-	-	-
-15	-	-	6.7	2.28	6.6	2.02	6.5	1.78	-	-	-	-	-	-
-10	8.1	3.01	7.8	2.37	7.7	2.1	7.6	1.86	7.5	1.83	7.3	1.61	-	-
-7	8.5	3.11	8.3	2.45	8.2	2.17	8.1	2.09	7.9	1.98	7.8	1.84	-	-
2	9.8	3.56	9.7	3.08	9.6	2.81	9.5	2.61	9.3	2.37	9.2	2.16	9	1.96
7	10.9	5.52	10.5	4.35	10.1	3.84	9.8	3.4	9.6	3	9.4	2.65	9.2	2.36
12	11	5.31	10.7	4.37	10.5	3.91	10.2	3.5	10.1	3.12	9.9	2.79	9.7	2.51
15	11.9	5.33	11.5	4.63	11.3	4.16	11.1	3.73	10.9	3.33	10.7	2.98	10.5	2.68
20	13.3	5.37	12.9	5.05	12.7	4.55	12.4	3.98	12.3	3.6	12.1	3.26	12	2.95

MONO AWHP 11 MR/TR

OUTSIDE AIR TEMPERATURE [°C]	WATER OUTLET TEMPERATURE [°C]													
	25		35		40		HEATING 45		50		55		60	
	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP	OUTPUT (kW)	COP
-20	-	-	7	2.6	6.6	2.21	6.5	1.96	-	-	-	-	-	-
-15	-	-	7.6	2.78	7.3	2.41	7	2.08	-	-	-	-	-	-
-10	11	3.8	10.1	2.87	9.7	2.51	9.4	2.2	9.1	1.94	9	1.54	-	-
-7	11.3	4.09	10.4	3.14	10	2.75	9.6	2.41	9.3	2.11	9	1.84	-	-
2	13.1	3.85	12.5	3.08	12.2	2.73	11.9	2.42	11.6	2.14	11.3	1.87	10.9	1.65
7	14.3	5.47	13.5	4.41	13.1	3.87	12.7	3.22	12.2	2.8	11.7	2.43	11.2	2.2
12	14.4	6.06	13.7	5.11	13.3	4.59	13	4.08	12.6	3.59	12.1	3.13	11.7	2.72
15	15.5	5.71	14.8	5.23	14.5	4.79	14.1	4.32	13.6	3.85	13.2	3.39	12.6	2.97
20	17.3	7.21	16.9	6.76	16.5	5.68	16.1	4.8	15.6	4.05	15.1	3.65	14.4	3.27

HEAT PUMP

COMBINED DOMESTIC HOT WATER CALORIFIER FOR HEAT PUMP

ADVANCE



BEPC 300 300 L



Combined DHW calorifier for connection to a heat pump.

- Enamelled steel sheet tank protection by magnesium anode
- Coil-shaped outsized exchanger
- Steatite electrical resistance with integrated thermostat
- CFC-free injected polyurethane from insulation, thickness 50 mm
- Thermometer
- Packaging: 1 package



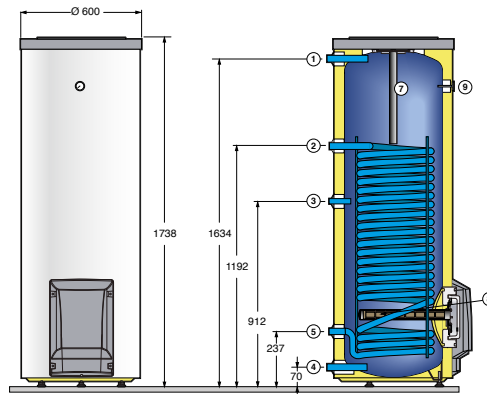
Efficient tank for optimized management of DHW loading

OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

- ① DHW outlet G 1"
- ② Exchanger inlet G 1"
- ③ Circulation G 3/4"
- ④ Domestic cold water inlet G 1"
- ⑤ Exchanger outlet G 1"
- ⑦ Anode
- ⑧ Electrical resistance
- ⑨ Thermometer

G: External cylindrical threading (water tightness by flat gasket)



8980F278C

TECHNICAL SPECIFICATIONS

Max. operating temp.: - primary (exchanger): 110°C
- secondary (tank): 90°C

Max. operating pressure: - primary (exchanger): 10 bar
- secondary (tank): 7 bar

MODEL

BEPC 300

Capacity		l	290
Exchanger capacity		l	16.7
Exchanger surface		m ²	2.5
Intensity: single phase (230 V)		A	13.7
► DHW flow rate with primary temp.at:		m ³ /h	1 2 3
DHW temp.: 45°C	- Temp. inlet primary - Exchanged power	°C	80 80 80
		kW	49.4 67.6 78.6
	- Flow per hour at ΔT = 35 K	l/h	1213 1661 1931
Electrical power		W	3000
«Electric» heating time 15-65°C		h	5.5
Cooling constance		W/K	1.85
Qpr		kWh/24h	2.0
Primary circuit pressure drop at a flow rate of 3 m ³ /h		kPa	21
Shipping weight		kg	110

MODEL

BEPC 300

Ref.

7620661

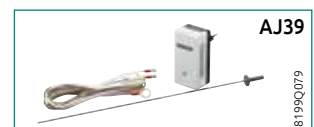
CONTROL UNITS

ACCESSORIES

PACKAGE	REF.
3 way reversal valve with wiring kit	EH84 100009229
Imposed current anode	AJ39 89757753
DHW sensor	AD212 100000030



PAC_Q0020A



8199Q079

HEAT PUMP

WATER (GLYCOL WATER)/WATER REVERSIBLE GROUND SOURCE PUMP

ADVANCE



A++

GSHP

GSHP 5-9-12 MR-E/TR-E, GSHP 15 TR-E, GSHP 19-27 TR from 5.7 to 28 kW



100% French production

point

Product fully equipped up to the GSHP 15TR High performance For all kinds of collection

Water (glycol water)/water heat pump with closed collection loop in the ground by underground collectors (horizontal collection), boring (vertical collection) or draw-off from the groundwater

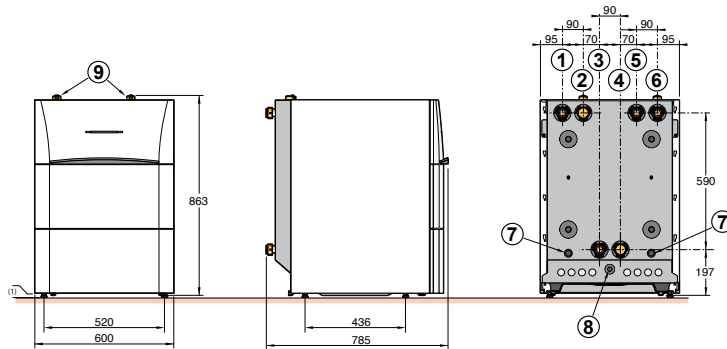
- Reversible for underfloor heating/cooling
- Single -phase power supply for MR, or three-phase for TR
- Unit including:
 - Scroll type compressor with a COP up to 4.5 at 0°C, -3°C/30°C, 35°C
 - 2 oversized stainless steel plate exchanger
 - Electronic regulators, a dehydrating filter, HP/LP safety pressure switch
 - Start-up current limitation
 - Two 10 litres expansion vessels at the primary end (source) and a second secondary end (heating), only on GSHP 5/9/12/15

- 2 circulating pumps with energy efficiency index EEI < 0,23 (primary end and secondary end) only on GSHP 5/9/12/15. Circulating pumps optional on GSHP 19
- Secondary end flow meter and primary end flow detector
- Electronic pressure gauge, safety valve and air vent
- Electric immersion heater back-up pack (optional)
- Noise insulation
- Heating/DHW reversal valve on GSHP 5/9/12/15. (optional on GSHP 19/27, to order separately)
- A control panel fitted with the DIEMATIC iSystem control system, used to manage various parameters in the HP, as well as multi-circuit hot or cold management.
- Packaging: 2 or 3 packages

OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

- ① - GSHP 5/9/12/15: heating flow G 1"
 - GSHP 19/27: heating return G 1" 1/4 (delivered with 2 gate valves and a filter)
- ② - GSHP 5/9/12/15: primary DHW tank flow (if installed) G 1"
 - GSHP 19/27: heating flow G 1" 1/4
- ③ - GSHP 5/9/12/15: heating return G 1" (delivered with 2 gate valves and a filter)
 - GSHP 19/27: plugged
- ④ - GSHP 5/9/12/15: primary DHW tank return (if installed) G 1"
 - GSHP 19/27: plugged
- ⑤ - Geothermal collection circuit flow G 1" 1/4 (delivered with a gate valve equipped with a manometer)
- ⑥ - Geothermal collection circuit return G 1" 1/4 (delivered with 2 gate valves and a filter)
- ⑦ Safety valves outlets (collector side, heating side)
- ⑧ Condensates drain
- ⑨ Automatic air vents (collector side, heating side)
- (1) Feet adjustable from 10 to 30 mm



GSHP_F0004A

TECHNICAL SPECIFICATIONS

Use limit temp. in heating mode:	Use limit temp. in cooling mode:	Heating circuit:	Collector circuit:
- Water: + 7°C/+ 80°C	- Water: + 7°C/+ 25°C (with option ER581)	- Max. operating pressure: 3 bar	- Max. operating pressure: 3 bar
- Collector (source): - 15°C/+ 35°C	- Collector (source): - 15°C/+ 35°C		

MODEL

	GSHP	5 MR-E	5 TR-E	9 MR-E	9 TR-E	12 MR-E	12 TR-E	15 TR-E	19 TR	27 TR
Heating output (1)	kW	5.70	5.70	9.88	9.88	12.66	12.66	17.09	20.40	27.99
Heating COP (1)		4.12	4.12	4.13	4.13	4.09	4.09	4.23	4.04	4.04
Absorbed electrical power (1)	kWe	1.38	1.38	2.39	2.39	3.10	3.10	4.04	5.05	7.25
Heating output (2)	kW	5.39	5.39	9.41	9.41	12.21	12.21	16.35	20.05	26.82
Heating COP (2)		3.31	3.31	3.43	3.43	3.42	3.42	3.53	3.43	3.28
Absorbed electrical power (2)	kWe	1.63	1.63	2.74	2.74	3.57	3.57	4.63	5.84	8.17
Heating output (3)	kW	6.95	6.95	12.13	12.10	15.54	15.54	20.87	26.30	33.00
Heating COP (3)		5.64	5.64	5.52	5.52	5.30	5.30	5.38	-	-
Absorbed electrical power (3)	kWe	1.23	1.23	2.19	2.19	2.93	2.93	3.88	5.12	7.01
Heating output (4)	kW	6.55	6.55	11.68	11.68	14.89	14.89	20.02	25.10	32.10
Heating COP (4)		4.25	4.25	4.37	4.37	4.19	4.19	4.24	-	-
Absorbed electrical power (4)	kWe	1.54	1.54	2.67	2.67	3.55	3.55	4.69	6.11	8.24
* Seasonal space heating energy efficiency	%	136	136	140	140	140	140	145	140	134
* Seasonal space heating energy efficiency (with outdoor sensor)	%	138	138	142	142	142	142	147	142	136
Power supply	V	230 V mono	400 V tri	230 V mono	400 V tri	230 V mono	400 V tri	400 V tri	400 V tri	400 V tri
Max. intensity	A	12.8	4.8	22.8	7.4	27.9	9.7	13	15.3	21.6
Start-up intensity	A	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Sound output	dB(A)	49	49	53	53	52	52	51	53	50
Refrigerant R 410A	kg	1.50	1.50	1.70	1.70	1.80	1.80	2.50	2.54	3.18
CO ₂ equivalent	tonne	3.13	3.13	3.55	3.55	3.76	3.76	5.22	5.30	6.64
Net weight	kg	127	127	143	143	143	143	161	148	162

(1) Performance according to EN 14511-2 in glycol water (30%)/water: 0°C -3°C/30°C - 35°C. (2) Performance according to EN 14511-2 in glycol water (30%)/water: 0°C, -3°C/40°C, 45°C. (3) Performance according to EN 14511-2 in water/water mode: 10°C - 7°C/30°C - 35°C. (4) Performance according to EN 14511-2 in water/water mode: 10°C - 7°C/40°C - 45°C.

* Under average temperature with glycol water/water

MODEL

GSHP	5 MR-E	5 TR-E	9 MR-E	9 TR-E	12 MR-E	12 TR-E	15 TR-E	19 TR	27 TR
Ref.	7612336	7611946	7600538	7612220	7612330	7612245	7611656	7612360	7612590

HEAT PUMP

WATER (GLYCOL WATER)/WATER REVERSIBLE GROUND SOURCE PUMP WITH DHW PRODUCTION  point



GSHP

GSHP.../V 200 GHL from 5.7 to 17.1 kW



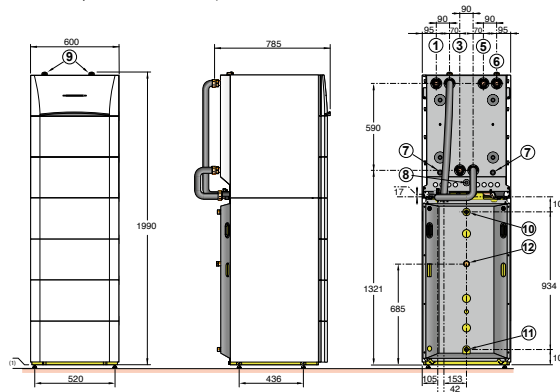
Modular conception
High DHW performance
Titan Active System®

- Enamelled stratification calorifier "High Load" equipped with a plate exchanger combined with a load pump.
- Calorifier positioned under the HP to form a uniform "column"
 - Protection by "Titan Active System®" (anode without consumption of material)

- Boiler/calorifier connecting pipes and DHW sensor included, adjustable feet
- Draining valve
- Packaging: 3 packages

OPTIONS: see following pages

- ① Heating flow G 1"
 - ③ Heating return G 1" (delivered with 2 gate valves and a filter)
 - ⑤ Geothermal collection circuit flow G 1" 1/4 (delivered with a gate valve equipped with a manometer)
 - ⑥ Geothermal collection circuit return G 1" 1/4 (delivered with 2 gate valves and a filter)
 - ⑦ Safety valves outlets (collector side, heating side)
 - ⑧ Condensates drain
 - ⑨ Automatic air vents (collector side, heating side)
 - ⑩ Domestic hot water outlet G 3/4"
 - ⑪ Domestic cold water inlet G 3/4"
 - ⑫ Circulating loop return G 3/4"
- (1) Feet adjustable from 10 to 30 mm



MODEL

GSHP.../V 200 GHL	5 MR	5 TR	9 MR	9 TR	12 MR	12 TR	15 TR
Ref	7638341	7638344	7638346	7638348	7638350	7638352	7638354



GSHP

GSHP.../B 200 GHL from 5.7 to 17.1 kW

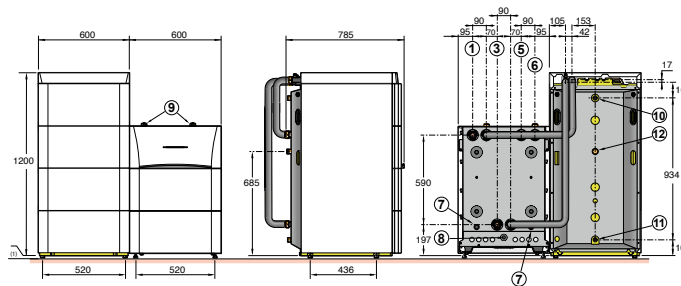


- Enamelled stratification calorifier "High Load" equipped with a plate exchanger combined with a load pump.
- Calorifier positioned to the right or the left of the boiler, with the same aesthetic as the boiler
 - Protection by "Titan Active System®" (anode without consumption of material)

- Boiler/calorifier connecting pipes and DHW sensor included, adjustable feet
- Draining valve
- Packaging: 3 packages

OPTIONS: see following pages

- ① Heating flow G 1"
 - ③ Heating return G 1" (delivered with 2 gate valves and a filter)
 - ⑤ Geothermal collection circuit flow G 1" 1/4 (delivered with a gate valve equipped with a manometer)
 - ⑥ Geothermal collection circuit return G 1" 1/4 (delivered with 2 gate valves and a filter)
 - ⑦ Safety valves outlets (collector side, heating side)
 - ⑧ Condensates drain
 - ⑨ Automatic air vents (collector side, heating side)
 - ⑩ Domestic hot water outlet G 3/4"
 - ⑪ Domestic cold water inlet G 3/4"
 - ⑫ Circulating loop return G 3/4"
- (1) Feet adjustable from 10 to 30 mm



MODEL

GSHP.../B 200 GHL	5 MR	5 TR	9 MR	9 TR	12 MR	12 TR	15 TR
Ref	7638340	7638342	7638345	7638347	7638349	7638351	7638353

TECHNICAL SPECIFICATIONS DHW (FOR HP SPECIFICATION SEE OPPOSITE)

Max. operating temp. DHW: 70°C

Max. operating pressure DHW: 10 bar

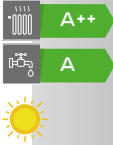
MODEL

	GSHP.../V and B 200 GHL	5 MR	5 TR	9 MR	9 TR	12 MR	12 TR	15 TR
Seasonal space heating energy efficiency (without regulation)*	%	136	136	140	140	140	140	145
Seasonal space heating energy efficiency (with delivered outdoor sensor)*	%	138	138	142	142	142	142	147
Draw-off cycle (1)	L	L	L	L	L	L	L	L
DHW calorifier capacity	L	194	194	194	194	194	194	194
Maximum usable DHW (1)	L	270	270	270	270	270	270	270
DHW heating time (1)	h	2h10	2h10	1h05	1h05	0h55	0h55	0h50
Absorbed output in stabilised regime (1)	W	42.2	42.2	42.2	42.2	42.2	42.2	42.2
COP DHW (1)		2.55	2.55	2.55	2.55	2.55	2.55	2.55
Eta_dhw according to EU n°811/2013 (draw-off cycle L)	%	115	115	115	115	115	115	115
Gross weight .../V 200 GHL/.../B 200 GHL	kg	243/246	243/246	259/262	259/262	261/264	261/264	276/279

(1) According to NF EN 16147 * Under average temperature with glycol water/water

HEAT PUMP

WATER (GLYCOL WATER)/WATER REVERSIBLE GROUND SOURCE PUMP WITH DHW PRODUCTION point



GSHP

GSHP.../V 200 GSHL from 5.7 to 17.1 kW



Modular conception
Large solar providing
Titan Active System®

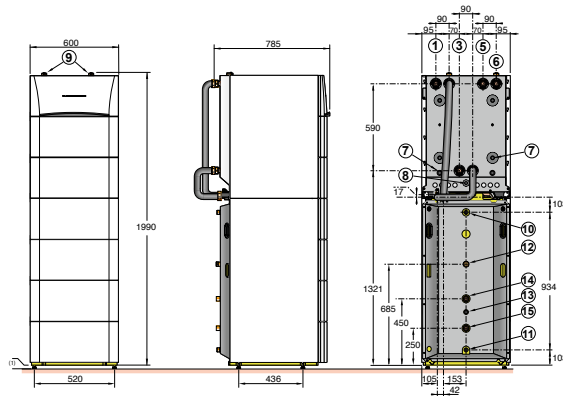
Enamelled stratification calorifier "High Load" equipped with a plate exchanger combined with a load pump and a calorifier connection to a solar system.

• Calorifier positioned under the HP to form a uniform "column"

- Protection by "Titan Active System®" (anode without consumption of material)
- Boiler/calorifier connecting pipes and DHW sensor included, adjustable feet
- Draining valve
- Packaging: 3 packages

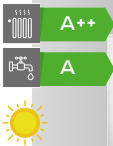
OPTIONS: see following pages

- ① Heating flow G 1"
 - ③ Heating return G 1" (delivered with 2 gate valves and a filter)
 - ⑤ Geothermal collection circuit flow G 1" 1/4 (delivered with a gate valve equipped with a manometer)
 - ⑥ Geothermal collection circuit return G 1" 1/4 (delivered with 2 gate valves and a filter)
 - ⑦ Safety valves outlets (collector side, heating side)
 - ⑧ Condensates drain
 - ⑨ Automatic air vents (collector side, heating side)
 - ⑩ Domestic hot water outlet G 3/4"
 - ⑪ Domestic cold water inlet G 3/4"
 - ⑫ Circulating loop return G 3/4"
 - ⑬ Position solar sensor
 - ⑭ Inlet from solar coil G 1"
 - ⑮ Outlet from solar coil G 1"
- (1) Feet adjustable from 10 to 30 mm



MODEL

GSHP.../V 200 GSHL	5 MR	5 TR	9 MR	9 TR	12 MR	12 TR	15 TR
Ref	7638363	7638365	7638367	7638370	7638372	7638375	7638377



GSHP

GSHP.../B 200 GSHL from 5.7 to 17.1 kW



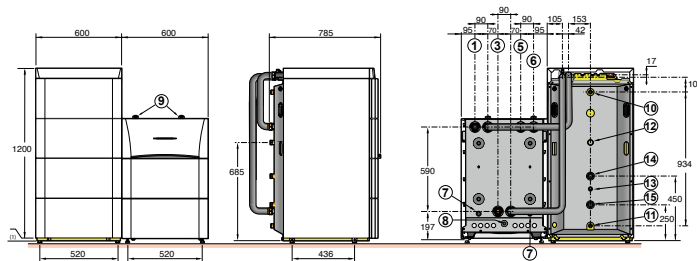
Enamelled stratification calorifier "High Load" equipped with a plate exchanger combined with a load pump and a calorifier connection to a solar system

• Calorifier positioned to the right or the left of the boiler, with the same aesthetic as the boiler

- Protection by "Titan Active System®" (anode without consumption of material)
- Boiler/calorifier connecting pipes and DHW sensor included, adjustable feet
- Draining valve
- Packaging: 3 packages

OPTIONS: see following pages

- ① Heating flow G 1"
 - ③ Heating return G 1" (delivered with 2 gate valves and a filter)
 - ⑤ Geothermal collection circuit flow G 1" 1/4 (delivered with a gate valve equipped with a manometer)
 - ⑥ Geothermal collection circuit return G 1" 1/4 (delivered with 2 gate valves and a filter)
 - ⑦ Safety valves outlets (collector side, heating side)
 - ⑧ Condensates drain
 - ⑨ Automatic air vents (collector side, heating side)
 - ⑩ Domestic hot water outlet G 3/4"
 - ⑪ Domestic cold water inlet G 3/4"
 - ⑫ Circulating loop return G 3/4"
 - ⑬ Position solar sensor
 - ⑭ Inlet from solar coil G 1"
 - ⑮ Outlet from solar coil G 1"
- (1) Feet adjustable from 10 to 30 mm



MODEL

GSHP.../B 200 GSHL	5 MR	5 TR	9 MR	9 TR	12 MR	12 TR	15 TR
Ref	7638362	7638364	7638366	7638369	7638371	7638374	7638376

TECHNICAL SPECIFICATIONS DHW (FOR HP SPECIFICATION SEE PREVIOUS PAGES)

Max. operating temp. DHW: 95°C

Max. operating pressure DHW: 10 bar

Max. solar operating pressure: 6 bar

MODEL

	GSHP.../V and B 200 GSHL	5 MR	5 TR	9 MR	9 TR	12 MR	12 TR	15 TR
Seasonal space heating energy efficiency (without regulation)*	%	136	136	140	140	140	140	145
Seasonal space heating energy efficiency (with delivered outdoor sensor)*	%	138	138	142	142	142	142	147
DHW calorifier capacity	L	187	187	187	187	187	187	187
Solar volume/Back-up volume	L	73/114	73/114	73/114	73/114	73/114	73/114	73/114
Eta_dhw according to (EU) n°811/2013 regulation from commission August 2nd, 2013 (draw-off cycle L)	%	115	115	115	115	115	115	115
Gross weight ...V 200 GSHL/...B 200 GSHL	kg	258/261	258/261	274/277	274/277	276/279	276/279	291/294

* Under average temperature with glycol water/water

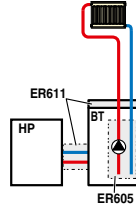
HEAT PUMP

List of packages required according to the type of installation to realize.

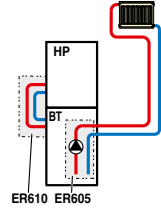
INSTALLATION WITH 200 GT BUFFER TANK (WITHOUT DHW)

GSHP 5 TO 15

1 DIRECT CIRCUIT



OR

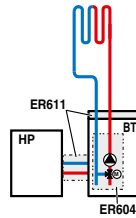


NECESSARY REGULATION OPTIONS

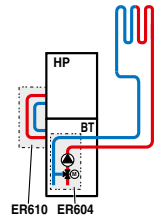
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—

1 CIRCUIT WITH MIXING VALVE



OR

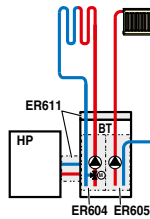


NECESSARY REGULATION OPTIONS

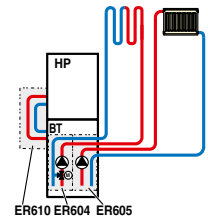
Flow sensor included in the package ER604

Flow sensor included in the package ER604

1 DIRECT CIRCUIT + 1 CIRCUIT WITH MIXING VALVE



OR

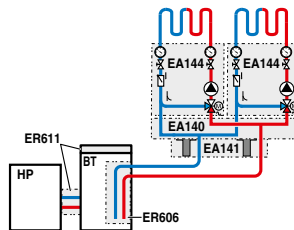


NECESSARY REGULATION OPTIONS

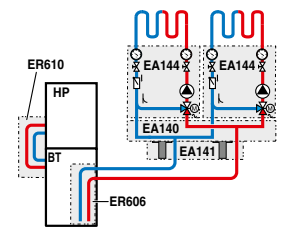
Flow sensor included in the package ER604

Flow sensor included in the package ER604

2 CIRCUITS WITH MIXING VALVE



OR

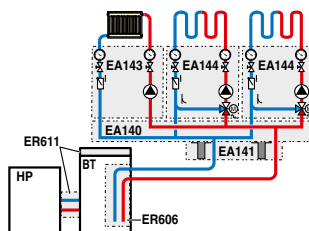


NECESSARY REGULATION OPTIONS

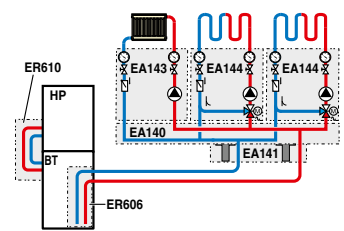
AD199 + AD249

AD199 + AD249

3 CIRCUITS, 2 OF THEM WITH MIXING VALVE



OR



NECESSARY REGULATION OPTIONS

AD199 + AD249

AD199 + AD249

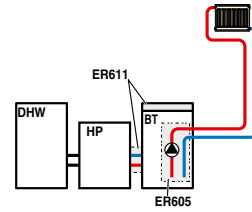
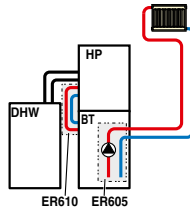
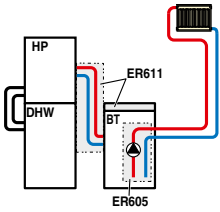
KEY:
DHW = calorifier with domestic hot water, HP = heat pump, BT = buffer tank

HEAT PUMP

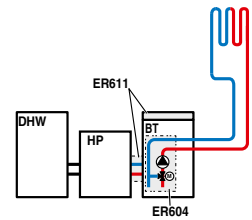
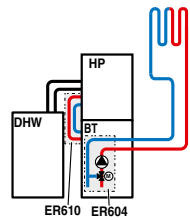
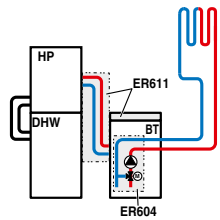
INSTALLATION WITH 200 GT BUFFER TANK (WITH DHW)

GSHP 5 TO 15/V 200...
(CALORIFIER POSITIONED UNDER THE HP)

GSHP 5 TO 15/B 200...
(CALORIFIER POSITIONED TO THE RIGHT OR TO THE LEFT OF THE HP)



or

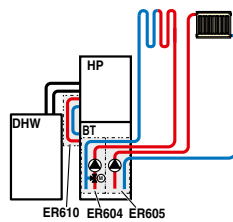
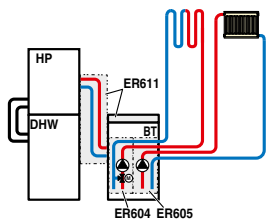


or

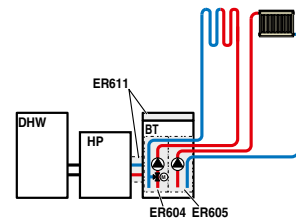
Flow sensor included in the package ER604

Flow sensor included in the package ER604

Flow sensor included in the package ER604



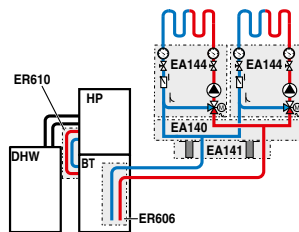
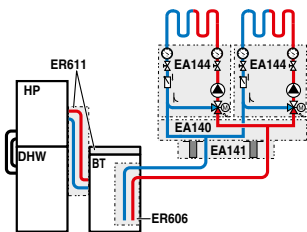
or



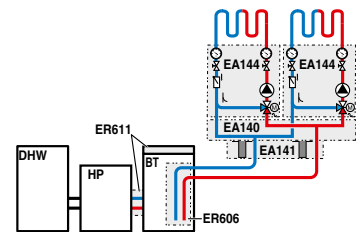
Flow sensor included in the package ER604

Flow sensor included in the package ER604

Flow sensor included in the package ER604



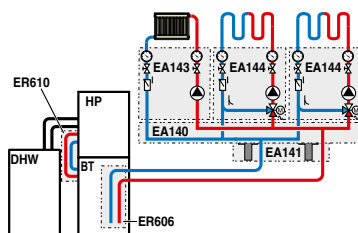
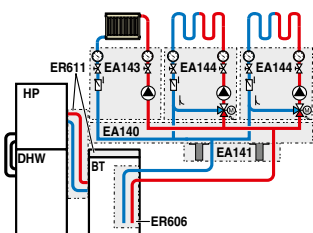
or



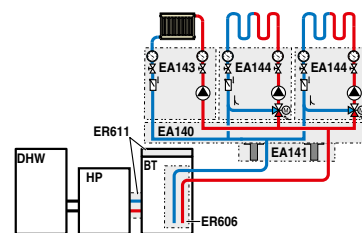
AD199 + AD249

AD199 + AD249

AD199 + AD249



or



AD199 + AD249

AD199 + AD249

AD199 + AD249

HEAT PUMP

FOR GSHP GROUND SOURCE PUMP

ALL OPTIONS EXCEPT CONTROL UNITS

ACCESSORIES

	PACKAGE	REF.
Kit electrical back-up:		
• 6 or 9 kW for GSHP 5/9/12/15...	HZ20	7616680
• 9 kW for GSHP 19/27 TR	HZ19	7616643
Separation kit with exchanger:		
• for GSHP 5/9 MR/TR	HZ24	7618061
• for GSHP 12 MR/TR and 15 TR	HZ26	7618063
• for GSHP 19/27 TR	HZ28	7618065
Kit pump WILO PARA 25/1-8 for GSHP 19	HZ63	7622062
Buffer tank 200 GT	ER602	7607396
Insulation set in cooling mode	ER581	7620436
Heating/DHW reversal valve for GSHP 19/27 TR	HZ17	7616429
Filter 400 µm + gate valve	EH61	10004417
FERNOX TF1 Filter	EH896	100020045

DHW PRODUCTION

- GSHP 5/9/12/15: with calorifier B/V 200 GHL or GSHL see previous pages
- GSHP 19/27: with independent calorifier see chapter 8

HYDRAULIC ACCESSORIES

	PACKAGE	REF.
Connecting kit for one circuit with mixing valve	ER604	7610411
Connecting kit for one direct circuit	ER605	7610412
Connecting kit for outside circuit	ER606	7610667
Hydraulic connection kit HP- DHW calorifier or buffer tank (200 GHL/200 GSHL/200 GT) juxtaposed	ER611	7611489
Hydraulic connection kit HP- DHW calorifier or buffer tank (200 GHL/200 GSHL/200 GT) in column	ER610	7611488
Hydraulic module with a high performance energy pump with EEI < 0.23:		
• for 1 direct circuit	EA143	100020167
• for 1 circuit with mixing valve	EA144	100020168
Insulated collector for 1 hydraulic module	EA140	100020164
Set of consoles for 1 hydraulic module	EA142	100020166
Set of console for collector	EA141	100020165
G in R connection kit (1" and 3/4")	BH84	89557009



COMBINATIONS GSHP/DHW CALORIFIERS RECOMMENDED

	CAPACITY (L)	COIL EXCHANGER SURFACE (m ²)	q _{pr} (kWh/24 h)	GSHP 5	GSHP 9	GSHP 12	GSHP 15	GSHP 19	GSHP 27
BPB 150	150	0.84	1.1	●	●	○	○	○	○
BPB 200	200	1.20	1.3	●	●	●	○	○	○
BPB 300	300	1.70	1.6	●	●	●	○	○	○
BPB 400	400	2.20	2.0	●	●	●	●	○	○
BPB 500	500	3.10	2.2	●	●	●	●	●	●
BEPC 300	300	2.5	2.2	●	●	●	●	●	●

● Combination recommended ○ Combination not recommended

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Control panel DIEMATIC iSystem (1)(2)	Circuit type	Circuit diagrams					
		DHW	direct	valve	direct + 1 valve	2 x valves	direct + 2 x valves
GSHP		1 x AD212	as standard	1 x AD199	1 x AD199	1 x AD199 + 1 x AD249	1 x AD199 + 1 x AD249

(1) Each of the heating circuits can be completed in choice by a remote control AD285, AD284 + AD252 or FM52
 (2) Cascade up to e 10 HP possible

CONTROL UNITS

	PACKAGE	REF.	PACKAGE	REF.
Wiring kit for underfloor safety thermostat	HZ29	7622431	AD199	88017017
CDI D. iSystem remote control	AD285	100018924	DIEMATIC BUS connecting cable (12 m)	AD134 88017851
Radio remote control CDR D. iSystem module (without radio transmitter/receiver)	AD284	100018923	DHW sensor (5 m)	AD212 100000030
Radio outside temperature sensor	AD251	100013306	Energy metering kit	HK29 100020294
Boiler radio module (transmitter/receiver)	AD252	100013307	Condensation detector kit	HK27 100019114
Simplified remote control + room sensor	FM52	85757747	Sensor for storage tank	AD250 100013305
PCB + sensor for mixing valve	AD249	100013304		

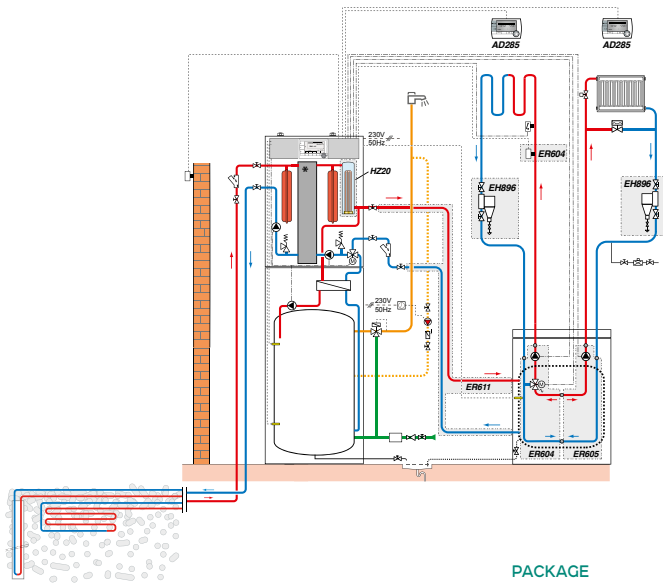
EXAMPLES OF INSTALLATION

FOR WATER (GLYCOL WATER)/WATER REVERSIBLE GROUND SOURCE HEAT PUMP GSHP

GSHP GSHP 9 MR/V 200 GH



- 1 underfloor heating (with mixing valve)
- 1 direct circuit "radiators"
- 1 buffer tank 200 GT



GSHP_F0100

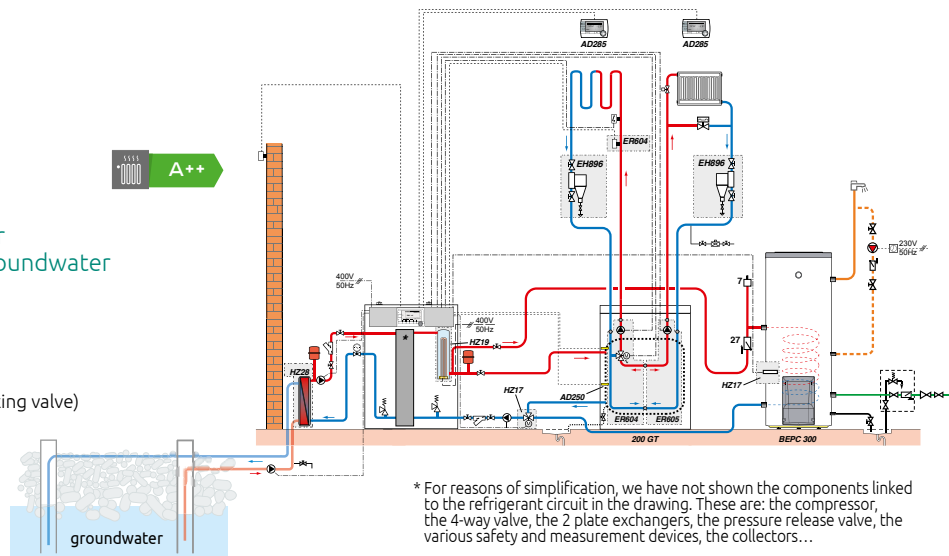
DESCRIPTION

	PACKAGE	REF.
GSHP 9 MR/V 200 GH heat pump	-	7638346
Buffer tank 200 GT	ER602	7607396
Sensor for storage tank	AD250	100013305
Connecting kit for one direct circuit	ER605	7610412
Connecting kit for one circuit with mixing valve	ER604	7610411
Heat pump/buffer tank 200 GT connecting kit	ER611	7611489
Electrical resistance 9 kW	HZ20	7616680
Options		
- 2 x remote control CDI D. iSystem	2 x AD285	2 x 100018924
- 2 x filter 400 µm + gate valve	2 x EH61	2 x 100004417

GSHP GSHP 19TR-E with a barrage exchanger for draw-off from the groundwater



- 1 underfloor heating (with mixing valve)
- 1 direct circuit "radiators"
- 1 solar circuit
- 1 BEPC 300 DHW calorifier



GSHP_F0300

* For reasons of simplification, we have not shown the components linked to the refrigerant circuit in the drawing. These are: the compressor, the 4-way valve, the 2 plate exchangers, the pressure release valve, the various safety and measurement devices, the collectors...

DESCRIPTION

	PACKAGE	REF.
GSHP 5 MR/V 200 GSHL heat pump	-	7612360
Buffer tank 200 GT	ER602	7607396
BEPC 300 DHW calorifier		7620661
Sensor for storage tank	AD250	100013305
Connecting kit for one direct circuit	ER605	7610412
Connecting kit for one circuit with mixing valve	ER604	7610411
Heat pump/buffer tank 200 GT connecting kit	ER611	7611489
Heating/DHW reversal valve	HZ17	7616429
Separation kit with exchanger	HZ28	7618065
Options		
- 2 x CDI D. iSystem remote control	2 x AD285	2 x 100018924
- 2 x filter 400 µm + gate valve	2 x EH61	2 x 100004417
- Electrical resistance 9 kW	HZ19	7616643

HEAT PUMP

AIR/WATER HEAT PUMPS "MONOBLOC INVERTER"



PROJECT

MMTC R32

From 19.5 to 40.2 kW

point +

compatibility with different electronic devices, to make cascade and hybrid installations



NEW



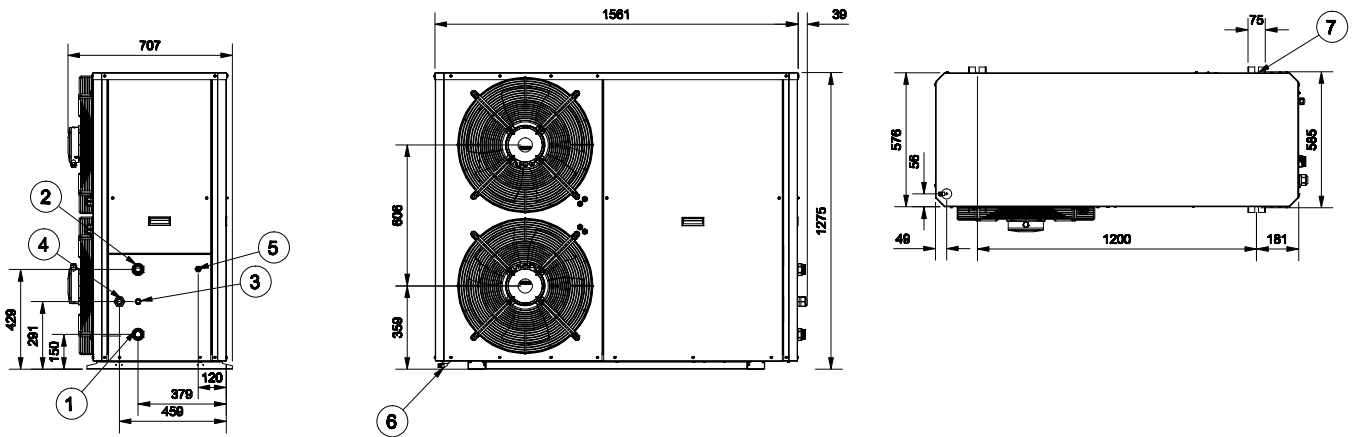
Monobloc inverter air-to-water heat pump for heating and air-conditioning, with the possibility of producing hot water through an external storage tank.

- **Low GWP refrigerant:** these heat pumps range use R32 as a refrigerant.
- **Maximum flow temperature of 60°C Monobloc system:** the unit doesn't need an indoor unit, thus a refrigerant connection is not required. It includes the pump, security valve, flow meter or flow switch (depending on the model) and an air vent.
- **Low dimensions:** reduced footprint with a depth smaller than 700 mm, so it should pass through a standard door.

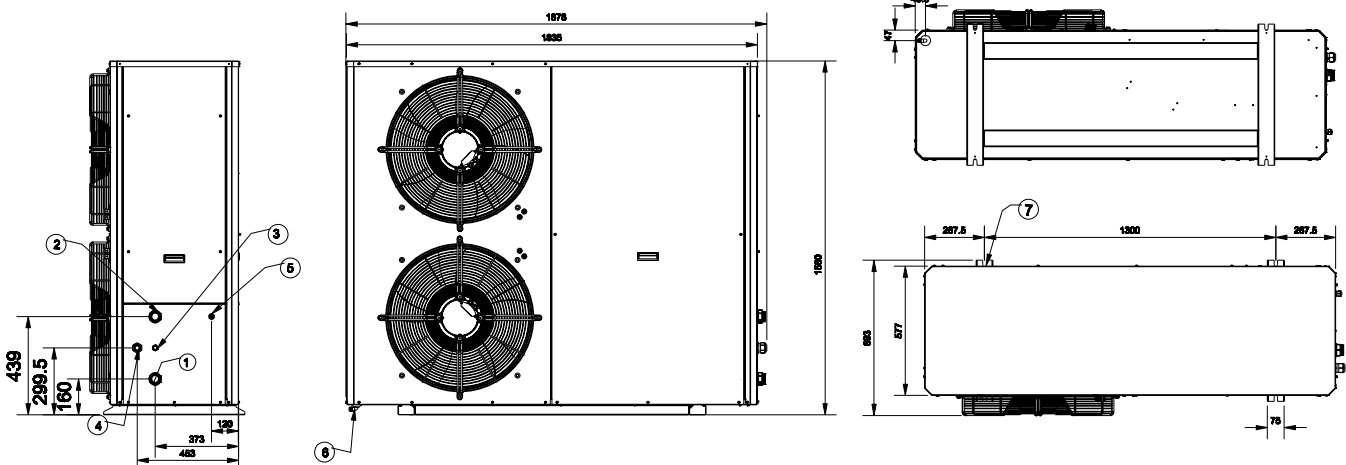
- **Indoor installation:** fans overpowered with available pressure until 200 Pa (depending on the model) that allows to duct the air out of the building.
- **Low noise:** noise power below 65 dB(A), noise pressure at 5 m 43 dB(A). Reduce nigh noise functionality.
- **Installation close to the sea:** there is the possibility to order the heat pump with a special exchanger treatment.
- **ModBus connectivity:** heat pumps can be connected to a BMS using ModBus protocol.
- **Packaging:** 1 package

MAIN DIMENSIONS (mm and inches)

MMTC R32 20/26



MMTC R32 33/40



- ① Water inlet (1 1/4" 20 and 26 / 1 1/2" 33 / 2" 40)
- ② Water outlet (1 1/4" 20 and 26 / 1 1/2" 33 / 2" 40)
- ③ Safety valve drain connection 1/2"
- ④ Electrical connection - power supply
- ⑤ Communication connection - control
- ⑥ Condensate drain connection 3/4"
- ⑦ Anti-vibration (feet housing diam. 16 mm)

TECHNICAL SPECIFICATIONS

Use limit temperature in heating mode:
Water: + 25°C/+ 60°C
Outside air: - 15°C/+ 40°C

Heating circuit. Max. operating pressure: 6 bar

MODEL

	MMTC R32	20	26	33	40
MAX. OPERATING PRESSURE					
Energy efficiency class (SEE) (heating) (35°C)		A++	A++	A++	A++
Energy efficiency class (SEE) (heating) (55°C)		A++	A++	A++	A++
SCOP (35°C/55°C)		4.45 / 3.33	4.35 / 3.48	4.86 / 3.56	4.76 / 3.57
SEER (7°C)		4.73	4.92	4.78	4.88
Seasonal space heating energy efficiency under average temperature (35°C/55°C)*	%	174 / 130	170 / 136	190 / 140	186 / 140
CERTIFIED THERMAL PERFORMANCE					
Potencia calorífica a +7°C/35°C (1)	kW	21.2	27.2	33.4	40.2
COP a +7°C/35°C (1)		4.38	4.30	4.36	4.30
Potencia calorífica a +7°C/45°C (1)	kW	20.1	26.5	31.3	38.9
COP a +7°C/45°C (1)		3.43	3.42	3.48	3.40
Potencia frigorífica a +35°C/+18°C (5)	kW	21.3	26.0	29.0	37.7
EER a +35°C/+18°C (5)		4.3	4.7	4.2	4.3
Potencia frigorífica a +35°C/+7°C (5)	kW	20.0	24.8	26.5	30.6
EER a +35°C/+7°C (5)		3.3	3.2	3.2	3.1
Noise power (3)	dB(A)	65	65	65	65
TECHNICAL SPECIFICATIONS					
Nominal water flow rate	m ³ /h	3.0	4.3	5.2	5.9
Available water pressure	mca	5	5	5	5
Power source	V	400 ~ trif	400 ~ trif	400 ~ trif	400 ~ trif
Max current	A	30	30	41	46
R32 Refrigerant weight	kg	4.7	4.8	5.5	5.6
CO2 equivalent	tm	3,17	3.24	3.71	3.68
sound power (4)	dB(A)	51	51	49	49
Weight	kg	270	279	360	362

(1) Heating mode: outside air temperature/water temperature at outlet, performance in accordance with EN 14511-2

(3) Test performed in accordance with standard EN 12102-1

(4) At 5 m, nominal output

(5) Air conditioning mode: outdoor air temperature/water temperature at the outlet, performance according to EN 14511-2

MODEL

	MMTC R32	20	26	33	40
Standard Version	REF.	7832033	7832034	7832035	7832036
MMTC R32 HR					
Version with saline atmosphere protection treatment	REF.	7837268	7837269	7837270	7837271

ACCESSORIES

	PACKAGE	REF.
Rubber Shock Absorber 20/26 kW	-	7841692
Rubber Shock Absorber 33/40 kW	-	7848648
Water Filter 1 1/4"	-	7841694
Water Filter 1 1/2"	-	7841695
Water Filter 2"	-	7841696
Antifreeze security valve 1 1/4"	-	7841697
Antifreeze security valve 1 1/2"	-	7841698
Antifreeze security valve 2"	-	7841699
Refrigerant detector	-	7841700

CONTROLS ACCESSORIES

	PACKAGE	REF.
VM Diematic Evolution AD315	AD315	7676561
DiemaControl	-	7847059
DHW sensor	AD212	100000030
Sensor for mixing valver (2.5 m)	AD199	88017017
Sensor for storage tank	AD250	100013305
PCB + sensor for mixing valve circuit	AD249	100013304
Programmable (wired with battery)	AD337	7768817
Programmable (wireless)	AD338	7768818
Outside sensor (wireless) only in combination with the AD341*	AD346	7776874
Connected room thermostat:		
Outdoor Sensor	FM46	85757741
SMART TC [®] , R-BUS (wire)	AD324	7691375
SMART TC [®] , RF (wireless)	AD341	7691377
SMART TC [®] , RF (wireless) for 2nd circuit	AD342	7765144
Cable Kit Hybrid	-	7852998
S-BUS cable with plug:		
• 1.5 m	AD308	7663618
• 12 m	AD309	7663561
• 20 m	AD310	7663619
Bus Terminator	AD321	7688305
GTW08 Modbus	-	7721982
GTW-21	-	7756023
Outside sensor (wireless) only in combination with the AD341*	AD346	7776874

* need to order the connected room sensor AD341



GAS

O2 WALL-HUNG GAS CONDENSING/LOW TEMPERATURE BOILERS 3,4 to 1216 kW

RESIDENTIAL DOMESTIC SELECTION GUIDE

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Inidens (condensing) NEW	p52
Naneo PMC-S (condensing) / EMC-S (condensing)	p56
Vivadens MCR-P BIC (condensing)	p68
MPX (condensing)	p70
Zena Plus MSL (low temperature)	p81
Zena MS (low temperature)	p85

Evodens AMC (condensing)	p75
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COMMERCIAL BOILERS (**CONDENSING**) SELECTION GUIDE

Evodens Pro AMC 45 to 115	p92
Innovens Pro MCA 160	p98

O3 FLOOR-STANDING GAS CONDENSING BOILERS 23 to 1300 kW

RESIDENTIAL DOMESTIC SELECTION GUIDE

p104

Twineo EGC	p106
Modulens G AGC	p110

COMMERCIAL BOILERS SELECTION GUIDE

p116

Elidens C140	p117
C 230 EVO-.. NEW	p123
C 340-..	p126
C 640-..	p127

WALL-HUNG GAS CONDENSING BOILERS

RESIDENTIAL DOMESTIC SELECTION GUIDE

Naneo S

Vivadens

Inidens

	Naneo S				Vivadens				Inidens							
	PMC-S 24, 34	PMC-S... MI	PMC-S 24, 34/ BMR 80	PMC-S 24, 34/ SRB 130	EMC-S 24, 34	EMC-S... MI	EMC-S 24, 34/ BMR 80	EMC-S 24, 34/ SRB 130	MCR-P 24/28 BIC PLUS	INIDENS 24	INIDENS 24 + BMR 80	INIDENS 24 + SRB 130	INIDENS.. MI			
Nominal output at 80/60°C (heating)	kW 23.8 to 34.7	kW 23.8 to 34.7	kW 23.8 to 34.7	kW 23.8 to 34.7	kW 23.8 to 34.7	kW 23.8 to 34.7	kW 23.8 to 34.7	kW 23.8 to 34.7	23,8	24	24	24	20 to 30			
Nominal output at 80/60°C (DHW)	kW 23.8 to 34.7	kW 27.5 to 37.8	kW 20.6 to 22.1	kW 27.5 to 37.8	kW 23.8 to 34.7	kW 27.5 to 37.8	kW 20.6 to 22.1	kW 27.5 to 37.8	27,4	-	22.5	22.5	24 to 34			
Specific flow rate compliance with EN13203	l/min -	l/min 14.0 to 19.0	l/min 16.2	l/min 20.0	l/min -	l/min 14.0 to 19.0	l/min 16.2	l/min 20.0	18,0	-	16.2	20.0	11.5 to 16.2			
Energy efficiency class (heating)																
Energy efficiency class (DHW)																
Control panel to manage																
Equipped for the connection of an independent tank	X	-	-	-	X	-	-	-	integrated 40 l tank	-	80 l wall-hung tank	130 l tank placed under the boiler	instant DHW			
Connectivity	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°			
Domestic hot water production with	-	instant DHW	80 l wall tank	130 l tank placed under boiler	-	instant DHW	80 l wall tank	130 l tank placed under boiler	-	-	-	-	-			
Pages	56	58	57	57	62	64	63	63	68	52	52	52	53			
Flue systems	See chapter flue systems				See chapter flue systems				See chapter flue systems							
Options and examples of installation	59				65				69				54	54	54	54

MPX

Evodens



MPX 24 COMPACT	MPX... MI COMPACT	MPX 28/33 BIC	AMC 15... to 35	AMC 25/28... MI	AMC 25/28 and 25/39 BIC	AMC 15... 35/BS 60	AMC 15... 35/ SRB 130
24	20 to 28	28	14.9 to 34.5	24.8	24.8 to 34.5	14.9 to 34.5	10.4 to 34.5
24	24 to 33	33	14.9 to 34.5	27.8	29.1 - 38.5	14.9 to 25.0	10.4 to 25.0
-	11,5 to 15,8	18,3	-	14	20 to 24	20 to 24	20.0
			Up to	Up to	Up to	Up to	Up to
-		-	Up to	Up to	Up to	Up to	Up to
...	X	-	-	-	-
Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°
-	instant DHW	integrated 40 l tank	-	instant DHW	integrated 40 l tank	integrated 40 l tank	130 l tank placed under boiler
70	71	72	75	78	77	76	76

See chapter flue systems

See chapter flue systems

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RESIDENTIAL DOMESTIC SELECTION GUIDE

Zena Plus (Low temperature)



		MSL 24, 31 FF	MSL 24 MI	MSL 24, 28, 31 MI FF	MSL 24, 31 FF + BMR 80	MSL 24, 31 FF + SRB 130
Nominal output at 80/60°C (heating)	kW	25, 31	25	25, 28.1, 31	24, 31	24, 31
Nominal output at 80/60°C (DHW)	kW	25, 31	25	25, 28.1, 31	24, 31	24, 31
For connection:						
• chimney			x			
• forced flue		x		x	x	x
Specific flow rate compliance with EN13203	l/min	-	10.7	11.5 to 13.7	21.0	26.0
Energy efficiency class (heating)						
Energy efficiency class (DHW)						
Control panel to manage						
Equipped for the connection of an independent tank		x				
Domestic hot water production with		-	instant DHW	instant DHW	80 l wall tank	130 l tank placed under boiler
Pages		81	82	82	83	83

Flue systems

See chapter flue systems

Options and examples of installation

84

Zena (Low temperature)



MS 24

MS 24
FF

MS 24
MI

MS 24
FF MI

MS 24
+ BMR 80

MS 24 FF
+ BMR 80

MS 24
+ SRB 130

MS 24 FF
+ SRB 130



24

24

24

24

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24

24

x

x

x

x

x

x

x

x

x

x

x

x

-

-

12.0

12.0

21.0

21.0

26.0

26.0



x

x

-

-

instant
DHW

instant
DHW

80 l
wall tank

80 l
wall tank

130 l
tank placed under boiler

130 l
tank placed under boiler

85

85

85

87

86

86

86

86

See chapter flue systems

EASYLIFE

Inidens

INIDENS 24 from 6,3 to 26,1 kW

Point

Annual operating efficiency up to 109.9%
Brass Hydrobloc Compact
Very competitive price positioning



NEW

CE Nr. 0085CU0338

OPTIONS: see following pages,

FLUE GAS SYSTEM: see Chapter 14

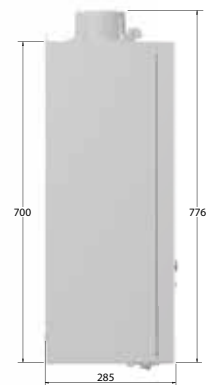
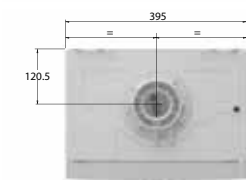
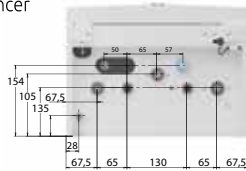
Fully preset gas condensing wall hung boiler designed to operate on natural gas or converted to propane. As a pioneer, INIDENS is adapted for operation with natural gas with a hydrogen content of up to 20% (H2).

- Can be connected with an horizontal or vertical forced flue, terminal, to a chimney or in bi-flow or on a collective flue system (options)
- Annual operating efficiency up to 109.9%
- Low pollutant emissions
- Stainless steel single-coil heat exchanger with large water passages
- Stainless steel premix burner with gas/Air control and integrated drawback valve for connection to overpressure flue gas systems, Output modulation between 20% and 100%
- Low-noise fan for combustion air supply with intake silencer

- Electrical ignition and ionization
- flame monitoring
- Robust brass hydrobloc containing the modulating heating circulating pump, automatic bypass, heating/DHW inverting valve, 3 bar safety valve, and the mechanical manometer.
- 7 Litres expansion vessel
- Simple and functional control panel with backlight
- Display, buttons for setting the temperatures for heating/DHW and buttons for access to all setting parameters
- Packaging: 1 package

DIMENSIONS (mm)

- Mechanical Mechanical manometer
- Heating Flow G 3/4"
- Condensate drain
- Heating Flow DHW - Tank G 3/4"
- Gas connection G 3/4"
- Filling-Cold water inlet G 1/2"
- Heating return/DHW tank return G 3/4"
Flue gas evacuation and combustion air inlet pipe Ø 60/100 mm



TECHNICAL SPECIFICATIONS

Operating conditions

Max. operating pressure: 3 bar
Max. operating temperature: 80 °C
Safety temperature limiter: 110 °C
Power supply: 230 V/50 Hz

International Protection marking:
IP X5D
Power supply: 230 V/50 Hz

Gas category

II2H3B/P, II2H3P
NOx class: 6

Homologations

B23, B23P, B33, C[10]3X, C13X,
C[15]3X, C[12]3X, C33X, C43P,
C53X, C63X, C83, C93X

MODEL

	INIDENS	24	
Nominal useful output at Pn	kW	24	
Useful output at 50/30 °C (heating mode) min./max.	kW	6.3/26.1	
Useful output at 80/60 °C (heating mode) min./max.	kW	5.8/24.0	
Useful output at 80/60 °C (DHW mode)	kW	28	
Specific flow rate at Δt = 30 K (according to EN 13203-1)	l/min	-	
Efficiency in % LHV at ...% load • 100 % Pn_gen at av. temp. 70 °C	%	97.7	
Pn_gen and water temp... °C • 30 % Pn_gen t return temp 30 °C	%	109.7	
Seasonal energy efficiency: product ETAS (without control system) (1)	%	94	
Nominal water flow rate at Pn_gen, ΔT = 20 K	m³/h	1.03	
Available total dynamic head for the heating circuit at Δt = 20K	mbar	320	
Water content	l	2	
Gas flow rate at Pn_gen • natural gas H	m³/h	3.06	
15 °C – 1013 mbar • Propane	kg/h	2.24	
Max. flue gas temperature at 80/60 °C	°C	80	
Flue gas mass flow rate	kg/s	0.003/0.013	
Pressure available at the boiler outlet	Pa	100	
Standby losses at Δt = 30K (Qpa30)	W	40	
Electrical power	• of the auxiliaries (exc. circulating pump) at Pn_gen (Qaux)	W	35
	• of the auxiliaries in standby (Standby)	W	4
	• circulating pump at Pn_gen	W	44
Sound power level	dB(A)	51 (24 kW)	
Net weight	kg	29.0	

(1) In accordance with the (EU) regulation no. 813/2013..

MODEL

	INIDENS	24
Package		HX140
REF.		7797978

EASYLIFE

Inidens

INIDENS ... MI from 5,2 to 32,5 kW

Point

Annual operating efficiency up to 109.9%,
Brass Hydrobloc,
Compact, Very competitive price positioning



Fully preset gas condensing wall hung boiler designed to operate on natural gas or converted to propane. As a pioneer, INIDENS is adapted for operation with natural gas with a hydrogen content of up to 20% (H2). Can be connected with an horizontal or vertical forced flue, terminal, to a chimney or in bi-flow or on a collective flue system (options)

- Annual operating efficiency up to 109.9%
- Low pollutant emissions
- Stainless steel single-coil heat exchanger with large water passages
- Stainless steel premix burner with gas/Air control and integrated drawback valve for connection to overpressure flue gas systems, Output modulation between 20% and 100%

- Low-noise fan for combustion air supply with intake silencer
- Electrical ignition and ionization flame monitoring
- Robust brass hydrobloc containing the modulating heating circulating pump, automatic bypass, heating/DHW inverting valve, stainless steel plate heat exchanger for DHW production, 3 bar safety valve, and the mechanical manometer
- Simple and functional control panel with backlit Display, buttons for setting the temperatures for heating/DHW and buttons for access to all setting parameters.
- Packaging: 1 package

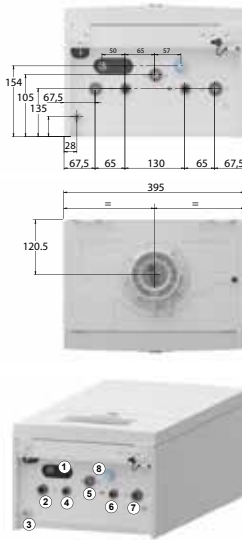
CE Nr. 0085CU0338

OPTIONS: see following pages,

FLUE GAS SYSTEM: see Chapter 14

DIMENSIONS (mm)

- ① Mechanical manometer
 - ② Heating Flow G 3/4"
 - ③ Condensate drain
 - ④ DHW outlet G 1/2"
 - ⑤ Gas connection G 3/4"
 - ⑥ Cold sanitary water inlet G 1/2"
 - ⑦ Heating return G 3/4"
 - ⑧ Filling tap
- Flue gas evacuation and combustion air inlet pipe Ø 60/100 mm



TECHNICAL SPECIFICATIONS

Operating conditions	Gas category	Homologations
Max. operating pressure: 3 bar Max. operating temperature: 80 °C Safety temperature limiter: 110 °C Power supply: 230 V/50 Hz	International Protection marking: IP X5D Power supply: 230 V/50 Hz	II2H3B/P, II2H3P NOx class: 6
		B ₂₃ , B _{23P} , B ₃₃ , C _{[10]3x} , C _{13x} , C _{[15]3x} , C _{[12]3x} , C _{33x} , C _{43P} , C _{53x} , C _{63x} , C ₈₃ , C _{93x}

MODEL

	INIDENS	20/24 MI	24/28 MI	30/35 MI	
Nominal useful output at Pn	kW	20	24	30	
Useful output at 50/30 °C (heating mode) min./max.	kW	5,2/21,8	6,3/26,1	7,9/32,5	
Useful output at 80/60 °C (heating mode) min./max.	kW	4,8/20,0	5,8/24,0	7,3/30,0	
Useful output at 80/60 °C (DHW mode)	kW	24	28	34	
Specific flow rate at Δt = 30 K (according to EN 13203-1)	l/min	11,5	13,4	16,2	
Efficiency in % LHV at ...% load • 100 % Pn_gen at av. temp. 70 °C	%	97,9	97,7	97,8	
Pn_gen and water temp...°C • 30 % Pn_gen t return temp 30 °C	%	109,9	109,7	109,7	
Seasonal energy efficiency: product ETAS (without control system) (1)	%	94	94	94	
Nominal water flow rate at Pn_gen, ΔT = 20 K	m³/h	0,86	1,03	1,29	
Available total dynamic head for the heating circuit at Δt = 20K	mbar	370	320	240	
Water content	l	2	2	2	
Gas flow rate at Pn_gen • natural gas H	m³/h	2,61	3,06	3,69	
15 °C – 1013 mbar • Propane	kg/h	1,92	2,24	2,71	
Max. flue gas temperature at 80/60 °C	°C	80	80	80	
Flue gas mass flow rate	kg/s	0,002/0,011	0,003/0,013	0,004/0,016	
Pressure available at the boiler outlet	Pa	100	100	100	
Standby losses at Δt = 30K (Qpa30)	W	40	40	40	
Electrical power	• of the auxiliaries (exc. circulating pump) at Pn_gen (Qaux)	W	27	35	48
	• of the auxiliaries in standby (Standby)	W	4	4	4
	• circulating pump at Pn_gen	W	44	44	50
Sound power level	dB(A)	49 (20 kW)	51 (24 kW)	52 (30 kW)	
Net weight	kg	28,5	30,0	30,0	

(1) In accordance with the (EU) regulation no. 813/2013.

MODEL

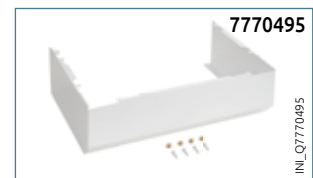
	INIDENS	20/24 MI	24/28 MI	30/35 MI
Package		HX141	HX142	HX143
REF.		7797979	7797980	7797981

OPTIONS

BOILER OPTIONS

	PACKAGE	REF.
Solo taps connection set	-	7679073
Combi taps connection set	-	7679074
Piping cover	-	7770495
Granule top-up for neutralisation (10 kg)*	-	94225601
Condensates neutralisation station DN1 (bis 75 kW)	SA1	7613605
Wall bracket for neutralisation station	SA2	7613606
Drain collector set	-	7783168
Solar kit with thermostatic valve	HG31	7737579
► Flue Gas system options		
Bi-flow adapter 2 x 80 mm	-	7220861
Adapter Ø 80/125 mm	-	7755080
Reduced elbow for horizontal forced flue terminal	-	7782188
PPS reduction piece Ø 80 to Ø 60 mm	-	7683812
PPS reduction piece Ø 80 to Ø 50 mm	-	7735536

*To be ordered in spare parts centre.



DHW PRODUCTION

	PACKAGE	REF.
Through integrated plate heat exchanger for instantaneous DHW (Inidens ... MI models)		see previous page
With 80 l wall hung tank to be juxtaposed or 130 l tank placed under the boiler		
- Wall hung tank BMR80	EE53	100005562
- Floor standing tank SRB130	EE81	7681039
Using independent calorifier BPB/BLC...		see chapter 08
DHW sensor	AD212	100000030



CONTROL SYSTEM

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Control panel INIDENS	Circuit type	Circuit type	
		DHW	1 direct circuit
INIDENS 24		AD212 (1)	Standard (2)
INIDENS ... MI		Standard (1)	Standard (2)

Control system that operates according to the room or outside temp.:

(1) To enable programming of the DHW function, modulating room temperature thermostats AD303, AD304 or AD324 is necessary

(2) To be complemented where needed by:

- If you want a control system that operates according to room temperature: room temp. thermostat (package AD337, AD338, AD140, AD301, AD303, AD304 or AD324, AD324 or AD341)
- If you want a control system that operates according to outside temperature:
 - outside temperature sensor (package FM46) or AD346* (Radio)
 - outside temp. sensor (package FM46 or AD346*) + room thermostat (package AD337, AD338, AD140, AD301, AD303, AD304, AD324 or AD341)

*Package AD346 in combination with AD341

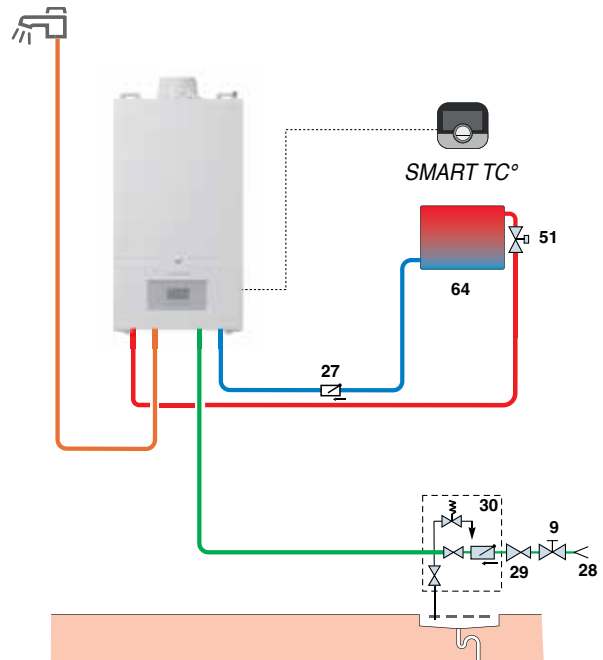
DESCRIPTION

	PACKAGE	REF.
Room thermostat:		
• Non-programmable room thermostat (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
Connected room thermostat:		
• SMART TC [®] , R-BUS (wire)	AD324	7691375
• SMART TC [®] RF (wireless)	AD341	7691377
Modulating room thermostat:		
• Programmable (wireless) (for East Europe)	AD288	S103295
• Programmable (wire) (for East Europe)	AD289	S103293
• Non programmable "OpenTherm" with room sensor (wire)	AD301	7612097
• Programmable with energy metering function (wireless)	AD303	7609762
• Programmable with energy metering function (wire)	AD304	7609763
Sensor:		
• Outside sensor	FM46	85757741
• DHW sensor	AD226	100005661
• Outside sensor (wireless) only in combination with the AD341*	AD346	7776874

* Need to order the connected room sensor AD341.

EXAMPLES OF INSTALLATION

INIDENS 24/28 MI



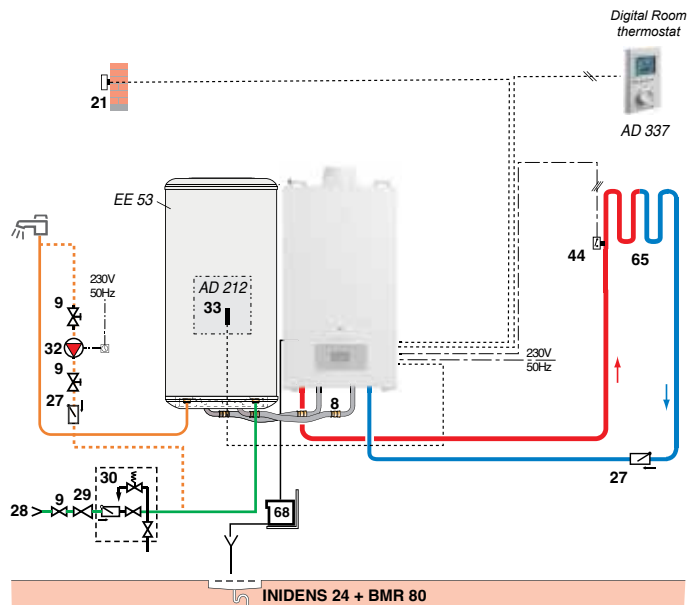
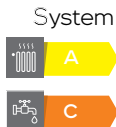
INL_F0006

- 1 direct circuit

DESCRIPTION

	PACKAGE	REF.
Boiler INIDENS 24/28 MI	HX142	7797980
Options		
- Connected room thermostat SMART TC°, R-BUS (wire)	AD324	7691375

INIDENS 24 + BMR 80



MPX_F0042

- 1 direct floor heating circuit (without mixing valve)

DESCRIPTION

	PACKAGE	REF.
Boiler INIDENS 24	HX140	7797978
Wall hung tank BMR80	EE53	100005562
DHW sensor	AD212	100000030
Options		
- Digital Room thermostat	AD337	7768817
- Outside sensor	FM46	8575741

EASYLIFE



Naneo S

PMC-S 24, 34 from 6.1 to 35.7 kW



Very easy installation
Reduced dimensions and weight
Easy maintenance



Hydrogen



Boiler of innovative design, very compact: 370 x 550 x 360 mm, extremely light: 25 kg

- Equipped and set to operate on natural gases, adaptable to propane
- Can be connected with a horizontal or vertical forced flue, to a chimney, in bi-flow or on a collective flue system (options)
- Low pollutant emissions: NOx < 60 mg/kWh
- Compact exchanger, molded cast alloy Aluminium/Silicium, high efficiency
- Air/gas module with gas burner, modulating from 24 to 100% of output, with a non return valve to run with pressurised evacuation system, the central unit, the venturi, the fan with air intake silencer and the gas supply pipe

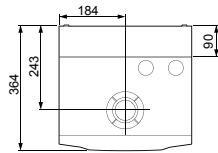
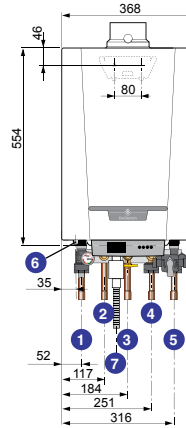
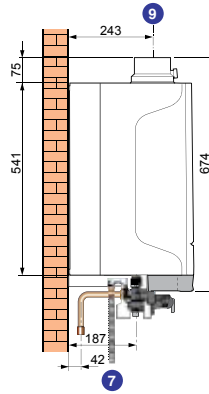
- Hydraulic module integrating heating pump, the heating/DHW reversal valve, the 3-bar heating safety valve, the flow limiter...
- 8 litre expansion vessel integrated in the support frame
- Mounting frame (must be ordered separately) with prefitted water and gas valves, disconnecter (outlet and return valves, and disconnecter in composite material), mechanical manometer, flow collector and connecting pipes kit
- A complete mounting frame with automatic filling is also available (option), see following pages.
- Removable control panel, located under the boiler, can be deported to the wall
- Packaging: 1 package

CE GAR NR. 19GR0365/01

OPTIONS: see following pages/ FLUE SYSTEMS: see chapter 14

MAIN DIMENSIONS (mm and inches)

- ① Heating flow Ø 18 mm int.
- ② Primary tank outlet Ø 16 mm int. (if exists)
- ③ Gas inlet Ø 18 mm int.
- ④ Primary tank return Ø 16 mm int. (if exists)
- ⑤ Heating return Ø 18 mm int.
- ⑥ Safety valve outlet pipe Ø 15 mm
- ⑦ Condensates drain Ø 25 mm
- ⑧ Evacuation of combustion products and air inlet pipe Ø 60/100 mm



EMCS_F0001

TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C
Max. operating pressure: 3 bar

Safety thermostat: 110°C
Power supply: 230 V/50 Hz

Protection index: IP X4D
NOx classification: 6

Classification: B₂₃, B_{23P}, B₃₃, C_{13(x)}, C_{33(x)}, C_{43(x)}, C₅₃, C_{63(x)}, C_{83(x)}, C_{83P}, C_{93(x)}, C_{103(x)}, C_{123(x)}

MODEL

	PMC-S	24	34
Useful output at 50/30°C Pn (heating mode)	kW	6.1-24.8	8.5 - 35.7
Efficiency at ...% output and ...°C water temperature	- 100% Pn at average temp. 70°C - 100% Pn at return temp. 30°C - 30% Pn at return temp. 30°C	%	99.1
		%	103.3
		%	110.5
Seasonal space heating energy efficiency (without contribution of regulation)	%	94	94
Stand-by losses at ΔT = 30 K	W	35	45
Auxiliary electrical power (ex. heating pump) at Pn	W	37	56
Electrical power heating pump	W	21	28
Electrical power at zero load	W	3	3
Min./max. useful output at 80/60°C (heating mode)	kW	5.5-23.8	7.7 - 34.7
Manometric height available heating circuit	mbar	> 212	144
Water content	l	1.4	1.5
Flue gas pressure available	Pa	80	105
Net weight	kg	25	28

MODEL

	PMC-S	24	34
Package		HP120	HP131
Ref.		7716355	7716640

GAS

WALL-HUNG GAS CONDENSING BOILER, FOR HEATING AND DOMESTIC HOT WATER PRODUCTION



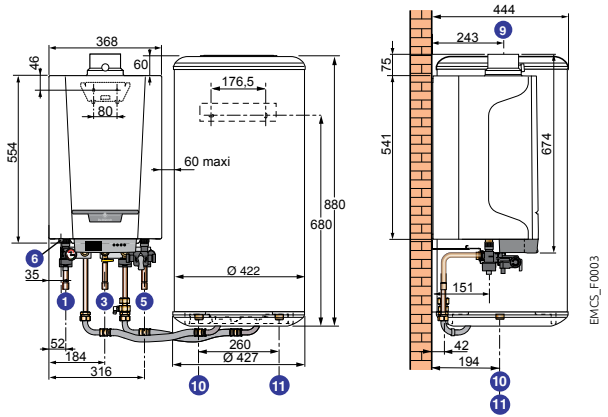
Naneo S

PMC-S 24 and 34 /BMR 80 from 6.1 to 35.7 kW



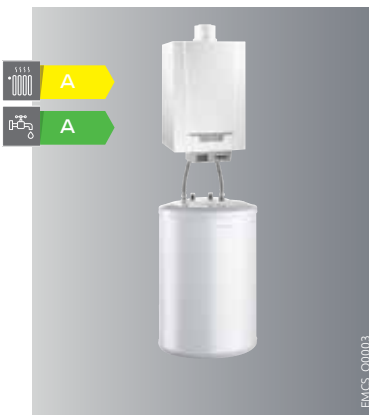
Enamelled 80 litre DHW calorifier placed to the right or the left of the boiler, protection by magnesium anode

- Boiler/tank connecting pipes included
- DHW sensor delivered
- Packaging: 4 packages



MODEL

	PMC-S 24/BMR 80	34/BMR 80
Boiler PMC-S 24	HP120	REF. 7716355
Boiler PMC-S 34	HP131	- 7716640
Calorifier BMR 80	EE53	100005562
Connecting pipes boiler/calorifier BMR 80	HR93	7601255
DHW sensor	AD226	100005661



Naneo S

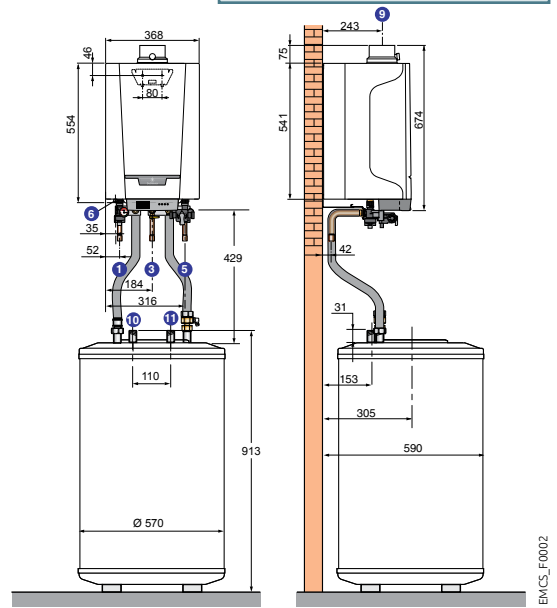
PMC-S 24 and 34 /SRB 130 6.1 to 35.7 kW



Enamelled 130 litre DHW calorifier placed under the boiler, protection by magnesium anode

- Boiler/tank connecting pipes included
- DHW sensor delivered
- Packaging: 4 packages

+ point
High sanitary comfort



MODEL

	PMC-S 24/SRB 130	34/SRB 130
Boiler PMC-S 24	HP120	REF. 7716355
Boiler PMC-S 34	HP131	- 7716640
Calorifier SRB 130	EE81	7681039
Connecting pipes boiler/calorifier SRB 130	HR92	7600413
DHW sensor	AD226	100005661

nota: dimensions and legends: see opposite

TECHNICAL SPECIFICATIONS DOMESTIC HOT WATER (boiler see opposite)

Max. operating pressure DHW: 10 bar

MODEL

	PMC-S 24/BMR 80	34/BMR 80	24/SRB 130	34/SRB 130	
Usefull output boiler at 50/30°C	kW	24.8	35.7	24.8	35.7
DHW calorifier capacity	l	75	75	125	125
DHW exchanged power	kW	20.6	22,1	22.5	24
Flow over 10 min at ΔT = 30 K	l/10 min	162	162	201	210
Flow per hour at ΔT = 35 K	l/h	505	544	560	589
Specific rate at ΔT = 30 K (compliance with EN 13203-1)	l/min	16,2	16,2	20	21
Coefficient of heat losses	W/K	1.26	1.26	1.28	1.09
Shipping weight	kg	75	78	95	98

DHW performances at room temperature 20°C, cold water temp. 10°C, primary hot water temp. 80°C, storage temp. 60°C

EASYLIFE



Naneo S

PMC-S...MI from 6.1 to 35.7 kW

+ point

Compact and 3 stars ★★★
DHW performance
New control panel with backlit screen



Boiler of innovative design, very compact: 370 x 550 x 360 mm, extremely light

- Equipped and set to operate on natural gases, adaptable to propane
- Can be connected to a vertical/horizontal forced flue to a chimney, in bi-flow or on a collective flue system (options)
- Low pollutant emissions: NOx < 60 mg/kWh
- Compact exchanger, molded cast alloy Aluminium/Silicium, high efficiency
- Air/gas module with gas burner, modulating from 24 to 100% of output, with a non return valve to run with pressurised evacuation system, the central unit, the

venturi, the fan with air intake silencer and the gas supply pipe

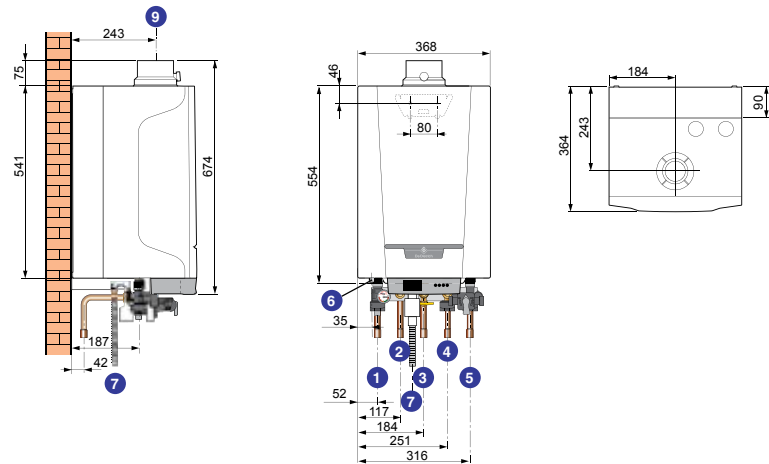
- Hydraulic module integrating pump, the heating/DHW reversal valve, the stainless steel plate exchanger of large dimension for DHW production, the 3-bar heating safety valve, the flow limiter, the flow switch...
- 8 litre expansion vessel integrated in the support frame
- Depending on the installation (new or existing), various hydraulic accessories will be ordered (see options on the following pages)
- Removable control panel, located under the boiler, can be deported to the wall,
- Packaging: 1 package

N° CE 0063CS3718

OPTIONS: see following pages/ **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

- ① Heating flow Ø 18 mm int.
- ② DHW outlet Ø 16 mm int.
- ③ Gas inlet Ø 18 mm int.
- ④ Domestic cold water inlet Ø 16 mm int.
- ⑤ Heating return Ø 18 mm int.
- ⑥ Safety valve outlet pipe Ø 15 mm
- ⑦ Condensates drain Ø 25 mm
- ⑧ Evacuation of combustion products and air inlet pipe Ø 60/100 mm



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C
Max. operating pressure: 3 bar

Safety thermostat: 110°C
Power supply: 230 V/50 Hz

Protection index: IP X4D
NOx classification: 6

Classification: B₂₃, B_{23P}, B₃₃, C_{13(x)}, C_{33(x)}, C_{43(x)}, C₅₃, C_{63(x)}, C_{83(x)}, C_{83P}, C_{93(x)}, C_{103(x)}, C_{123(x)}

MODEL

	PMC-S	24/28 MI	30/35 MI	34/39 MI
Useful output at 50/30°C (heating mode)	kW	6.1-24.8	8.5-31.0	8.5-35.7
Nominal output at 80/60°C (DHW mode)	kW	27.5	33.9	37.8
Efficiency at ...% output and ...°C water temperature	- 100% Pn at average temp. 70°C	%	99.1	99.3
	- 100% Pn at return temp. 30°C	%	103.3	102.4
	- 30% Pn at return temp. 30°C	%	110.5	110.4
Seasonal space heating energy efficiency (without contribution of regulation)	%	94	94	94
Stand-by losses at ΔT = 30 K	W	35	45	45
Auxiliary electrical power (ex. heating pump) at Pn	W	40	47	61
Electrical power heating pump	W	24	24	24
Electrical power at zero load	W	3	3	3
Min./max. useful output at 80/60°C (heating mode)	kW	5.5-23.8	7.7-29.8	7.7-34.7
Manometric height available heating circuit at Pn	mbar	203	267	144
Water content	l	1.6	1.7	1.7
Flue gas pressure available	Pa	116	105	120
Exchanged power	kW	27.5	33.9	37.8
Specific rate at ΔT = 30 K (compliance with EN 13203-1)	l/min	14	17	19
Net weight	kg	26	29	29

DHW performances at room temperature 20°C, cold water temp. 10°C, primary hot water temp. 85°C

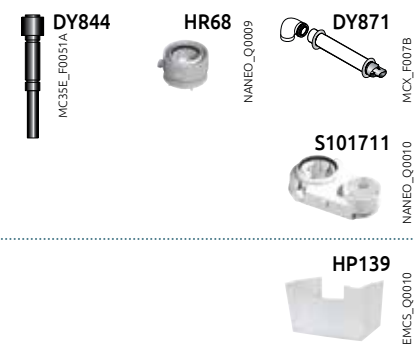
MODEL

	PMC-S	24/28 MI	30/35 MI	34/39 MI
Package		HP121	HP122	HP123
Ref.		7716356	7716357	7716358

OPTIONS AND HYDRAULIC ACCESSORIES

FOR PMC-S

Below the list of hydraulic connection accessories to be ordered in the following cases:

STANDARD	WITH RISING COLUMN
<p>PACKAGE TO ORDER:</p> <ul style="list-style-type: none"> • For PMC-S...: <ul style="list-style-type: none"> Mounting frame, Ref. 7784178 + Hydraulic connection, Ref. 7792019 or Mounting frame with automatic filling, Ref. 7785885 + Hydraulic connection kit, Ref. 7792019 or Simplified connecting set HR101, Ref. 7602336 <ul style="list-style-type: none"> • For PMC-S... MI: <ul style="list-style-type: none"> Mounting frame Ref. 7784177 + Hydraulic connection kit, Ref. 7792019 or Mounting frame with automatic filling, Ref. 7785884 + Hydraulic connection kit, Ref. 7792019 or Simplified connecting set HR102, Ref. 7602337 	<p>PACKAGE TO ORDER:</p> <ul style="list-style-type: none"> • For PMC-S...: <ul style="list-style-type: none"> Mounting frame, Ref. 7784178 or Mounting frame with automatic filling, Ref. 7785885 + Height adjustment, HR79 (depth 39 mm), Ref. S103219 + Piping kit for stand-off frame, Ref. 7792812 <ul style="list-style-type: none"> • For PMC-S... MI: <ul style="list-style-type: none"> Mounting frame, Ref. 7784177 or Mounting frame with automatic filling, Ref. 7785884 + Height adjustment HR79 (depth 39 mm), Ref. S103219 + Piping kit for stand-off frame, Ref. 7792812
<p>Air/flue gas connection:</p> <ul style="list-style-type: none"> - Horizontal wall terminal package DY871, Ref. 100008296 or - Vertical terminal package DY843, Ref. 100002732 (black) or package DY844, Ref. 100002733 (red) + Adapter package HR68, Ref. S101688 or - Any other components according to the selected configuration type (for example package DY921 to connect on a shared flue system 3CEp, etc...) or - Adapter bi-flow 2 x Ø 80 mmv HR70, Ref. S101711 <p>See chapter 15</p>	 <p>DY844 MC3SE_F0051A</p> <p>HR68 NANEO_Q0009</p> <p>DY871 MCX_F007B</p> <p>S101711 NANEO_Q0010</p> <p>HP139 EMCS_Q0010</p>
<p>OPTIONS:</p> <p>Pipe cover (provides a neat finish underneath the boiler)</p> <ul style="list-style-type: none"> • for PMC-S... and PMC-S...MI: package HP139, Ref. 7683755 	

OPTIONS

FOR PMC-S

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

	PACKAGE	REF.
Flue gas temperature sensor kit	HR71	5101690
Cleaning tool plate exchanger (PMC-S... MI, PMC-S only)	HR82	5101708
Condensate neutralisation tank DN 1	SA1	7613605
Wall bracket for neutralisation tank DN 1	SA2	7613606
Granule refill for neutralisation tank*	-	94225601
Hydraulic module for 2 circuits (with pump with Energy Efficiency Index EEI < 0.23)	EA145	100020169
Solar kit	HP143	7695138
Flue gas adapter Ø 80/125 mm	HR68	5101688
Connecting kit for shared flue system 3 CEP, Ø 80/125 mm	DY921	100020019
Adapter bi-flow 2 x Ø 80 mm	HR70	5101711
Mounting frame with automatic filling for PMC-S MI...	-	7785884
Mounting frame with automatic filling for PMC-S 24, 34	-	7785885

* To be ordered at the spare parts department.

DHW PRODUCTION

	PACKAGE	REF.
instant water production with PMC-S...MI		see previous pages
using independent calorifier		see chapter 08
with option for PMC-S...:		
- calorifier BMR 80	EE53	100005562
connecting kit BMR 80/PMC-S...	HR93	7601255
- calorifier SRB 130	EE81	7681039
connecting kit SRB 130/PMC-S...	HR92	7600413
DHW temperature sensor (lg 5 m)	AD226	100005661

OTHER HYDRAULIC ACCESSORIES

see previous page



CONTROL UNITS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Control panel	Circuit type	Circuit diagrams		
		DHW	direct	direct + valve
PMC-S...		AD226 (1)	as standard (2)	AD290
PMC-S...MI		as standard (1)	as standard (2)	AD290

Control system that operates according to the room or outside temp.:

- (1) To enable programming of the DHW function, modulating room temperature thermostats AD304, AD303 or AD324 is necessary
- (2) To be complemented where needed by:
- If you want a control system that operates according to room temperature: room temp. thermostat (package AD337, AD338, AD301, AD304, AD303, AD324 or AD341)
 - If you want a control system that operates according to outside temperature:
 - outside temperature sensor, package FM46 or AD346* (radio)
 - outside temp. sensor + room thermostat (package AD337, AD338, AD301, AD304, AD303, AD324 or AD341)

*Package AD346 in combination with AD341

CONTROL UNITS

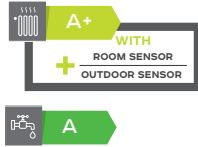
	PACKAGE	REF.
Room thermostat:		
• Non-programmable room thermostat (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
Connected room thermostat:		
• SMART TC ² , R-BUS (wire)	AD324	7691375
• SMART TC ² RF (wireless)	AD341	7691377
Modulating room thermostat:		
• Non programmable "OpenTherm" with room sensor (wire)	AD301	7612097
• Programmable with energy metering function (wireless)	AD303	7609762
• Programmable with energy metering function (wire)	AD304	7609763
Sensor:		
• Outside sensor	FM46	85757741
• DHW temperature sensor	AD226	100005661
• Outside sensor (wireless) only in combination with the AD341*	AD346	7776874
Module to control 2 circuits	AD290	5103303

* need to order the connected room sensor AD341

EXAMPLES OF INSTALLATION

FOR PMC-S

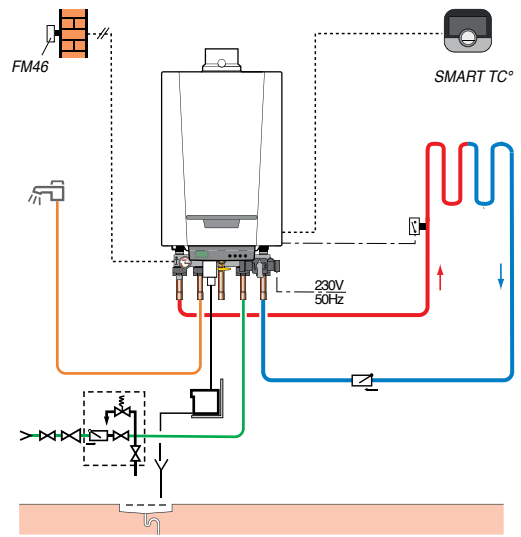
Naneo S PMC-S... MI



- 1 direct circuit (without mixing valve)

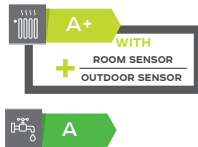
DESCRIPTION

	PACKAGE	REF
PMC-S 24/28 MI	HP121	7716356
Mounting frame	-	7784177
Hydraulic connection kit	-	7792019
Options		
- Connected room thermostat SMART TC [®] , R-BUS (wire)	AD324	7691375
- Outside sensor	FM46	85757741



EMCS_F0004

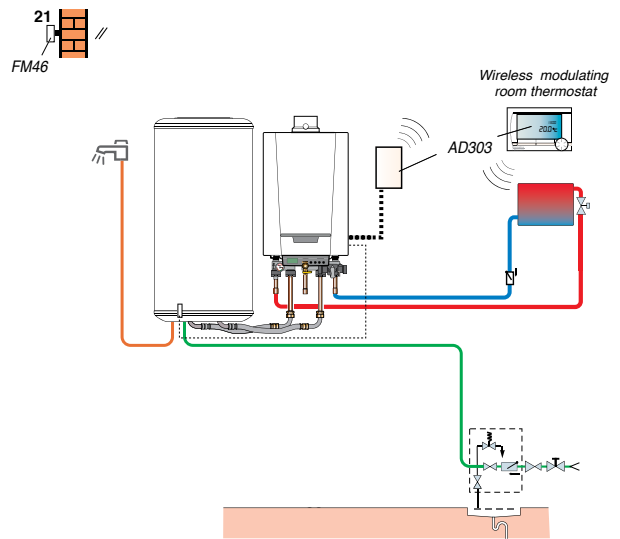
Naneo S PMC-S 24 + BMR 80



- 1 direct circuit
- DHW production

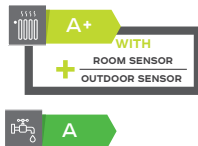
DESCRIPTION

	PACKAGE	REF
PMC-S 24	HP120	7716355
Mounting frame	-	7784178
Calorifier BMR 80	EE53	10000562
Connecting pipes BMR 80/PMC-M 24	HR93	7601255
DHW temperature sensor (lg 5 m)	AD226	100005661
Outdoor sensor	FM46	85757741
Options		
- Programmable modulating room thermostat (wireless) with energy metering function	AD303	7609762



EMCS_F0005

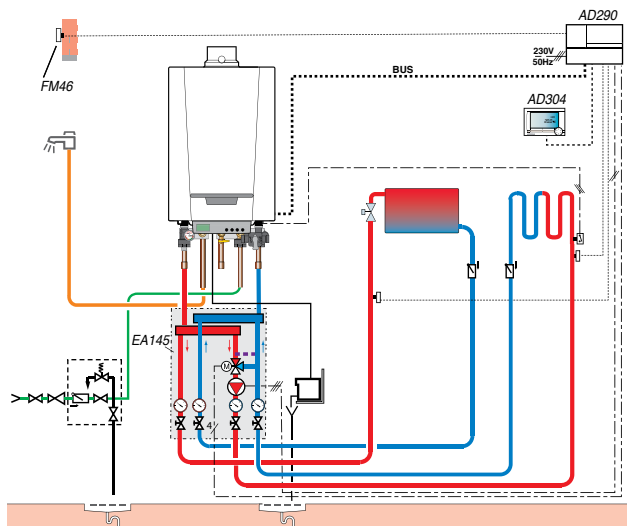
Naneo S PMC-S 24/28 MI



- 1 direct circuit
- 1 circuit with mixing valve

DESCRIPTION

	PACKAGE	REF
PMC-S 24/28 MI	HP121	7716356
Mounting frame	-	7784177
Hydraulic connecting kit	-	7792019
Hydraulic module for 2 circuits	EA145	100020169
Module to control 2 circuits	AD290	5103303
Outdoor sensor	FM46	85757741
Options		
- Programmable modulating room thermostat (wire) with energy metering function	AD304	27609763



EMCS_F0006

EASYLIFE



Naneo S

EMC-S 24, 34 from 6.1 to 35.7 kW



point
Optional automatic filling
Reduced dimensions and weight
Easy installation and maintenance
New control panel with backlit screen

Factory-preset boiler, highly compact and extremely light for a sealed connection

- Equipped and adjusted to run on natural gas
- Supplied with horizontal or vertical forced flue
- Low pollutant emissions: NOx < 60 mg/kWh
- Compact exchanger, moulded in an aluminium/silicon alloy
- Air-to-gas module integrating the gas burner modulating the output from 24 to 100 % and non-return valve for 3CEp systems (collective duct for sealed pressure boilers)
- Hydraulic module with the modulating heating pump, the heating/hot water reversing valve, the

3-bar heating safety valve, the flow limiter, the 8-litre expansion vessel

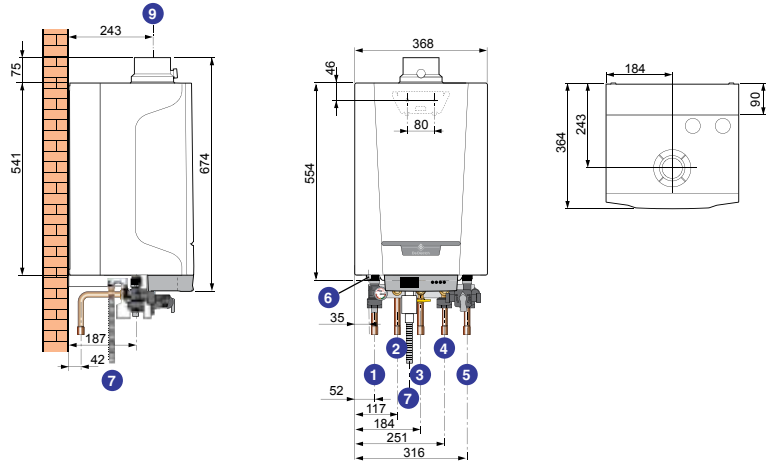
- Complete mounting frame with prefitted water and gas valves (frame enabling automatic filling as an option)
- Extremely simple to use control module with backlit screen: removable, located underneath the boiler, with the option to attach it to the wall to set the heating and DHW temperatures (see Control system options section)
- **Packaging:** 1 package excluding forced flue

N° CE 0063CS3718

OPTIONS: see following pages/ **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

- ① Heating flow Ø 18 mm int.
- ② Primary tank outlet Ø 16 mm int. (if exists)
- ③ Gas inlet Ø 18 mm int.
- ④ Primary tank return Ø 16 mm int. (if exists)
- ⑤ Heating return Ø 18 mm int.
- ⑥ Safety valve outlet pipe Ø 15 mm
- ⑦ Condensates drain Ø 25 mm
- ⑧ Evacuation of combustion products and air inlet pipe Ø 60/100 mm
- ⑩ DHW outlet R 3/4"
- ⑪ Domestic cold water inlet R 3/4"



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C
Max. operating pressure: 3 bar

Safety thermostat: 110°C
Power supply: 230 V/50 Hz

Protection index: IP X4D
NOx classification: 6

Classification: B₂₃, B_{23P}, B₃₃, C_{13(x)},
C_{33(x)}, C_{63(x)}, C₅₃, C_{93(x)},
C_{83(x)}, C_{43(x)}, C_{(10)3(x)},
C_{(12)3(x)}

MODEL

	EMC-S	24	34
Useful output at 50/30°C Pn (heating mode)	kW	6.1-24.8	8.5 - 35.7
Efficiency at ...% output and ...°C water temperature	- 100% Pn at average temp. 70°C - 100% Pn at return temp. 30°C - 30% Pn at return temp. 30°C	%	99.1 99.3
		%	103.3 102.4
		%	110.5 110.4
Seasonal space heating energy efficiency (without contribution of regulation)	%	94	94
Water flow at ΔT = 20 K	m ³ /h	1.03	Consult us
Min./max. useful output at 80/60°C	kW	5.5-23.8	7.7 - 34.7
Manometric height available heating circuit	mbar	212	144
Water content	l	1.4	1.5
Gas flow at Pn (15°C, 1013 mbar)	- natural gas H - propane	m ³ /h	2.54 3.68
		m ³ /h	0.98 1.42
Flue gas temperature at 80/60°C	°C	78	82
Min./max flue gas mass flow rate	kg/h	9.4/38.7	13.1/56.2
Flue gas pressure available	Pa	80	105
Net weight	kg	25	28

MODEL

	EMC-S	24	34
Package		HP146	HP151
Ref.		7792984	7792989

GAS

WALL-HUNG GAS CONDENSING BOILER, FOR HEATING AND DOMESTIC HOT WATER PRODUCTION

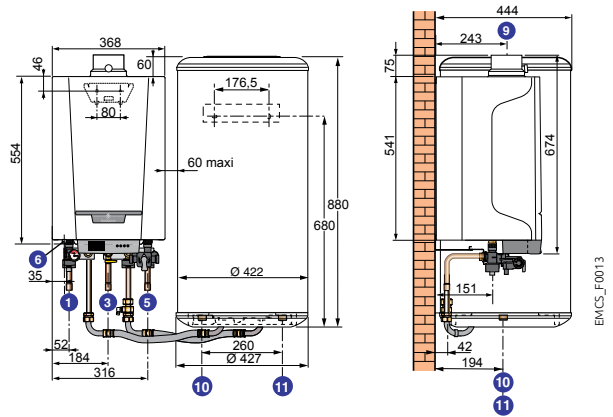


Naneo S

EMC-S 24 and 34/BMR 80 from 6,1 to 35.7 kW

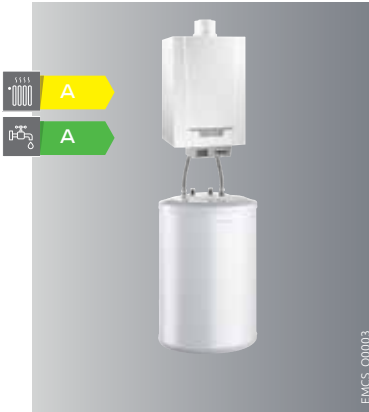


- Enamelled 80 litre DHW calorifier placed to the right or the left of the boiler, protection by magnesium anode
- Boiler/tank connecting pipes included
- DHW sensor delivered
- Packaging: 4 packages



MODEL

	EMC-S 24/BMR 80	34/BMR 80
Boiler EMC-S 24	HP146	7792984
Boiler EMC-S 34	HP151	-
Calorifier BMR 80	EE53	100005562
Connecting pipes boiler/calorifier BMR 80	HR93	7601255
DHW sensor	AD226	100005661



Naneo S

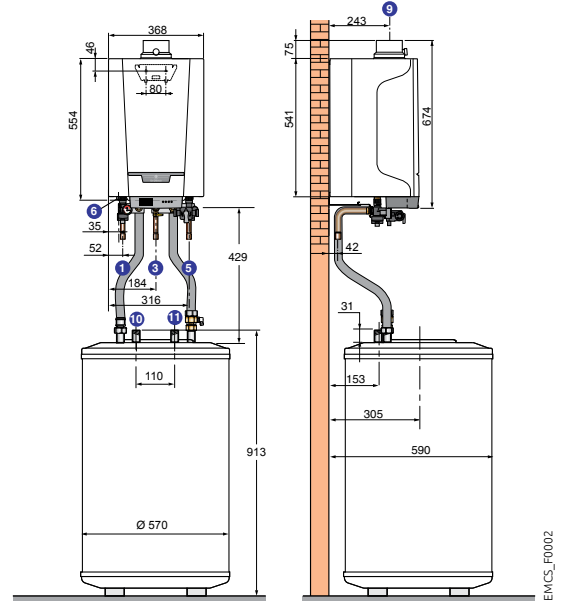
EMC-S 24 and 34/SRB 130 from 6,1 to 35.7 kW



- Enamelled 130 litre DHW calorifier placed under the boiler, protection by magnesium anode
- Boiler/tank connecting pipes included
- DHW sensor delivered
- Packaging: 4 packages



High sanitary comfort



MODEL

	EMC-S 24/SRB 130	34/SRB 130
Boiler EMC-S 24	HP149	7792984
Boiler EMC-S 34	HP151	-
Calorifier SRB 130	EE81	7681039
Connecting pipes boiler/calorifier SRB 130	HR92	7600413
DHW sensor	AD226	100005661

nota: dimensions and legends: see opposite

TECHNICAL SPECIFICATIONS DOMESTIC HOT WATER (boiler see opposite)

Max. operating pressure DHW: 10 bar

MODEL

	EMC-S 24/BMR 80	34/BMR 80	24/SRB 130	34/SRB 130	
Usefull output boiler at 50/30°C	kW	24.8	35.7	24.8	35.7
DHW calorifier capacity	l	75	75	125	125
DHW exchanged power	kW	20.6	22.1	22.5	24
Flow over 10 min at ΔT = 30 K	l/10 min	162	162	201	210
Flow per hour at ΔT = 35 K	l/h	505	544	560	589
Specific rate at ΔT = 30 K (compliance with EN 13203-1)	l/min	16.2	16.2	20	21
Coefficient of heat losses	W/K	1.26	1.26	1.09	1.09
Shipping weight	kg	75	78	95	98

DHW performances at room temperature 20°C, cold water temp. 10°C, primary hot water temp. 80°C, storage temp. 60°C

GAS

WALL-HUNG GAS CONDENSING BOILER, FOR HEATING AND DOMESTIC HOT WATER PRODUCTION

EASYLIFE



Naneo S

EMC-S... MI from 6,1 to 35.7 kW

point

Optional automatic filling
Compact and high-performance
*** domestic hot water
New control panel with backlit screen



Boiler of innovative design, very compact: 370 x 550 x 360 mm, extremely light: 26 kg

- Equipped and set to operate on natural gases, adaptable to propane
- Can be connected with a horizontal or vertical forced flue, to a chimney, in bi-flow or on a collective flue system (options)
- Low pollutant emissions: NOx < 60 mg/kWh
- Compact exchanger, molded cast alloy Aluminium/Silicium
- Air/gas module with gas burner, modulating from 24 to 100% of output, with a non return valve to run with pressurised evacuation system, the central unit, the venturi, the fan with air intake silencer and the gas supply pipe

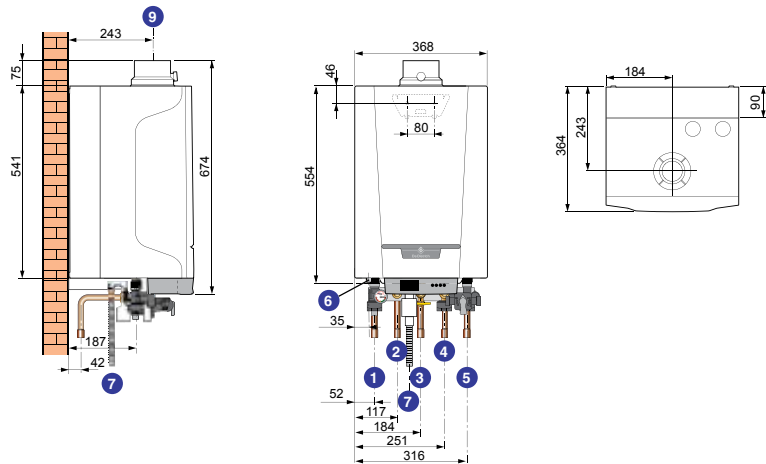
- Hydraulic module integrating the modulating pump, the heating/DHW reversal valve, the stainless steel plate exchanger for DHW production, the 3-bar heating safety valve, the flow limiter, the flow switch...
- 8 litre expansion vessel integrated in the support frame
- Mounting frame (delivered) with prefitted water and gas valves, disconnecter (outlet and return valves, and disconnecter in composite material), mechanical manometer, flow collector and connecting pipes kit ((autofilling system as an option)
- Removable control panel, located under the boiler, can be deported to the wall
- Packaging: 1 package

N° CE 0063CS3718

OPTIONS: see next page/ FLUE SYSTEMS: see chapter 14

MAIN DIMENSIONS (mm and inches)

- Heating flow Ø 18 mm int.
- DHW outlet Ø 16 mm int.
- Gas inlet Ø 18 mm int.
- Domestic cold water inlet Ø 16 mm int.
- Heating return Ø 18 mm int.
- Safety valve outlet pipe Ø 15 mm
- Condensates drain Ø 25 mm
- Evacuation of combustion products and air inlet pipe Ø 60/100 mm



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C
Max. operating pressure: 3 bar

Safety thermostat: 110°C
Power supply: 230 V/50 Hz

Protection index: IP X4D
NOx classification: 6

Classification: B₂₃, B_{23P}, B₃₃, C₁₃(x),
C₃₃(x), C₆₃(x), C₉₃(x), C₅₃,
C₄₃(x), C₈₃(x), C₁₀₃(x),
C₁₂₃(x)

BOILER TYPE

	EMC-S	24/28 MI	30/35 MI	34/39 MI
Useful output at 50/30°C Pn (heating mode)	kW	6.1-24.8	8.5-31.0	8.5-35.7
Nominal output at 80/60°C (DHW mode)	kW	27.5	33.9	37.8
Efficiency at ...%	{ - 100% Pn at average temp. 70°C - 100% Pn at return temp. 30°C - 30% Pn at return temp. 30°C	%	99.1	99.3
output and ...°C		%	103.3	103.3
water temperature		%	110.5	110.4
Seasonal space heating energy efficiency (without contribution of regulation)		94	94	94
Water flow at ΔT = 20 K	m ³ /h	1.03	1.25	1.50
Min./max. useful output range at 80/60°C	kW	5.5-23.8	7.7-29.8	7.7-34.7
Manometric height available heating circuit	mbar	203	267	144
Water content	l	1.6	1.7	1.7
Gas flow at Pn	{ - natural gas H - propane	m ³ /h	2.98	3.68
(15°C, 1013 mbar)		m ³ /h	1.15	1.42
Flue gas temperature at 80/60°C	°C	84	82	86
Min./max. flue gas mass flow rate	kg/h	9.4/45.5	13.1/56.3	13.1/62.9
Flue gas pressure available	Pa	116	105	120
Exchanged power	kW	27.5	33.9	37.8
Specific rate at ΔT = 30 K (compliance with EN 13203-1)	l/min	14	17.3	18.9
Net weight	kg	26	29	29

MODEL






	EMC-S	24/28 MI	30/35 MI	34/39 MI
Package		HP145	HP147	HP144
Ref.		7792983	7792985	7792982

HYDRAULIC ACCESSORIES

FOR NANEQ EMC-S (INSTALLATION WITH RISING COLUMN OR REPLACING AN EXISTING BOILER)

Below the list of hydraulic connection accessories to be ordered in the following cases:

NEW INSTALLATION

STANDARD	WITH RISING COLUMN
<p>NOTA:</p> <ul style="list-style-type: none"> For EMC-S boilers, hydraulic connection accessories: mounting frame with water and gas connecting pipes are delivered with the boiler <p>OPTIONS:</p> <ul style="list-style-type: none"> For EMC-S 24, 34: Valve for automatic filling: package HP137, Ref. 7693938 For EMC-S.. MI: Valve for automatic filling: package HP138, Ref. 7723463 	<p>PACKAGE TO ORDER:</p> <ul style="list-style-type: none"> EMC-S 24 and EMC-S... MI, Height adjustment frame: package HR79, Ref. S103219 Hydraulic connection pipe for height adjustment frame: package HR80, Ref. 7792812
<p>Air/flue gas connection:</p> <ul style="list-style-type: none"> - Horizontal wall terminal package DY871, Ref. 100008296 or - Vertical terminal package DY843, Ref. 100002732 (black) or package DY844, Ref. 100002733 (red) + Adapter package HR68, Ref. S101688 or - Any other components according to the selected configuration type (for example package DY921 to connect on a shared flue system 3CEp, etc...) or - Adapter bi-flow 2 x Ø 80 mmv HR70, Ref. S101711 <p>See chapter 15</p>	 DY844 MC3SE_F0051/A  HR68 NANEQ_Q0009  DY871 MCX_F007/B  S101711 NANEQ_Q0010
<p>OPTIONS:</p> <ul style="list-style-type: none"> Pipe cover, package HP139, Ref. 7683755 	 HP139 EMCS_Q0010

OPTIONS

FOR NANE0 EMC-S

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

	PACKAGE	REF.
Solar kit	HP143	7695138
Flue gas temperature sensor kit	HR71	5101690
Unit cleaning heat exchanger (only EMC-S and PMC-S... MI)	HR82	5101708
Condensate neutralisation station DN 1	SA1	7613605
Wall bracket for neutralisation station DN 1	SA2	7613606
Neutralisation granule refill 10 kg *	-	94225601
Connection kit 3 CEP, Ø 80/125 mm	DY921	100020019
Adapter biflow 2 x Ø 80 mm	HR70	5101711
Flue gas adapter low profile Ø 60/100 mm	HR67	5101712
Horizontal terminal PPS Ø 60/100 mm	DY871	100008296
Flue gas adapter Ø 80/125 mm	HR68	5101688
Vertical flue terminal PPS Ø 80/125 mm black	DY843	100002732
Vertical flue terminal PPS Ø 80/125 mm red	DY844	100002733
Valve for automatic filling (for EMC-S 24, 34)	HP137	7693938
Valve for automatic filling (for EMC-S..MI)	HP138	7723463

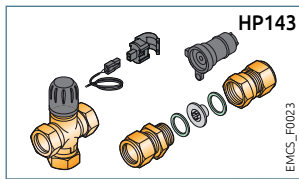
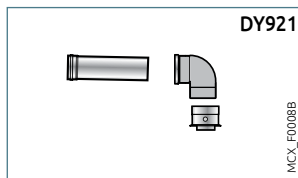
* To be ordered at the spare parts department.

DHW PRODUCTION

	PACKAGE	REF.
• With BMR 80 calorifier juxtaposed or SR 130 calorifier placed under the boiler EMC-S 24		see previous pages
• Instant DHW production		see previous pages
• Using independent calorifier BPB/BLC...		see chapter 08
DHW temperature sensor (length 5 m)	AD226	100005661

OTHER HYDRAULIC ACCESSORIES

see previous pages



CONTROL UNITS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Control panel NANE0 S	EMC-S...	Circuit type	
		DHW	direct
	EMC-S...	AD226 (1)	as standard (2)
	EMC-S... MI EMC-S.../BS...	as standard (1)	as standard (2)

Control system that operates according to the room or outside temp.:

- To enable programming of the DHW function, modulating room temperature thermostats AD303, AD304 or AD324 is necessary
- To be complemented where needed by:
 - If you want a control system that operates according to room temperature: room temp. thermostat (package AD337, AD338, AD140, AD301, AD303, AD304, AD324) or AD341
 - If you want a control system that operates according to outside temperature:
 - outside temperature sensor (package FM46 or AD346*(radio))
 - outside temp. sensor (package FM46 or AD346* (radio)) + room thermostat (package AD337, AD338, AD140, AD301, AD303, AD304, AD324 or AD341)

*Package AD346 in combination with AD341

CONTROL UNITS

	PACKAGE	REF.
Room thermostat:		
• Non-programmable room thermostat (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
Connected room thermostat:		
• SMART TC°, R-BUS (wire)	AD324	7691375
• SMART TC° RF (wireless)	AD341	7691377
Modulating room thermostat:		
• Programmable (wireless) (for East Europe)	AD288	5103295
• Programmable (wire) (for East Europe)	AD289	5103293
• Non programmable "OpenTherm" with room sensor (wire)	AD301	7612097
• Programmable with energy metering function (wireless)	AD303	7609762
• Programmable with energy metering function (wire)	AD304	7609763
Sensor:		
• Outside sensor	FM46	85757741
• DHW sensor	AD226	100005661
• Outside sensor (wireless) only in combination with the AD341*	AD346	7776874
2-circuit control module	AD290	5103303

* need to order the connected room sensor AD341

EXAMPLES OF INSTALLATION

FOR Naneo EMC-S

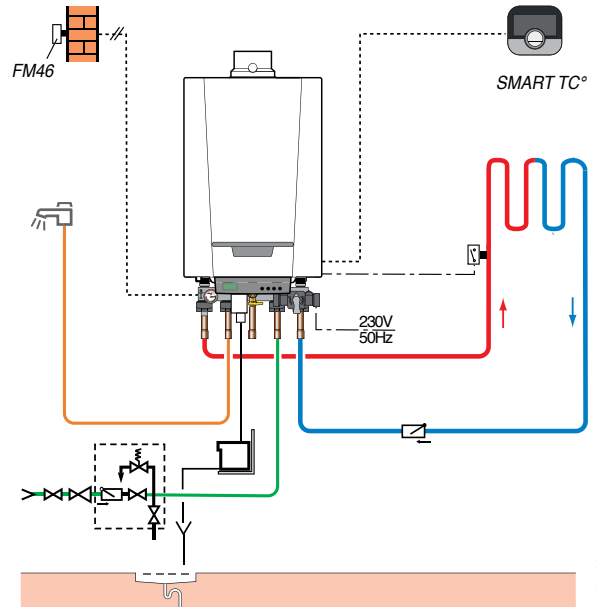
Naneo S EMC-S 24/28 MI



- 1 direct circuit (without mixing valve)

DESCRIPTION

	PACKAGE	REF
EMC-S 24/28 MI	HP145	7792983
Options		
- Connected room thermostat SMART TC°, R-BUS (wire)	AD324	7691375
- Outside sensor	FM46	85757741



EMCS_F0004

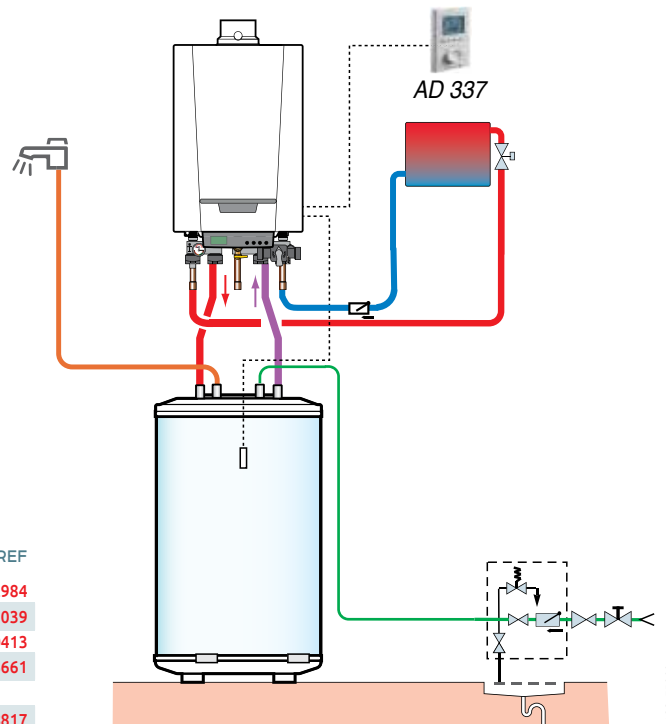
Naneo S EMC-S 24/ SRB 130



- 1 direct circuit (without mixing valve)

DESCRIPTION

	PACKAGE	REF
EMC-S 24	HP146	7792984
Calorifier SRB 130	EE81	7681039
Connection set for tank SRB 130	HR92	7600413
DHW sensor	AD226	100005661
Option		
Programmable (wired with battery)	AD337	7768817



EMCS_FS000

EASYLIFE

Vivadens

MCR-P 24/28 BIC PLUS from 6.3 to 24 kW

point

The most compact and competitive condensing offer



- Equipped to operate on natural gases and can be converted to propane
- Can be connected to an horizontal or vertical flue terminal, chimney or in bi-flow or on a collective flue system (options)
- Annual operating efficiency up to 109%
- Low pollutant emissions: NOx < 70mg/kWh,
- Stainless steel exchanger with double external envelope in composite material
- Stainless steel total premix modulating from 25 to 100% of the output
- Fan with air intake silencer
- Electronic ignition and ionisation flame check
- Fully equipped boiler: heating circulating pump, expansion vessel, heating/DHW reversal valve, automatic air/vent
- Mounting frame for prefitted water and gas valves (option)
- Enamelled 40 litre DHW calorifier integrated in the boiler, protection by magnesium anode, specific flow at Δt 30 K: 18 l/min
- Compact: width 600mm
- Boiler/tank connecting pipes included
- DHW sensor delivered
- Simple and functional control panel
- Packaging: 1 package

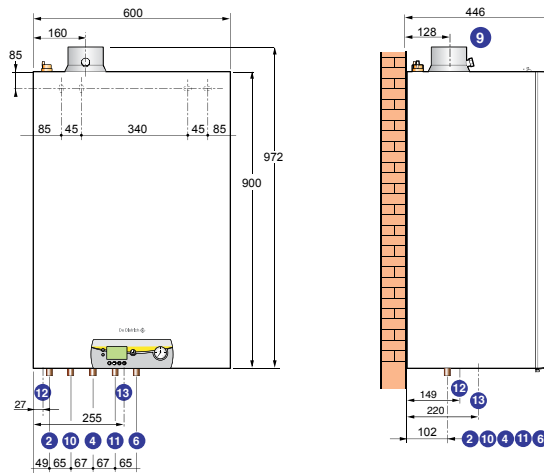
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OPTIONS: see following pages/ **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

	MCR-P 24 BIC PLUS
② Heating flow	G 3/4"
③ Primary tank outlet	-
④ Gas inlet	G 1/2"
⑤ Primary tank return	-
⑥ Heating return	G 3/4"
⑨ Evacuation of combustion products and air inlet pipe Ø(mm)	60/100
⑩ DHW outlet	G 1/2"
⑪ Domestic cold water inlet	G 1/2"
⑫ Condensates drain Ø(mm)	21.5
⑬ Safety valve Ø(mm)	15

R: Threading
G: External cylindrical threading water tightness by flat gasket



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C	• Safety thermostat: 110°C	• Protection index: IP X4D	• Classification: B _{23P} , B ₃₃ , C _{13(x)} , C _{33(x)} , C ₅₃ , C _{63(x)} , C _{93(x)} , C _{83(x)} , C _{43(x)} , C _{(10)3(x)} , C _{(12)3(x)}
Max. operating pressure: 3 bar	• Power supply: 230 V/50 Hz	• NOx classification: 6	

BOILER TYPE

	MCR-P	24/28 BIC PLUS
Useful output at 50/30°C (heating mode)	kW	6.3-25.0
Efficiency at ...%	%	99.1
output and ...°C	%	104.4
water temperature	%	110.2
Seasonal space heating energy efficiency (without contribution of regulation)	%	94
Water flow at ΔT = 20 K	m³/h	1.03
Min./max. useful output range at 80/60°C	kW	5.5-23.8
Manometric height available heating circuit	mbar	> 240
Water content	l	1.8
Gas flow at Pn	m³/h	2.33
(15°C, 1013 mbar)	m³/h	0.9
Flue gas temperature at 80/60°C	°C	80
Electrical power heating pump	W	25
Flue gas pressure available	Pa	100
Net weight	kg	67
DHW tank capacity	L	36.6
Use output in DHW in DHW modus	kW	27.4
Flow over 10 min at ΔT = 30 K	l/10mn	180
Specific rate at ΔT = 30 K (compliance with EN 13203-1)	l/mn	18
Flow per hour at ΔT = 35 K	l/h	670

MODEL

	MCR-P	24/28 BIC
Package		HG154
Ref.		7625458

OPTIONS

FOR VIVADENS MCR-P... PLUS

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

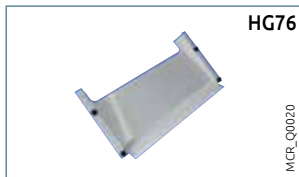
ACCESSORIES

	PACKAGE	REF.
Connection set MCR-P BIC PLUS	S100996	S100996
Mounting frame with prefitted water and gas valves, and disconnecter	HG163	7792220
Pipe cover MCR-P 24/28 BIC PLUS	HG76	117433
DHW expansion vessel MCR-P 24/28 BIC PLUS	HG77	117167
Condensates collector	HG28	100005637
Condensate neutralisation station DN 1	SA1	7613605
Wall bracket for neutralisation station DN 1	SA2	7613606
Neutralisation granule refill 10 kg *	-	94225601
Horizontal air/flue gas terminal Ø 60/100mm with elbow	DY871	100008296
Vertical air/flue gas terminal Ø 80/125mm black	DY843	100002732
Vertical air/flue gas terminal Ø 80/125mm red	DY844	100002733
Adapter Ø 80/125mm	HR38	S100465
Adapter bi-flow Ø 60/100mm to 2 x Ø80mm	DY868	100005825

* To order at the spare parts department

FLUE SYSTEMS

see chapter 14



CONTROL UNITS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Control panel VIVADENS	MCR-P 24/28 BIC PLUS	Circuit type	
		DHW	direct
		as standard (1)	as standard (2)

CONTROL UNITS

	PACKAGE	REF.
Room thermostat:		
• Non-programmable (wired)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
Connected room thermostat:		
• SMART TC° "OT" for on/off connection (wired)	AD311	7649289
• SMART TC° RF (wireless)	AD341	7691377
Modulating room thermostat:		
• Non programmable "OpenTherm" with room sensor (wired)	AD301	7612097
• Programmable with energy metering function (wireless)	AD303	7609762
• Programmable with energy metering function (wired)	AD304	7609763
Sensor:		
• Outside temperature sensor	AD225	100005660

Control system that operates according to the room or outside temp.:

(1) To enable programming of the DHW function, modulating room temperature thermostats AD303, AD304 or AD311 is necessary

(2) To be complemented where needed by:

- If you want a control system that operates according to room temperature: room temp. thermostat (package AD337, AD338, AD140, AD301, AD303, AD304 or AD311)

- If you want a control system that operates according to outside temperature: • outside temperature sensor, package AD225

• outside temp. sensor + room thermostat (package AD337, AD338, AD140, AD301, AD303, AD304 or AD311)

GAS

WALL-HUNG GAS CONDENSING BOILER FOR HEATING

EASYLIFE



MPX 24 COMPACT from 3.7 to 26.1 kW



point

Modulation from 14 to 100%
with GCO system

Hydrogen 20%

Wall-hung condensing boiler, fully pre-set, equipped to operate with natural gas or propane

- Very low polluting emissions
- **Stainless steel spiral exchanger** with double external envelope in composite material, automatic venting function upon commissioning,
- Air/gas module with **gas burner, modulating from 14 to 100% of output**, automatic system GCO to manage the combustion,
- Brass hydroblock, with modulating heating pump, automatic by-pass, the heating/DHW reversal valve, the 3 bar safety valve, the manometer, 8 liter expansion vessel.

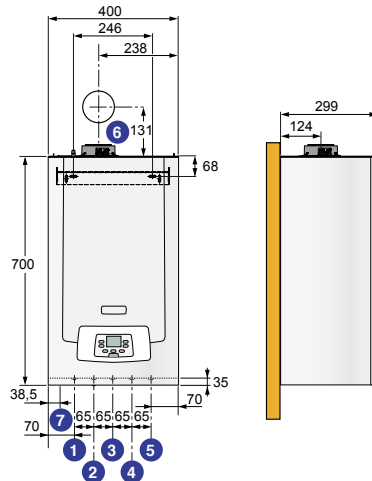
- **Simple and functional control panel** with backlit screen, heating and DHW temperature setting buttons, access button to all the setting parameters and error codes display with history.
- **Packaging: 1 package**

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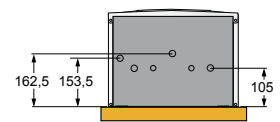
OPTIONS: see following pages/ **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

- ① Heating flow G 3/4"
- ② Primary calorifier outlet (if exists) G 1/2"
- ③ Gas inlet G 3/4"
- ④ Primary calorifier return (if exists) G 1/2"
- ⑤ Heating return G 3/4"
- ⑥ Evacuation of combustion products and air inlet pipe Ø 60/100 mm
- ⑦ Condensates drain Ø 22 mm



Bottom view



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 80°C	• Safety thermostat: 110°C	• Protection index: IP X4D	• Classification:
Max. operating pressure: 3 bar	• Power supply: 230 V/50 Hz	• NOx classification: 6	• - B ₂₃ , C _{13x} , C _{33x} , C _{53x} , C _{93x} , C _{83x}
			• - B _{23P} , C _{43x} , B ₃₃ , C _{(10)3x} , C _{(12)3x} : consult us

MODEL

MODEL	MPX	24 COMPACT	
Useful nominal output at Pn	kW	24	
Useful output at 50/30°C Pn (heating mode) min.-max.	kW	3.7 - 26.1	
Useful output at 80/60°C (heating mode) min.-max.	kW	3.4 - 24	
Nominal output at 80/60°C (DHW mode)	kW	-	
Efficiency in % of low calorific power at load ... % Pn and water temp. ...°C	%	- 100% Pn at ave. temp. 70°C	
		- 30% Pn at return temp. 30°C	
Seasonal space heating energy efficiency (without contribution of regulation)	%	93	
Nominal water output at ΔT = 20 K	m³/h	1.03	
Manometric height available for heating circuit at ΔT = 20 K	mbar	220	
Water capacity	l	1.5	
Gas flow at Pn (15°C - 1013 mbar)	- gas H	m³/h	2.61
	- gas L	m³/h	3.04
	- propane	kg/h	1.92
Max. flue gas temperature at 80/60°C	°C	80	
Min.-max. flue gas mass. flow rate	kg/s	0.002-0.012	
Flue gas pressure available	Pa	100	
Stand-by losses at ΔT = 30 K	W	35	
Auxiliary electrical power (ex. heating pump) at Pn	W	42	
Electrical power in stand-by	W	3	
Electrical power heating pump	W	23	
Would use "Sound power level", consistent with Inidens	dB(A)	52	
Net weight	kg	30	

MODEL

MODEL	MPX	24 COMPACT
Package		HX111
Ref.		7679071

EASYLIFE



MPX.. MI COMPACT from 3.7 to 30.6 kW

point

Modulation from 14 to 100%
with GCO system



Hydrogen 20°

Wall-hung condensing boiler, fully pre-set, equipped to operate with natural gas or propane

- Very low polluting emissions
- **Stainless steel spiral exchanger** with double external envelope in composite material, automatic venting function upon commissioning,
- Air/gas module with **gas burner, modulating from 14 to 100% of output**, automatic system GCO to manage the combustion,
- Large sized stainless steel plate heat exchanger,
- Brass hydroblock, with modulating heating pump, automatic by-pass, the heating/DHW reversal valve,

the 3 bar safety valve, the manometer, 8 liter expansion vessel.

- **Simple and functional control panel** with backlit screen, heating and DHW temperature setting buttons, access button to all the setting parameters and error codes display with history.
- **Packaging: 1 package**

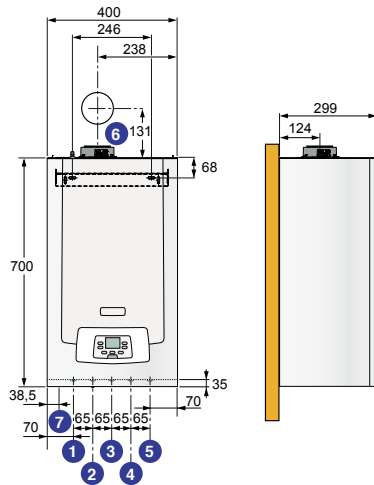
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OPTIONS: see following pages/ **FLUE SYSTEMS:** see chapter 14

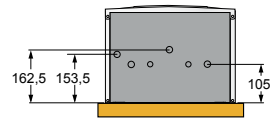
MAIN DIMENSIONS (mm and inches)

- ① Heating flow G 3/4"
- ② DHW outlet G 1/2"
- ③ Gas inlet G 3/4"
- ④ Domestic cold water inlet G 1/2"
- ⑤ Heating return G 3/4"
- ⑥ Evacuation of combustion products and air inlet pipe Ø 60/100 mm
- ⑦ Condensates drain Ø 22 mm

MPX 20/24 MI COMPACT, MPX 24/28 MI COMPACT, MPX 28/33 MI COMPACT



Bottom view



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 80°C	• Safety thermostat: 110°C	• Protection index: IP X4D	• Classification::
Max. operating pressure: 3 bar	• Power supply: 230 V/50 Hz	• NOx classification: 6	• - B ₂₃ , C _{13x} , C _{33x} , C _{53x} , C _{93x} , C _{83x}
			• - B _{23P} , C _{43x} , B ₃₃ , C _{(10)3x} , C _{(12)3x} : consult us

MODEL

	MPX 20/24 MI COMPACT	24/28 MI COMPACT	28/33 MI COMPACT
Useful nominal output at Pn	kW	20	24
Useful output at 50/30°C Pn (heating mode) min.-max.	kW	3.7 - 21.8	4.1 - 26.1
Useful output at 80/60°C (heating mode) min.-max.	kW	3.4 - 20	3.8 - 24
Nominal output at 80/60°C (DHW mode)	kW	24.0	28
Efficiency in % of low calorific power at load ... % Pn and water temp. ...°C	%	97.7	97.6
	%	108.8	108.8
Seasonal space heating energy efficiency (without contribution of regulation)	%	93	93
Nominal water output at ΔT = 20 K	m³/h	0.86	1.03
Manometric height available for heating circuit at ΔT = 20 K	mbar	350	220
Water capacity	l	1.5	1.5
Gas flow at Pn (15°C - 1013 mbar)	m³/h	2.61	3.06
	m³/h	3.04	3.55
	kg/h	1.92	2.25
Max. flue gas temperature at 80/60°C	°C	80	80
Min.-max. flue gas mass. flow rate	kg/s	0.002-0.012	0.002-0.014
Flue gas pressure available	Pa	100	100
Stand-by losses at ΔT = 30 K	W	35	35
Auxiliary electrical power (ex. heating pump) at Pn	W	30	42
Electrical power in stand-by	W	3	3
Electrical power heating pump	W	23	23
Would use "Sound power level", consistent with Inidens	dB(A)	49	48
Exchanged power	kW	24	28
Specific flow at ΔT = 30 K (compliance with EN 13203-1)	l/min	11.5	13.4
Net weight	kg	34	34

MODEL

	MPX 20/24 MI COMPACT	24/28 MI COMPACT	28/33 MI COMPACT
Package	HX105	HX107	HX109
Ref.	7679065	7679067	7679069

GAS

WALL-HUNG GAS CONDENSING BOILER FOR HEATING AND DHW PRODUCTION WITH INTEGRATED CALORIFIER

EASYLIFE



MPX 28/33 BIC

from 5.1 to 30.6 kW



point
Compact
Brass hydraulic module
Modulation from 14 to 100%
With GCO system

Wall-hung condensing boiler, fully pre-set, equipped to operate with natural gas or propane

- Very low polluting emissions
- **Stainless steel spiral exchanger** with double external envelope in composite material, automatic venting function upon commissioning,
- **Air/gas module with gas burner, modulating from 14 to 100% of output**, automatic system GCO to manage the combustion,
- Brass hydroblock, with modulating heating pump, automatic by-pass, the heating/DHW reversal valve, the 3 bar safety valve, the manometer, ..., 10 liter expansion vessel.

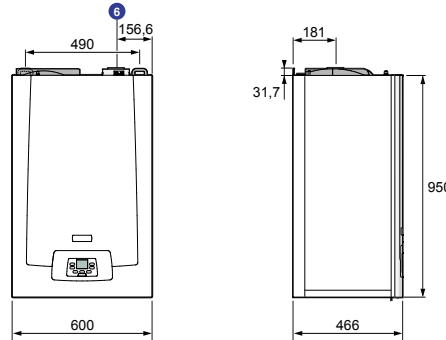
- 45 litre DHW storage stainless steel calorifier protected by a magnesium anode with new graphite insulation,
- **Simple and functional control panel** with backlit screen, heating and DHW temperature setting buttons, access button to all the setting parameters and error codes display with history.
- **Packaging:** 1 package

N° CE 0085CL0214

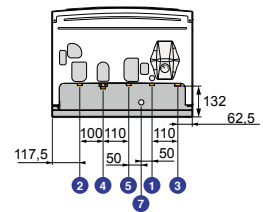
OPTIONS: see following pages/ **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

- ① Heating flow G 3/4"
- ② Domestic hot water outlet G 1/2"
- ③ Gas inlet G 3/4"
- ④ Domestic cold water inlet G 1/2"
- ⑤ Heating return G 3/4"
- ⑥ Evacuation of combustion products and air inlet pipe Ø 60/100 mm
- ⑦ Condensates drain Ø 22 mm



Bottom view



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 80°C
Max. operating pressure: 3 bar

Safety thermostat: 110°C
Power supply: 230 V/50 Hz

Protection index: IP X4D
NOx classification: 6

Classification:
- B₂₃, C_{13x}, C_{33x}, C_{53x}, C_{93x}, C_{83x}
- B_{23P}, C_{43x}, B₃₃, C_{(10)3x}, C_{(12)3x}: **consult us**

MODEL

	MPX	28/33 BIC
Useful nominal output at Pn	kW	28.9
Useful output at 50/30°C Pn (heating mode) min.-max.	kW	5.1 - 30.6
Useful output at 80/60°C (heating mode) min.-max.	kW	4.7 - 28
Nominal output at 80/60°C (DHW mode)	kW	33
Efficiency in % of low calorific power at load ... % Pn and water temp. ... °C	%	97.7
Seasonal space heating energy efficiency (without contribution of regulation)	%	108.9
Nominal water output at ΔT = 20 K	m ³ /h	93
Manometric height available for heating circuit at ΔT = 20 K	mbar	1.21
Water capacity	l	150
Gas flow at Pn (15°C - 1013 mbar)	m ³ /h	1.8
- gas H - gas L - propane	m ³ /h	3.60
	m ³ /h	4.18
	kg/h	2.64
Max. flue gas temperature at 80/60°C	°C	80
Min.-max. flue gas mass. flow rate	kg/s	0.002-0.016
Flue gas pressure available	Pa	100
Stand-by losses at ΔT = 30 K	W	61
Auxiliary electrical power (ex. heating pump) at Pn	W	60
Electrical power in stand-by	W	3
Electrical power heating pump	W	23
Would use "Sound power level", consistent with Inidens	dB(A)	52
Exchanged power	kW	67.5
DHW calorifier capacity	l	45
Exchanged power	kW	34
Flow per hour at ΔT = 35 K	l/h	811
Flow over 10 min at ΔT = 30 K	l/10min	183
Spec. flow at ΔT = 30 K (compliance with EN 13203-1)	l/min	18.3
Coefficient of heat losses	W/K	1.42
Net weight	kg	34

MODEL

	MPX	28/33 BIC
Package		HX112
Ref.		7679072

OPTIONS

FOR MPX

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

	PACKAGE	REF.
Condensates neutralisation station DN1 (up to 75kW)	SA1	7613605
Wall bracket for neutralisation station DN 1	SA2	7613606
Refill aggregates for neutralisation (10 kg)*	-	94225601
Hydraulic modules with pump with energy efficiency index EEI<0.23:		
• For 1 direct circuit	EA143	100020167
• For 1 circuit with mixing valve	EA144	100020168
Insulated collector for 2 or 3 modules	EA140	100020164
Wall console for 1 hydraulic module	EA142	100020166
Console for collector	EA141	100020165
Compact hydraulic module for 2 circuits (with pump with energy efficiency index EE<0.23)	EA145	100020169
Compact hydraulic module for 2 circuits (with 2 pumps with energy efficiency index EEI<0.23 for a direct circuit and a circuit with mixing valve)	MT12	7616233
Solar kit	HX88	7670180
Ø 60/100 mm to Ø 80/125 mm adapter	DY708	84887708
Over pressure flue adapter	HX103	7671879
Bi flow adapter 2 x 80 mm	DY868	100005825
Pipe cover for MPX... MI COMPACT	HX93	7670185
Offset wrench	HX95	7670187

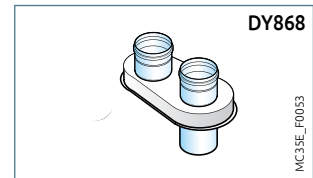
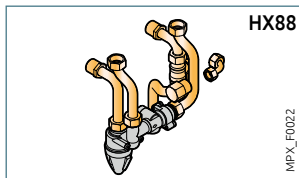
* To order at the spare parts department

DHW PRODUCTION

	PACKAGE	REF.
• Instant on models MPX...MI COMPACT		see previous pages
• option for MPX 24 COMPACT		
- calorifier BMR 80	EE53	100005562
- calorifier SRB130	EE81	7681039
DHW sensor (lg 5 m)	HX96	7670188

HYDRAULIC ACCESSORIES

	PACKAGE	REF.
Stand-off frame (40 mm) for MPX 24/28 MI COMPACT and MPX 28/33 MI COMPACT	HX91	7670183
Hydraulic connection kit for MPX 24 COMPACT	HX113	7679073
Hydraulic connection kit for MPX... MI COMPACT	HX114	7679074
Water and gas connection pipes for replacement of an existing boiler (only for MPX...MI COMPACT)	HX17	100016399



CONTROL UNITS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Control panel MPX	Circuit type	Circuit type		
		DHW	direct	direct + 1 valve
MPX		HX96 (1)	as standard (2)	AD290 (2)
	MPX... MI	as standard (1)	as standard (2)	AD290 (2)

Control system that operates according to the room or outside temperature:

(1) To enable programming of the DHW function, modulating room temperature thermostats AD304, AD303 or AD311 is necessary

(2) To be complemented where needed by:

- If you want a control system that operates according to room temperature: room thermostat (package AD337, AD338, AD345, AD140, AD301, AD304, AD303 or AD311)
- If you want a control system that operates according to outside temperature:
 - Outdoor sensor package HX94
 - Outdoor sensor + room thermostat (package AD337, AD338, AD345, AD140, AD301, AD304, AD303 or AD311)

CONTROL UNITS

	PACKAGE	REF.
Room thermostat:		
• Non-programmable (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
Connected room thermostat:		
• SMART TC "OT" for on/off connection (wire)	AD311	7649289
• SMART TC RF (wireless)*	AD341	7691377
Modulating room thermostat:		
• Non programmable "OpenTherm" with room sensor (wire)	AD301	7612097
• Programmable with energy metering function (wireless)	AD303	7609762
• Programmable with energy metering function (wire)	AD304	7609763
Sensor:		
• Outdoor sensor	HX94	7670186
• DHW sensor	HX96	7670188
2-circuit control module	AD290	5103303
Connection kit for direct underfloor heating	HA249	100003301

* This thermostat is not marketed in all countries, check with your retailer.

EXAMPLES OF INSTALLATION

FOR MPX

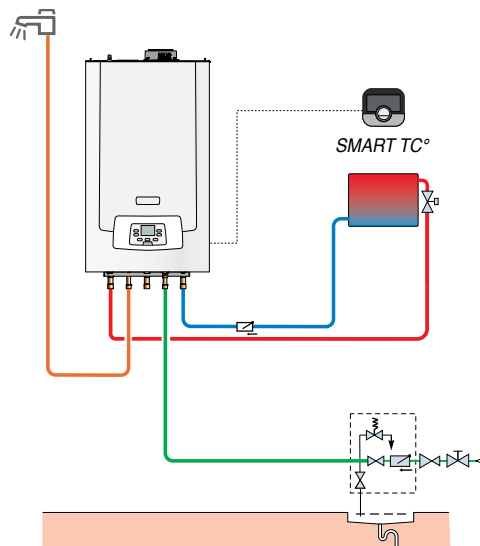
MPX MPX 24/28 MI COMPACT



- 1 direct circuit

DESCRIPTION

	PACKAGE	REF
Boiler MPX 24/28 MI COMPACT	HX107	7679067
Hydraulic connection kit	HX114	7679074
Options		
- Connected room thermostat SMART TC°, "OT" (wire)	AD311	7649289
- Horizontal wall terminal PPS, Ø 60/100 mm, lg 800 mm (with elbow 90°)	DY871	100008296



MPX_F0004

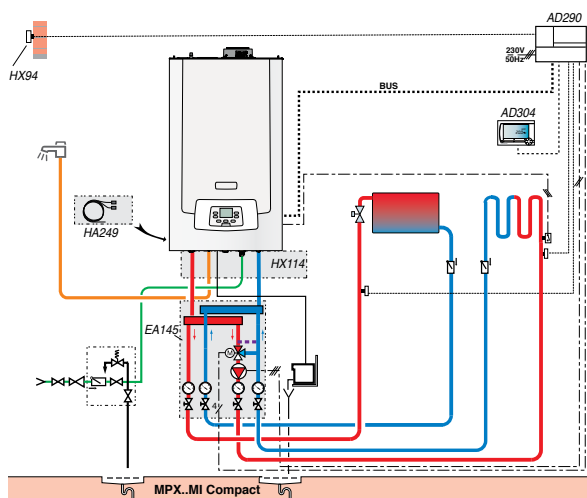
MPX MPX 24/28 MI COMPACT



- 1 direct circuit
- 1 circuit with mixing valve

DESCRIPTION

	PACKAGE	REF
Boiler MPX 24/28 MI COMPACT	HX107	7679067
Hydraulic connection kit	HX114	7679074
Compact hydraulic module for 2 circuits	EA145	100020169
Connection kit for direct underfloor heating	HA249	100003301
2-circuit control module	AD290	S103303
Options		
- Outdoor sensor	HX94	7670186
- Programmable room thermostat (wire)	AD304	7609763
- Horizontal wall terminal Ø 60/100 mm, lg 800 mm (with elbow 90°)	DY871	100008296



MPX_F0071

ADVANCE



Evodens

AMC 15, 25, 35 from 3.4 to 35.9 kW

point

DIEMATIC Evolution regulation



Wall-hung gas condensing boiler, equipped to operate on natural gasses

- Low pollutant emissions
- Molded cast alloy aluminium/silicium exchanger
- Gas premix burner in stainless steel modulating from 22 to 100% of output, with non return valve to operate on a collective flue system
- Boiler equipped with: brass hydraulic module, mounting frame with prefitted water and gas valves allowing an automatic filling, a modulating pump, 3 bar safety valve, 12 litre expansion vessel (no vessel on AMC 35) heating/DHW reversal valve, automatic air vent.

- Control panel DIEMATIC Evolution with outdoor sensor (see regulation options on following pages)
- Packaging: 1 package (without air/flue gas terminal)

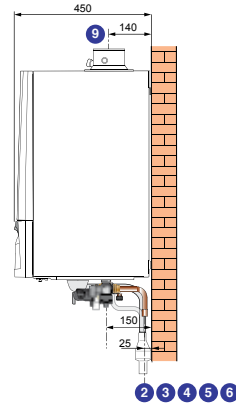
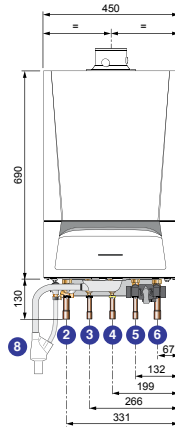
N° CE 0063CR3604

OPTIONS: see following pages/ FLUE SYSTEMS: see chapter 14

MAIN DIMENSIONS (mm and inches)

	AMC...	AMC.../ BS 60	AMC.../ SRB 130
② Heating flow Ø (mm)	22 int.	22 int.	22 int.
③ Primary tank outlet Ø (mm) (1)	16 int.	-	-
④ Gas inlet Ø (mm)	18 int.	18 int.	18 int.
⑤ Primary tank return Ø (mm) (1)	16 int.	-	-
⑥ Heating return Ø (mm)	22 int.	22 int.	22 int.
⑧ Condensates drain (run-off collector delivered) PVC Ø (mm) to besticked	32	32	32
⑨ Evacuation of combustion products and air inlet pipe Ø (mm)	60/100	60/100	60/100
⑩ DHW outlet	-	R 3/4"	R 3/4"
⑪ Domestic cold water inlet	-	R 3/4"	R 3/4"

(1) If connecting a DHW independent calorifier



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C	• Safety thermostat: 110°C	• Protection index: IP X5D	• Classification: B ₃₃ , B ₂₃ , B _{23P} , C _{13x}
Max. operating pressure: 3 bar	• Power supply: 230 V/50 Hz/6A	• NOx classification: 6	• C _{33x} , C _{933x} , C ₅₃ , C _{43x}
			• C _{83x} , C _{(10)3x} , C _{(12)3x}

MODEL

	AMC	15	25	35	
Useful output at 50/30°C Pn (heating mode)	kW	3.4-15.8	5.6-25.5	7.0-35.9	
Efficiency at ...% output and ...°C water temperature	%	- 100% Pn at average temp. 70°C	99.3	99.2	99.1
		- 100% Pn at return temp. 30°C	110.2	110.1	110.6
Seasonal space heating energy efficiency (without contribution of regulation)	%	94	94	95	
Seasonal space heating energy efficiency (with outdoor sensor)	%	96	96	97	
Water flow at ΔT = 20 K	m ³ /h	0.62	1.04	1.45	
Mini/max. useful output at 80/60°C	kW	3.0-14.9	5.0-24.8	7.0 - 34.5	
Manometric height avail. heating circuit	mbar	585	355	231	
Water content	l	1.7	1.7	2.3	
Gas flow at Pn (15°C, 1013 mbar)	m ³ /h	- natural gas H	1.59	2.65	3.71
		- propane	0.61	1.02	1.44
Max. flue gas mass flow rate	kg/h	25.2	42.1	57.3	
Flue gas pressure available	Pa	80	120	140	
Net weight	kg	45	45	41	

MODEL

	AMC	15	25	35
Boiler	Package	HR188	HR189	HR190
	Ref.	7792969	7792970	7792971

GAS

WALL-HUNG GAS CONDENSING BOILER, FOR HEATING AND DOMESTIC HOT WATER PRODUCTION



Evodens

AMC../BS 60 from 3.4 to 35.9 kW

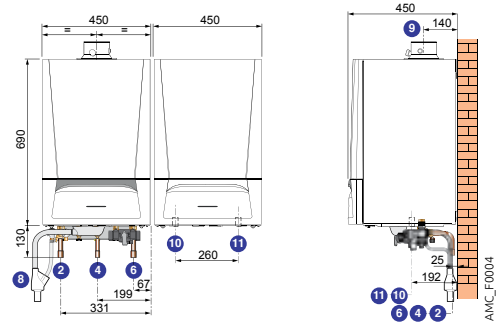


Enamelled 60 litre DHW calorifier placed to the right or the left of the boiler, protection by "Titan Active System"

- Boiler/tank connecting pipe included
- DHW sensor delivered
- Packaging: 3 packages



Protection of the DHW calorifier by "Titan Active System"



NOTA: the boiler/tank connecting kit is provided, but is not represented

MODEL

	AMC		15 + BS60		25 + BS60		35 + BS60	
Boiler	Package	HR188	Ref.	7792969	Package	HR189	Ref.	7792970
Calorifier BS60	Package	EE75	Ref.	7676238	Package	EE75	Ref.	7676238
Connecting pipe boiler/calorifier	Package	EA138	Ref.	100013746	Package	EA138	Ref.	100013746



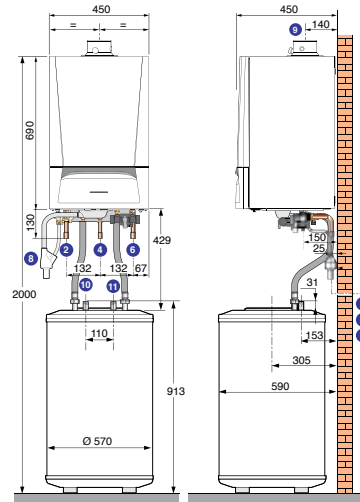
Evodens

AMC../SRB 130 from 3.4 to 35.9 kW



Enamelled 130 litre DHW calorifier placed under the boiler with protection by magnesium anode

- Boiler/tank connecting pipe included
- DHW sensor must be ordered
- Packaging: 3 packages



MODEL

	AMC		15 + SRB130		25 + SRB130		35 + SRB130	
Boiler	Package	HR188	Ref.	7792969	Package	HR189	Ref.	792970
Calorifier SRB130	Package	EE81	Ref.	7681039	Package	EE81	Ref.	7681039
Connecting pipe boiler/calorifier	Package	EA137	Ref.	100013532	Package	EA137	Ref.	100013532
DHW sensor	Package	AD212	Ref.	100000030	Package	AD212	Ref.	100000030

Nota: dimensions and legends, see opposite.

TECHNICAL SPECIFICATIONS

Max operating pressure DHW: 10 bar

MODEL	AMC	15/BS 60	25/BS 60	35/BS 60	15/SRB 130	25/SRB 130	35/SRB 130
Energy efficiency class (DHW)		A	A	A	B	A	A
Nominal output at 50/30°C	kW	3.4-15.8	5.6-25.5	7.0-35.9	3.4-15.8	5.6-25.5	7.0-35.9
Seasonal space heating energy efficiency (without contribution of regulation)	%	94	94	95	94	94	95
Seasonal space heating energy efficiency (with outdoor sensor)	%	96	96	97	96	96	97
DHW calorifier capacity	l	57.3	57.3	57.3	125	125	125
Exchanged power	kW	14.9	22	25	14.9	24	25
Flow over 10 min at ΔT = 30 K	L/10 min	125	145	150	200	200	200
Flow per hour at ΔT = 35 K	L/h	355	540	615	355	590	615
Specific rate at ΔT = 30 K (compliance with EN 13203-1)	L/min	12.5	14.5	15	20.0	20	20
Coefficient of heat losses	W/K	1.03	1.03	1.03	1.28	1.28	1.28
Net weight	kg	86	86	88	101	101	103

DHW performances at room temperature 20°C, cold water temp. 10°C, primary hot water temp. 80°C, storage temp. 60°C

GAS

WALL-HUNG GAS CONDENSING BOILER, FOR HEATING AND DHW PRODUCTION WITH INTEGRATED CALORIFIER

ADVANCE



Evodens

AMC 25/28 BIC, 25/39 BIC from 5.6 to 25.5 kW

point

Automatic filling
Brass hydraulic body
DIEMATIC Evolution regulation
Compact
Specific hot water flow 24 l/min



Wall-hung gas condensing boiler, equipped to operate on natural gasses

- Low pollutant emissions
- Molded cast alloy aluminium/silicium exchanger
- Gas premix burner in stainless steel modulating from 22 to 100% of output, with non return valve to operate on a collective flue system
- Boiler equipped with:
 - Brass hydraulic module body, mounting frame with prefitted water and gas valves allowing an automatic filling, a modulating pump, 3 bar safety valve, 12 litre expansion vessel (no vessel on AMC 35) heating/DHW reversal valve, automatic air vent.

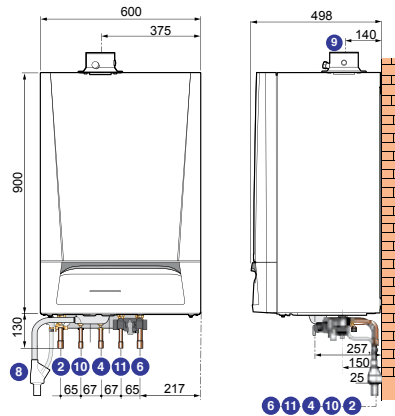
- Control panel DIEMATIC Evolution with outdoor sensor (see regulation options on following pages)
- DHW tank comprising 3 interconnected fully insulated stainless steel stratification tanks, combined with a plate exchanger and a load pump, with a total capacity of 40 litre, integrated in the boiler.
- DHW expansion vessel delivered
- Boiler/tank connecting pipe and DHW sensor delivered
- **Packaging: 1 package**

N° CE 0063CR3604

OPTIONS: see following pages/ **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

- ② Heating flow Ø 22 mm int.
 - ④ Gas inlet Ø 18 mm int.
 - ⑥ Heating return Ø 22 mm int.
 - ⑧ Condensates drain (run-off collecteur deliverred) PVC Ø 32 mm to besticked
 - ⑨ Evacuation of combustion products and air inlet pipe Ø 60/100 mm
 - ⑩ DHW outlet Ø 16 mm int.
 - ⑪ Domestic cold water inlet Ø 16 mm int.
- R: Threading



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C	• Safety thermostat: 110°C	• Protection index: IP X4D	• Classification: B _{33x} , B _{23x} , B _{23P} , C _{13x}
Max. operating pressure: 3 bar	• Power supply: 230 V/50 Hz/6A	• NOx classification: 6	C _{33x} , C _{93x} , C ₅₃ , C _{43x}
			C _{83x} , C _{(10)3x} , C _{(12)3x}

MODEL

	AMC	25/28 BIC	25/39 BIC
Useful output at 50/30°C Pn (heating mode)	kW	5.6-25.5	7.9-24.5
Nominal output at 80/60°C (DHW mode)	kW	5.0-28.6	7.1-39.7
Efficiency at ...% output and ...°C	%	99.2	Consult us
water temperature ...°C	%	110.1	Consult us
Seasonal space heating energy efficiency (without contribution of regulation)	%	94	94
Seasonal space heating energy efficiency (with outdoor sensor)	%	96	96
Manometric height available heating circuit at Pn	mbar	355	355
Water content	L	1.8	2.4
Stand by losses at ΔT = 30 K	W	71	71
Auxiliary electrical power (ex. heating pump) at Pn	W	84	92
Electrical power heating pump	W	40	43
Electrical power at zero load	W	5	5
Useful output at 80/60°C mini/maxi	kW	5.0-24.8	7.1-23.8
Flue gas pressure available	Pa	130	160
DHW calorifier capacity	L	40.5	40.5
Exchanged power	kW	28.6	39.7
Flow over 10 min at ΔT = 30 K	l/10 min	200	240
Specific rate at ΔT = 30 K (compliance with EN 13203-1)	l/min	20*	24*
Flow per hour at ΔT = 35 K	l/h	746	1236
Net weight	kg	74	69

DHW performances at room temperature 20°C, cold water temp. 10°C, primary hot water temp. 80°C, storage temp. 85°C

* Certification in progress

MODEL

	MCA	25/28 BIC	25/28 BIC
Boiler	Package	HR192	HR193
	Ref.	7792973	7792974

GAS

WALL-HUNG GAS CONDENSING BOILER, FOR HEATING AND MICRO STORAGE DHW PRODUCTION

ADVANCE



Evodens

AMC 25/28 MI from 5.6 to 25.5 kW

point
Automatic filling
Brass hydraulic body
DIEMATIC Evolution regulation
Compact
Specific hot water flow 24 l/min



Wall-hung gas condensing boiler, equipped to operate on natural gasses

- Low pollutant emissions
- **Molded cast alloy aluminium/silicium exchanger**
- Gas premix burner in stainless steel modulating from 22 to 100% of output, with non return valve to operate on a collective flue system
- **Boiler equipped with:** brass hydraulic module body, mounting frame with prefitted water and gas valves allowing an automatic filling, a modulating pump, 3 bar safety valve, 12 litre expansion vessel (no vessel on AMC 35) heating/DHW reversal valve, flange

plate heat exchanger to produce DHW, automatic air vent.

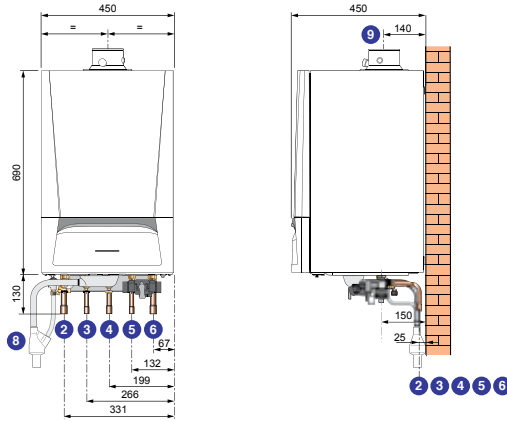
- **Control panel DIEMATIC Evolution** with outdoor sensor (see regulation options on following pages)
- **Packaging:** 1 package

N° CE 0063CR3604

OPTIONS: see following pages/ **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

- ② Heating flow Ø 22 mm int.
- ③ DHW outlet Ø 16 mm int.
- ④ Gas inlet Ø 18 mm int.
- ⑤ Domestic cold water inlet Ø 16 mm int.
- ⑥ Heating return Ø 22 mm int.
- ⑧ Condensates drain (run-off collecteur delivered) PVC Ø 32 mm to besticked
- ⑨ Evacuation of combustion products and air inlet pipe Ø 60/100 mm



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C	• Safety thermostat: 110°C	• Protection index: IP X4D	• Classification: B _{33x} , B _{23x} , B _{23P} , C _{13x}
Max. operating pressure: 3 bar	• Power supply: 230 V/50 Hz/6A	• NOx classification: 6	• C _{33x} , C _{93x} , C _{53x} , C _{43x}
			• C _{83x} , C _{(10)3x} , C _{(12)3x}

MODEL

	AMC	25/28 MI
Useful output at 50/30°C Pn (heating mode)	kW	5.6-25.5
Nominal output at 80/60°C (DHW mode)	kW	5.0-28.6
Efficiency at ...% output and ...°C	%	99.2
water temperature ...°C	%	110.1
Seasonal space heating energy efficiency (without contribution of regulation)	%	94
Seasonal space heating energy efficiency (with outdoor sensor)	%	96
Water flow at ΔT = 20 K	m³/h	1.04
Min./Max. useful output at 80/60°C	kW	5.0-24.8
Manometric height avail. heating circuit*	mbar	355
Water content	l	1.7
Gas flow at Pn (15°C, 1013 mbar)	m³/h	2.96
	m³/h	1.15
Max flue gas mass flow rate*	kg/h	47.1
Flue gas pressure available*	Pa	130
Exchanged power	kW	28.6
Specific rate at ΔT = 30 K (compliance with EN 13203-1)	l/min	14
Min. pressure for a flow of 11 l/min	bar	1.3
Net weight	kg	44

DHW performances at room temperature: 20°C, cold water temp.: 10°C, primary hot water temp.: 85°C
* at 28.6 kW

MODEL

	AMC	25/28 MI
Boiler	Package	HR191
	Ref.	7792972

OPTIONS

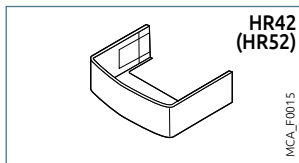
FOR EVODENS AMC

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

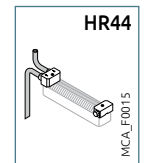
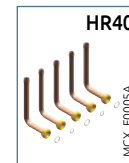
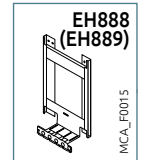
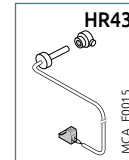
	PACKAGE	REF.
Stand-off frame (all models except AMC... BIC)	EH888	7685120
Stand-off frame for AMC 25/28 BIC	EH889	7685121
Pipe kit for stand-off frame	HR40	S100935
Pipe cover (all models except AMC... BIC)	HR42	S100676
Pipe cover AMC 25/28 BIC	HR52	S101205
Flue gas thermostat (all models except AMC... BIC)	HR43	S100310
Flue gas thermostat AMC 25/28 BIC	HR53	S101232
Cleaning tool plate exchanger (AMC 25/28 MI)	HR44	S100761
Cleaning tool boiler body	HR45	S100931
Neutralisation station DN1	SA1	7613605
Wall bracket for neutralisation station DN1	SA2	7613606
Neutralisation granules 10 kg *	-	94225601
Decoupling cylinder 60/60-1"	GV45	100019346
Hydraulic module with pump with energy efficiency index EEI < 0.23:		
• For 1 direct circuit	EA143	100020167
• For 1 circuit with valve	EA144	100020168
Insulated collector for 2 or 3 modules	EA140	100020164
Console for 1 hydraulic module	EA142	100020166
Set of consoles for collector	EA141	100020165
G in R connection kit (1" and 3/4")	BH84	89557009
Adapter biflow 2 x 80 mm	DY868	100005825
Adapter Ø 80/125 mm	HR38	S100465
Boiler connecting kit of over pressured collection flue system	DY887	100014000
Compact, 2 circuit hydraulic module with 2 modulating pumps with energy efficiency index EEI < 0.23	MT12	7616233
Compact, 2 circuit hydraulic module with 1 modulating pumps with energy efficiency index EEI < 0.23	EA145	100020169

* To order at the spare parts department



DHW PRODUCTION

	PACKAGE	REF.
• 40 litre DHW integrated calorifier		see previous pages
• 60 litre DHW calorifier juxtaposed or 130 litre DHW calorifier placed under the boiler AMC		see previous pages
• Instantaneous model AMC 25/28 MI		see previous pages
• Independent calorifier		see chapter 08
• Solar calorifier		see chapter 10
DHW sensor	AD212	100000030



CONTROL UNITS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Circuit type		DHW	1 or 2 x direct	valve	direct + 1 valve	2 x valve	direct + 2 x valve	3 x valve
Control panel DIEMATIC Evolution (1)(2)	AMC 15, 25, 35	1 x AD212	as standard	1 x AD199	1 x AD199	2 x AD199	1 x AD199 + 1 x AD249	2 x AD199 + 1 x AD249
	AMC./BS., AMC 25/28 MI, AMC 25/28 BIC, AMC 35/39 BIC	as standard	as standard	1 x AD199	1 x AD199	2 x AD199	1 x AD199 + 1 x AD249	2 x AD199 + 1 x AD249

(1) Each of the circuits "heating" can be completed in choice by a remote control ; (2) Cascade up to 8 boilers possible.

CONTROL UNITS

	PACKAGE	REF.
PCB + sensor for mixing valve	AD249	100013304
MOD-BUS cable:		
• 1.5 m	AD124	88017836
• 12 m	AD134	88017851
• 40 m	DB119	81997720
S-BUS cable with plug:		
• 1.5 m	AD308	7663618
• 12 m	AD309	7663561
• 20 m	AD310	7663619
S-BUS plug	AD321	7688305

Room thermostat:

• Non-programmable room thermostat (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818

Connected room thermostat:

• SMART TC°, R-BUS (wire)	AD324	7691375
• SMART TC° RF (wireless)	AD341	7691377
• SMART TC° RF (wireless) for 2 nd circuit	AD342	7765144

Sensor:

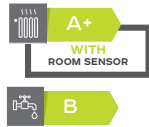
• Sensor for mixing valve	AD199	88017017
• DHW sensor	AD212	100000030
• Sensor for storage tank	AD250	100013305
• Outside sensor (wireless) only in combination with the AD341*	AD346	7776874

* need to order the connected room sensor AD341

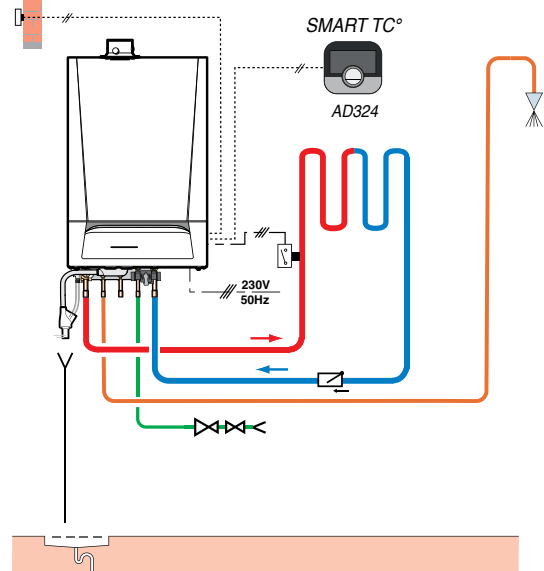
EXAMPLES OF INSTALLATION

FOR EVIDENS AMC

Evidens AMC 25/28 BIC



- 1 underfloor heating circuit

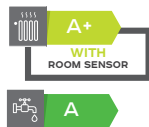


DESCRIPTION

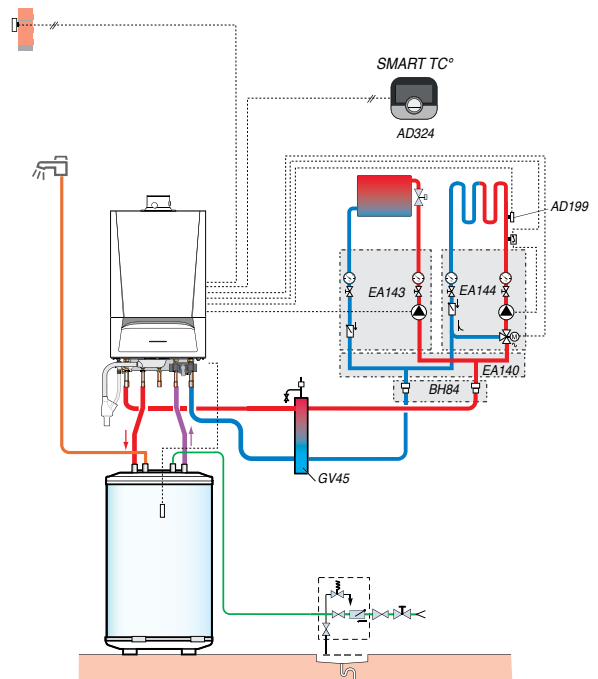
DESCRIPTION	PACKAGE	REF
Boiler AMC 25/28 BIC	HR192	7792970
Option		
- Connected room thermostat SMART TC°, R-BUS (wire)	AD324	7691375

AMC_F0006

Evidens AMC 25/SRB 130



- 1 direct circuit (without mixing valve)
- 1 underfloor heating circuit (with mixing valve)



DESCRIPTION

DESCRIPTION	PACKAGE	REF
Boiler AMC 25	HR189	7792970
Calorifier SRB130	EE81	7681039
Connection pipes calorifier/boiler	EA137	100013532
DHW sensor	AD212	100000030
Sensor for mixing valve	AD199	88017017
Option		
- Connected room thermostat SMART TC° (R-BUS°)	AD324	7691375
- Decoupling cylinder 60/60-1"	GV45	100019346
- Hydraulic module with pump:		
• for 1 direct circuit	EA143	100020167
• for 1 circuit with mixing valve	EA144	100020168
- Insulated collector for 2 or 3 modules	EA140	100020164
- Set of consoles for collector SRB130	EA141	100020165
- G in R connection (1" and 3/4")	BH84	89557009
- Calorifier SRB 130	EE81	7681039
- Connecting pipes boiler/calorifier SRB130	EA137	100013532

AMC_F0007

EASYLIFE



Zena Plus

MSL 24 FF and MSL 31 FF from 9.3 to 31 kW

+ point

Wide range of outputs and high performances



MSL 24, 31 FF, forced flue, for connection to a horizontal or vertical air/flue terminal (C_{12x} or C_{32x}). Can be also connected on a collective flue system (C_{42x}) or in bi-flow (C₅₂).

- Equipped to operate on natural gases and can be converted to propane (conversion kit optional),
- Main exchanger in copper covered with an aluminium silicon paint, gas valve with external modulator and double safety solenoid valve, stainless steel atmospheric burner, electronic ignition and ionisation flame control,

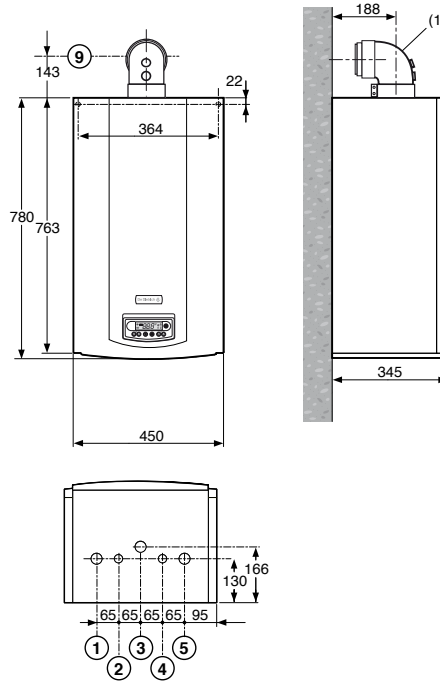
- Electronic control panel with digital display, directly accessible with diagnostic error code and historical anomalies, Mechanical manometer,
- Hydrobloc made of brass, 3-speed pump with automatic vent, the automatic by-pass, the heating/DHW reversal valve, the water pressure switch, the drain cock, the 3 bar heating safety valve, electronic pressure gauge,
- Extraction fan and air pressure switch,
- Integrated heating expansion vessel: 8 litre on MSL 24 FF and 10 litre on MSL 31 FF,
- Wall-hanging bracket provided,
- Packaging: 1 package

OPTIONS: see following pages/ **FLUE SYSTEMS:** see chapter 14
Not available for UE markets

MAIN DIMENSIONS (mm and inches)

- ① Heating flow G 3/4"
- ② Primary tank outlet G 3/4" (if exists)
- ③ Gas inlet G 3/4"
- ④ Filling tap connection G 1/2"
- ⑤ Heating return and primary tank return (if exists) G 3/4"
- ⑨ Air/flue connection Ø 60/100 mm
- (1) Elbow delivered with horizontal air/flue terminal package DY908 (option)

MSL 24, 31 FF



TECHNICAL SPECIFICATIONS

Low temperature

Mini outlet temp.: 30°C
Mini return temp.: 20°C

Max. operating pressure: 95°C
Max. operating thermostat: 3 bar
Safety thermostat: 105°C

NOx classification: 3
Protection index: IP X5D

Classification:
MSL 24, 28, FF: C_{12x}, C_{32x}, C_{42x}, C₅₂, C_{82x}, B₂₂

MODEL

	MSL	24 FF	31 FF	
Nominal useful output (heating mode)	kW	25	31	
Efficiency at ... % output and ... °C water temperature	- 100 % Pn at average temp. 70°C - 30 % Pn at average temp. 40°C	%	92.9	93.1
		%	90.2	90.8
Water flow at Pn ΔT = 20 K	m³/h	1.07	1.33	
Min. useful output (heating and DHW mode)	kW	9.3	10.4	
Manometric height available heating circuit	mbar	250	240	
Water content	l	1.4	1.4	
Gas flow	- natural gas H - propane	m³/h	2.84	3.52
		m³/h	2.09	2.59
Flue gas mass flow rate at Pn	kg/h	61.2	68.4	
Net weight	kg	38	38	

MODEL

	MSL	24 FF	31 FF
Package		HX40	HX45
Ref.		7116252	7116253

EASYLIFE



Zena Plus

MSL 24 MI, MSL 24, 28, 31 MI FF from 9.3 to 31 kW



Wide range of outputs and high performances



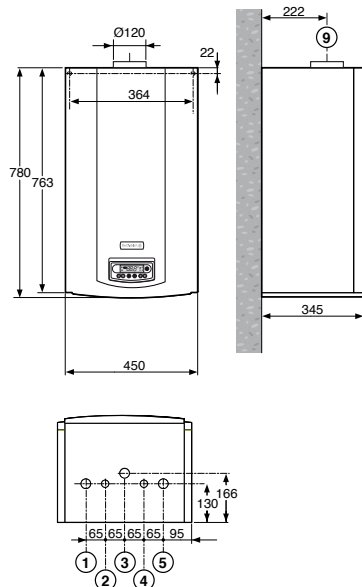
- MSL 24 MI: for chimney connection
- MSL 24, 28, 31 MI FF: forced flue, for connection to a horizontal or vertical air/flue terminal (C_{12x} or C_{32x}). Can be also connected on a collective flue system (C_{42x}) or in bi-flow (C₅₂),
- Equipped to operate on natural gases (or propane for MI FF versions) and can be converted to propane (conversion kit optional),
- Boilers for heating and instant hot water production,
- Main exchanger in copper covered with an aluminium silicon paint, gas valve with external modulator and double safety solenoid valve, stainless steel atmospheric burner, electronic ignition and ionisation flame control,
- Electronic control panel with digital display, mechanical manometer,
- Hydrobloc made of brass, 3-speed pump with automatic vent, the automatic by-pass, the heating/DHW reversal valve, the water pressure switch, the drain cock, the 3 bar heating safety valve, the pressure gauge, the stainless steel plate exchanger and the turbine flow detector for measuring the DHW flow,
- Anti-overflow thermostat on "chimney" version, extraction fan and air pressure switch on FF models,
- Integrated heating expansion vessel: 8 litre on MSL 24 MI (FF) and 10 litre on MSL 28/31 MI FF,
- Wall-hanging bracket provided,
- For more comfort, DHW preheating function available.
- Packaging: 1 package

OPTIONS: see following pages/ **FLUE SYSTEMS:** see chapter 14
Not available for UE markets

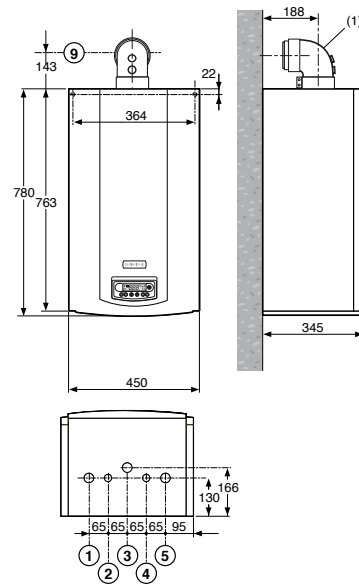
MAIN DIMENSIONS (mm and inches)

- ① Heating flow G 3/4"
 - ② MSL 24 MI: DHW outlet G 1/2"
MSL 24, 28, 31 MI FF: DHW outlet G 1/2"
 - ③ Gas inlet G 3/4"
 - ④ MSL 24 MI: Domestic cold water inlet G 1/2"
MSL 24, 28, 31 MI FF: Domestic cold water inlet G 1/2"
 - ⑤ MSL 24 MI: heating return G 3/4"
MSL 24, 28, 31 MI FF: heating return G 3/4"
 - ⑥ Air/flue connection: MSL 24 MI: Ø 120 mm,
MSL 24, 28, 31 MI FF: Ø 60/100 mm
- (1) Elbow delivered with horizontal air/flue terminal package DY908 (option)

MSL 24 MI



MSL 24, 28, 31 MI FF



TECHNICAL SPECIFICATIONS

Low temperature

Min. outlet temp.: 30°C	• Max. operating pressure: 95°C	• NOx classification: 3	• Classification:
Min. return temp.: 20°C	• Max. operating thermostat: 3 bar	• Protection index: IP X5D	• MSL 24 MI: B _{11B5}
	• Safety thermostat: 105°C		• MSL 24, 28, 31 MI FF: C _{12X} , C _{32X} , C _{42X} , C ₅₂ , C _{82X} , B ₂₂

MODEL

	MSL	24 MI	24 MI FF	28 MI FF	31 MI FF	
Nominal useful output (heating and DHW mode)	kW	25	25	28.1	31	
Efficiency at ... % output and ...°C water temperature	%	- 100 % Pn at average temp. 70°C	91.2	92.9	93.1	93.1
		- 30 % Pn at average temp. 40°C	90.3	90.2	90.8	90.8
Water flow at Pn ΔT = 20 K	m ³ /h	1.03	1.07	1.2	1.33	
Min. useful output (heating and DHW mode)	kW	9.3	9.3	10.4	10.4	
Manometric height available heating circuit	mbar	250	250	290	240	
Water content	l	1.4	1.4	1.4	1.4	
Gas flow at Pn	m ³ /h	- natural gas H	2.78	2.84	3.18	3.52
		- propane	2.04	2.09	2.34	2.59
Draught at the nozzle	mbar	0.05 à 0.1	-	-	-	
Flue gas mass flow rate at Pn	kg/h	68.4	61.2	61.2	68.4	
Exchanged power	kW	24	25	28	31	
Flow per hour at ΔT = 35 K	l/h	588	612	684	762	
Specific flow at ΔT = 30 K (compliance EN 13203)	l/min	10.7	11.5	12.5	13.7	
Net weight	kg	33	38	40	40	

MODEL

	MSL	24 MI*	24 MI FF	28 MI FF	31 MI FF
Executions in natural gas H	Package	HX42	HX41	HX43	HX44
	Ref.	7116254	7116249	7116250	7116251
Executions in Propane (LPG)	Package	-	HX136	HX137	HX138
	Ref.	-	7735773	7735774	7735775

* to connect on a chimney



Zena Plus

MSL... FF + BMR 80 from 9.3 to 31 kW



- Enamelled 80 litre DHW calorifier placed to the right or the left of the boiler, protection by magnesium anode,
- Boiler/tank connection pipes + hydraulic connection accessories
- DHW sensor
- Packaging: 5 packages

OPTIONS: see next page/ **FLUE SYSTEMS:** see chapter 14

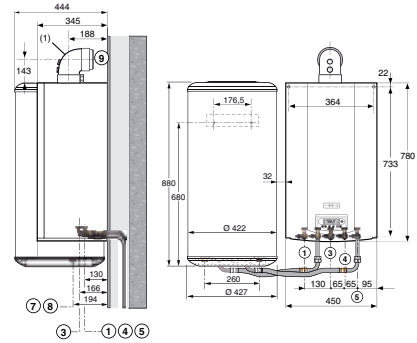
MAIN DIMENSIONS (mm and inches)

- ① Heating flow G 3/4"
- ③ Gas inlet G 3/4"
- ④ Filling tap connection G 1/2" (filling boiler)
- ⑤ Heating return G 3/4"
- ⑦ DHW outlet Ø R 3/4"
- ⑧ Domestic cold water inlet Ø R 3/4"
- ⑨ Air/flue connection Ø 60/100 mm
- (1) Elbow delivered with horizontal air/flue terminal package DY908 (option)

MODEL

	MSL	24 FF + BMR 80	31 FF + BMR 80
	PACKAGE	REF.	REF.
Boiler MSL 24 FF	HX40	7116252	-
Boiler MSL 31 FF	HX45	-	7116253
Calorifier BMR 80	EE53	10005562	10005562
Boiler/tank connection pipes	HX33	100016416	100016416
Hydraulic connection accessories	HX18	100016400	100016400
DHW sensor	HX52	7614732	7614732

MSL 24, 31 FF + BMR 80



MSL_F0003



Zena Plus

MSL... FF + SRB 130 from 9.3 to 31 kW



- Enamelled 130 litre DHW calorifier placed under the boiler, protection by magnesium anode
- Boiler/tank connection pipes + hydraulic connection accessories
- DHW sensor
- Packaging: 5 packages

OPTIONS: see next page/ **FLUE SYSTEMS:** see chapter 14

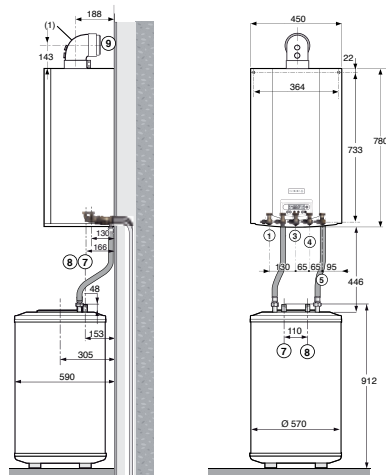
MAIN DIMENSIONS (mm and inches)

- ① Heating flow G 3/4"
- ③ Gas inlet G 3/4"
- ④ Filling tap connection G 1/2" (filling boiler)
- ⑤ Heating return G 3/4"
- ⑦ DHW outlet Ø R 3/4"
- ⑧ Domestic cold water inlet Ø R 3/4"
- ⑨ Air/flue connection Ø 60/100 mm
- (1) Elbow delivered with horizontal air/flue terminal package DY908 (option)

MODEL

	MSL	24 FF + SRB 130	31 FF + SRB 130
	PACKAGE	REF.	REF.
Boiler MSL 24 FF	HX40	7116252	-
Boiler MSL 31 FF	HX45	-	7116253
Calorifier SRB 130	EE81	7681039	7681039
Boiler/tank connection pipes	HX32	100016415	100016415
Hydraulic connection accessories	HX18	100016400	100016400
DHW sensor	HX52	7614732	7614732

MSL 24, 31 FF + SRB 130



MSL_F0004

nota: dimensions and legends: see page 82

TECHNICAL SPECIFICATIONS DOMESTIC HOT WATER (BOILER SEE PREVIOUS PAGES)

Max operating pressure DHW: 8 bar

MODEL

	MSL	24 FF + BMR 80	31 FF + BMR 80	24 FF + SRB 130	31 FF + SRB 130
Usefull output boiler	kW	25	31	25	31
DHW calorifier capacity	l	75	75	125	125
DHW exchanged power	kW	25	31	25	31
Flow over 10 min at ΔT = 30 K	l/10 min	215	240	266	301
Flow per hour at ΔT = 35 K	l/h	614	762	614	762
Specific flow at ΔT = 30 K (compliance EN 13203)	l/min	21.5	24	26.6	30.1
Shipping weight	kg	86	88	106	108

DHW performances at room temp. 20°C, cold water temp.: 10°C, primary hot water temp.: 80°C, storage temp.: 60°C

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

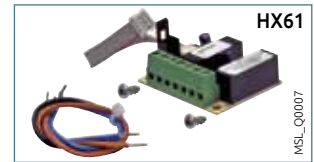
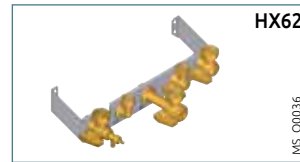
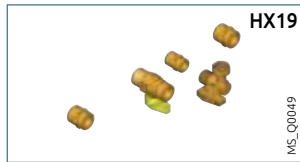
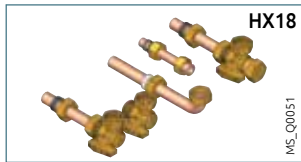
	PACKAGE	REF.
Hydraulic connection accessories for MSL	HX18	100016400
Basic hydraulic connection accessories for MSL	HX19	100016401
Pre-assembly plate	HX62	7616880
Propane conversion kit:		
• for MSL 24...	HX53	7614734
• for MSL 28/31...	HX54	7614735

FLUE SYSTEMS

see page 90

DHW PRODUCTION

	PACKAGE	REF.
• For MSL 24 (FF), 31 FF		
With 80 liter calorifier juxtaposed: BMR 80	EE53	100005562
- Connection pipes BMR 80/MSL 24, 31	HX33	100016416
With 130 liter calorifier placed under the boiler: SRB 130	EE81	7681039
- Connection pipes SRB 130/MSL 24, 31		
DHW sensor	HX52	7614732
• Using independent calorifier		see chapter 08
• Using solar calorifier		see chapter 10



CONTROL UNITS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Boiler type	Circuit type	Circuit type	
		DHW	direct
MSL 24 FF, 31 FF	MSL 24 MI (FF), MSL 28/31 MI FF	HX52	as standard (1)
		as standard	as standard

Control system that operates according to the room or outside temperature:

(1) To be complemented where needed by:

- if you want a control system that operates according to room temp.: • Room thermostat package AD140/137/247/200/248

- if you want a control system that operates according to outside temp.: • outside temp. sensor package HX31

• outside temp. sensor + room thermostat: package HX31 + package AD140/137/247/200/248

CONTROL UNITS

	PACKAGE	REF.
Room thermostat:		
• Non-programmable (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
Sensor:		
• DHW temperature sensor	HX52	7614732
• Outside temperature sensor	HX31	100016414
Relay board	-	7616879

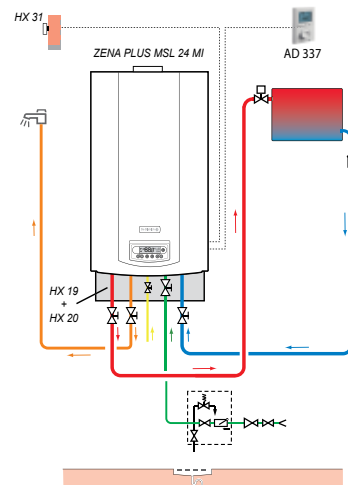
EXAMPLE OF INSTALLATION

MSL 24 MI

- 1 direct circuit
- 1 DHW circuit

DESCRIPTION

	PACKAGE	REF.
MSL 24 MI boiler	HX42	7116254
Options		
- Basic hydraulic connection accessories for MSL	HX19	100016401
- Outside temperature sensor	HX31	100016414
- Programmable (wired with battery)	AD337	7768817



Zena

MS 24 and MS 24 FF from 9.3 to 24 kW



Compact solution and high performances



- MS 24: for chimney connection
- MS 24 FF: forced flue, for connection to a horizontal or vertical air/flue gas terminal (C_{12x} or C_{32x}). Can be also connected on a collective flue system (C_{42x}) or in bi-flow (C₅₂).
- Equipped to operate on natural gases and can be converted to propane (conversion kit optional)
- Main exchanger in copper covered with an aluminium silicone paint, gas valve with external modulator and double safety solenoid valve, stainless steel atmospheric burner, electronic ignition and ionisation flame control
- Electronic control panel with digital display,
- Brass hydroblock incorporating the 2-speed heating pump with automatic vent, the automatic by-pass, the

- heating/DHW reversal valve, the water pressure switch, the drain cock, the disconnecter, the 3-bar heating safety valve, the pressure gauge, detachable filters and the flow limiter on the heating circuit,
- Anti-overflow thermostat on "chimney" versions, extraction fan and air pressure switch on FF models,
- Integrated 6-litre heating expansion vessel,
- Wall-hanging rail
- Water and gas plumbing fixtures, including copper connection pipes and outlet hoses available as options
- **Packaging:** delivered in 1 package (flue and hydraulic accessories delivered separately)

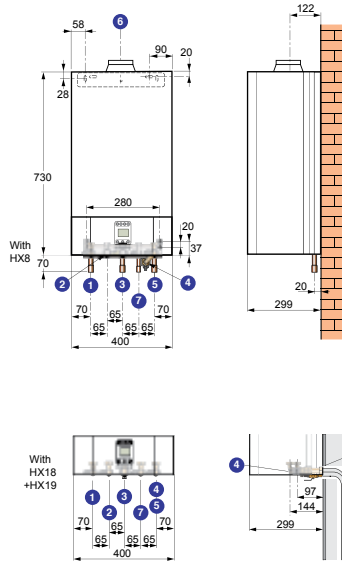
OPTIONS: see following pages
FLUE SYSTEMS: see chapter 14
 Not available for UE markets

MAIN DIMENSIONS (mm and inches)

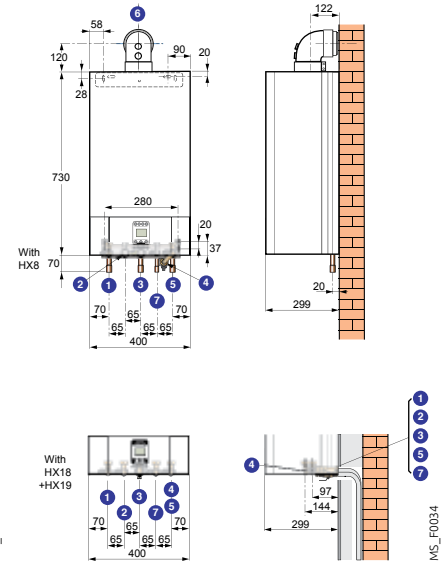
	MS 24/ MS 24 FF/ With HX8	MS 24/ MS 24 FF/ With HX18 + HX19
① Heating flow	Ø 18mm int.	G 3/4"
② Primary tank outlet	Ø 16mm int.	G 3/4"
③ Gas inlet	Ø 18mm int.	G 3/4"
④ Primary tank return	Ø 16mm int.	G 3/4"
⑤ Heating return	Ø 18mm int.	G 3/4"
⑦ Fill water	Ø 16mm int.	G 3/4"
⑥ Flue connection	Ø 125mm	MS 24 FF -
⑥ Evacuation of combustion products and air inlet pipe (here with elbow 90° delivered with horizontal air/flue gas terminal package DY908 - option)	-	Ø 60/ 100mm
⑩ DHW outlet	Ø R 3/4"	Ø R 3/4"
⑪ Domestic cold water inlet	Ø R 3/4"	Ø R 3/4"

G: External cylindrical threading water tightness by flat gasket

MS 24



MS 24 FF



TECHNICAL SPECIFICATIONS

Low temperature

Min. outlet temp.: 30°C
 Min. return temp.: 20°C

• Max. operating temperature: 85°C
 • Max. operating pressure: 3 bar
 • Safety thermostat: 105°C

• NOx classification: 3
 • Protection index: IP X5D

• Classification:
 MS 24 MI: B_{11BS}
 MS 24 MI FF: C_{12x}, C_{32x}, C_{42x}, C₅₂, C_{82x}, B₂₂

MODEL

	ZENA MS	24	24 FF	
Nominal useful output P _w (heating and DHW mode)	kW	24	24	
Efficiency at... % output and ...°C water temp.	- 100% P _n at average temp. 70°C - 30% P _n at average temp. 40°C	%	91.2	92.9
		%	90.2	90.4
Water flow at ΔT = 20 K	m ³ /h	1.03	1.03	
Min. useful output (heating and DHW mode)	kW	9.3	9.3	
Manometric height available heating circuit	mbar	175	175	
Water content	l	3	3	
Gas flow at P _n (15°C, 1013 mbar)	- natural gas H - propane	m ³ /h	2.78	2.73
		kg/h	2.04	2.00
Draught at the nozzle	mbar	0.5	-	
Flue gas mass flow rate	kg/s	0.014	0.020	
Net weight	kg	28	32	

MODEL

	ZENA MS	24	24 FF
Package		HX1	HX2
Ref.		100016378	100016379

These boilers have been designed, tested and certified with the flue systems offered in our catalogue, pursuant to the requirements of standard EN 437 covering central heating boilers using gaseous fuels. We guarantee the safety and correct operation of our boilers as long as they are installed with the certified flue systems under the conditions recommended in our technical documentation.

GAS

WALL-HUNG LOW TEMPERATURE GAS BOILERS FOR HEATING AND HOT WATER PRODUCTION



MS_Q0041

Zena

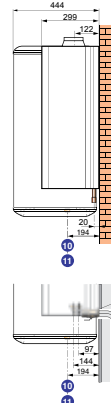
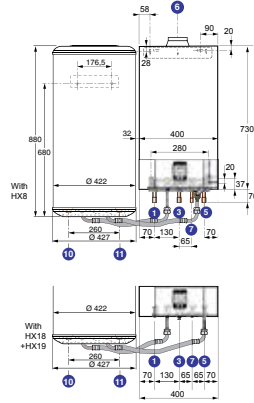
MS 24 (FF) + BMR 80 from 9.3 to 24 kW



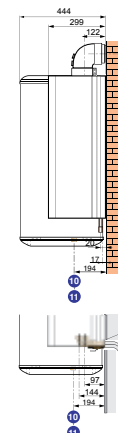
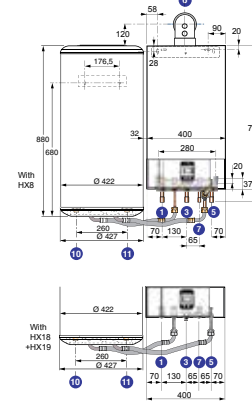
- Enamelled 80 litre DHW calorifier placed to the right or the left of the boiler, protection by magnesium anode
- Boiler/tank connecting pipes

- DHW sensor
- Packaging: 4 packages (flue and hydraulic accessories delivered separately)

MS 24 + BMR 80



MS 24 FF + BMR 80



OPTIONS: see following pages
FLUE SYSTEMS: see chapter 14

MODEL

Boiler	Package	HX1	Ref. 100016378	Package	HX2	Ref. 100016379
Calorifier	Package	EE53	Ref. 100005562	Package	EE53	Ref. 100005562
Boiler/Calorifier connecting pipes	Package	HX33	Ref. 100016416	Package	HX33	Ref. 100016416
DHW sensor	Package	AD250	Ref. 100013305	Package	AD250	Ref. 100013305



MS_Q0043

Zena

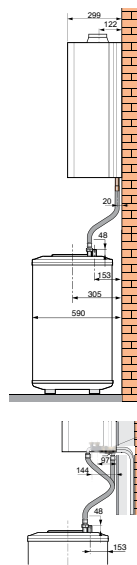
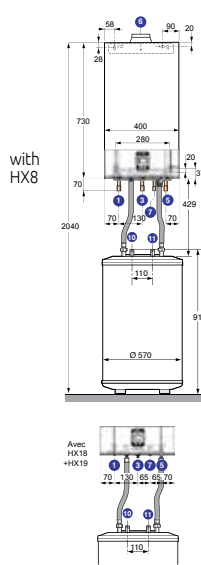
MS 24 (FF) + SRB 130 from 9.3 to 31 kW



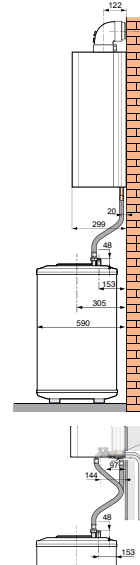
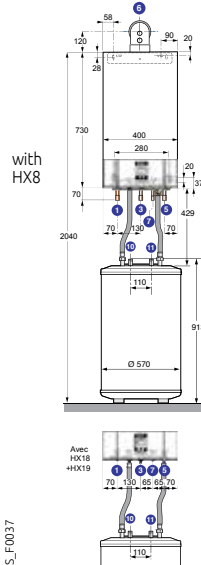
- Enamelled 130 litre DHW calorifier (included sensor) placed under the boiler, protection by magnesium anode
- Boiler/tank connecting pipes

- Packaging: 3 packages (flue and hydraulic accessories delivered separately)

MS 24 + SRB 130



MS 24 FF + SRB 130



OPTIONS: see following pages
FLUE SYSTEMS: see chapter 14

MODEL

Boiler	Package	HX1	Ref. 100016378	Package	HX2	Ref. 100016379
Calorifier	Package	EE81	Ref. 7681039	Package	EE81	Ref. 7681039
Boiler/Calorifier connecting pipes	Package	HX32	Ref. 100016415	Package	HX32	Ref. 100016415

These boilers have been designed, tested and certified with the flue systems offered in our catalogue, pursuant to the requirements of standard EN 483 covering central heating boilers using gaseous fuels. We guarantee the safety and correct operation of our boilers as long as they are installed with the certified flue systems under the conditions recommended in our technical documentation.

TECHNICAL SPECIFICATIONS DOMESTIC HOT WATER (BOILER SEE OPPOSITE)

Max operating pressure DHW: 10 bar

MODEL

	MS 24 (FF) + BMR 80	24 FF + SRB 130
Usefull output boiler	kW	24
DHW calorifier capacity	l	75
DHW exchanged power	l	24
Flow over 10 min at ΔT = 30 K	kW	210
Flow per hour at ΔT = 35 K	l/10 min	590
Specific rate at ΔT = 30 K (compliance with EN 13203-1)	l/h	21.0
Coefficient of heat losses	W/K	1.26
Net weight	kg	81

DHW performances at room temperature 20°C. cold water temp. 10°C. primary hot water temp. 80°C. storage temp. 60°C

EASYLIFE



Zena

MS 24 MI, MS 24 MI FF from 9.3 to 24 kW



point

Compact solution and high performances

- MS 24 MI: for chimney connection
- MS 24 MI FF: forced flue, for connection to a horizontal or vertical air/flue gas terminal (C_{12x} or C_{32x}). Can be also connected on a collective flue system (C_{42x}) or in bi-flow (C₅₂).
- Equipped to operate on natural gases (or propane for MI FF versions) and can be converted to propane (conversion kit optional)
- Boilers for heating and *** DHW performance by EN 13203
- Main exchanger in copper covered with an aluminium silicone paint, gas valve with external modulator and double safety solenoid valve, stainless steel atmospheric burner, electronic ignition and ionisation flame control
- Electronic control panel with digital display,
- Hydroblock in composite material incorporating the 2-speed heating pump with automatic vent, the automatic by-pass, the heating/DHW reversal valve fitted to the return, the water pressure switch, the drain cock, the disconnecter, the 3-bar heating safety valve, the pressure gauge, the stainless steel plate exchanger and the turbine flow detector for measuring the DHW flow, detachable filters and flow limiter on the heating and DHW circuits,
- Extraction fan and air pressure switch on FF models,
- Integrated 6-litre heating expansion vessel,
- Wall-hanging rail
- Water and gas plumbing fixtures, including copper connection pipes and outlet hoses available as options
- Packaging: delivered in 1 package

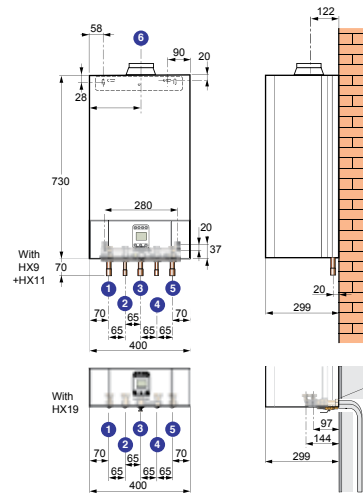
OPTIONS: see following pages
FLUE SYSTEMS: see chapter 14
 Not available for UE markets

MAIN DIMENSIONS (mm and inches)

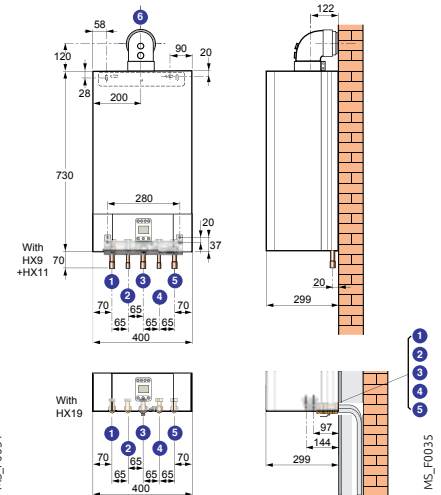
	MS 24 MI/ MS 24 MI FF/ with HX9 + HX11	MS 24 MI/ MS 24 MI FF with HX19 + HX20
① Heating flow	Ø 18mm int.	G 3/4"
② DHW outlet	Ø 16mm int.	G 3/4"
③ Gas inlet	Ø 18mm int.	G 3/4"
④ Domestic cold water inlet	Ø 16mm int.	G 3/4"
⑤ Heating return	Ø 18mm int.	G 3/4"
⑥ Flue connection	Ø 125mm	-
⑦ Evacuation of combustion products and air inlet pipe (here with elbow 90° delivered with horizontal air/flue gas terminal package DY908 - option)	-	Ø 60/100mm

G: External cylindrical threading water tightness by flat gasket

MS 24 MI



MS 24 MI FF



TECHNICAL SPECIFICATIONS

Low temperature

Min. outlet temp.: 30°C	• Max. operating pressure: 3 bar	• Protection index: IP X5D	• Classification:
Min. return temp.: 20°C	• Safety thermostat: 105°C	•	• MS 24 MI: B ₁₁₈₅
Max. operating temperature: 85°C	• NOx classification: 3	•	• MS 24 MI FF: C _{12x} , C _{42x} , C ₅₂ , C _{82x} , B ₂₂

MODEL

	ZENA MS	24 MI	24 MI FF
Nominal useful output P _w (heating and DHW mode)	kW	24	24
Efficiency at... % output and ... °C water temp.	{ - 100% P _n at average temp. 70°C - 30% P _n at average temp. 40°C	91.2	92.9
		90.2	90.4
Water flow at ΔT = 20 K	m ³ /h	1.03	1.03
Min. useful output (heating and DHW mode)	kW	9.3	9.3
Manometric height available heating circuit	mbar	175	175
Water content	l	3.5	3.5
Gas flow at P _n (15°C, 1013 mbar)	{ - natural gas H - propane	2.78	2.73
		2.04	2.00
Draught at the nozzle	mbar	0.5	-
Flue gas mass flow rate	kg/s	0.014	0.020
Exchanged power	kW	24	24
Flow per hour at ΔT = 35 K	l/h	590	590
Specific flow at ΔT = 30 K (compliance EN 13203)	l/min	12.0	12.0
Net weight	kg	29	33

DHW performances at room temperature 20°C. cold water temp. 10°C. primary hot water temp. 85°C.

MODEL

	ZENA MS	24 MI	24 MI FF
Executions in natural gas H	Package	HX3	HX5
	Ref.	100016380	100016382
Executions in Propane (LPG)	Package	-	HX135
	Ref.	-	7732909

These boilers have been designed, tested and certified with the flue systems offered in our catalogue, pursuant to the requirements of standard EN 483 covering central heating boilers using gaseous fuels.
 We guarantee the safety and correct operation of our boilers as long as they are installed with the certified flue systems under the conditions recommended in our technical documentation.

HYDRAULIC ACCESSORIES

FOR ZENA MS

Below the list of hydraulic connection accessories to be ordered in the following cases:

NEW INSTALLATION

STANDARD

PACKAGE TO ORDER:

- For MS 24 (FF): Hydraulic connection plate: Package HX8, **Ref. 100016390**
or
Basic HX19 kit only, **Ref. 100016401** (1)
- For MS 24 MI (FF): Hydraulic connection plate:
Package HX9, **Ref. 100016391**
or
Basic HX19 kit only, **Ref. 100016401** (1)

The HX8 plate (with pre-fitted water and gas plumbing fixtures and paper hanging template) and the HX19 kit (with gas and cold water inlet valves only) are delivered with the boiler in separate packages to be pre-installed and thus enable the installer to make all hydraulic connections, prime the installation with water and check for tightness in advance and only put the boiler in place at the last moment.

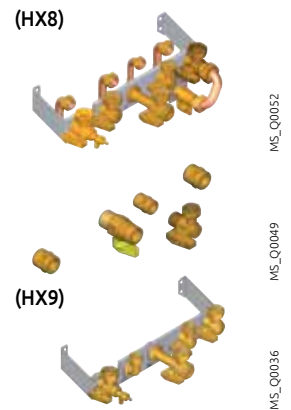
ATTENTION: the HX8 plate incorporates the connecting pipes as standard.

- Hydraulic connection pipe kit: Package HX11 **Ref 100016393** (for MC 24 MI (FF) with HX9 plate only)
This kit includes the copper water and gas connection pipes.
The elbow pipes at the bottom are simply screwed onto the plumbing fixtures on the HX9 hydraulic connection plate.

OPTIONS:

- Pipe cover: Package HX25 **Ref 100016407** (for MS 24 (FF) and MS 24 MI (FF))
provides a perfectly neat finish under the boiler

(1) In this case, the connection between the boiler and this kit should be done by the installer



OPTIONS AND EXAMPLE OF INSTALLATION

FOR ZENA MS

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

	PACKAGE	REF.
Propane conversion kit for MS 24 (FF) and MS 24 MI (FF)	HX28	100016410

FLUE SYSTEMS

see page 90

DHW PRODUCTION

	PACKAGE	REF.
• With BMR 80 calorifier juxtaposed or SRB 130 calorifier placed under the boiler		see previous pages
• Instant DHW production		see previous pages
• Using solar calorifier		see chapter 10
• Using independent calorifier BPB-BLC		see chapter 08
DHW temperatur sensor	AD250	100013305

CONTROL UNITS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Boiler type	Circuit type	Circuit type	
		DHW	direct
MS 24 (FF) MS 24 (FF) + BMR 80 or SRB 130 MS 24 BIC (FF)	MS 24 MI (FF)	AD250	as standard (1)
		as standard	as standard (1)

CONTROL UNITS

	PACKAGE	REF.
Room thermostat:		
• Non-programmable (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
Sensor:		
• DHW temperatur sensor	AD250	100013305
• Outside temperature sensor	HX31	100016414

Control system that operates according to the room or outside temperature:

(1) To be complemented where needed by:

- if you want a control system that operates according to room temperature: • Room thermostat package AD337, AD338 or AD140

- if you want a control system that operates according to outside temperature: • outside temp. sensor package HX31

• outside temp. sensor + room thermostat: package HX31 + package AD337, AD338 or AD140



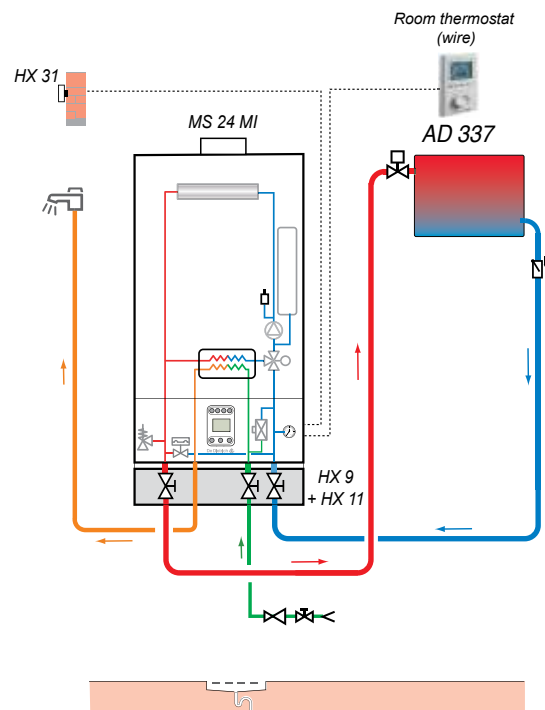
EXAMPLE OF INSTALLATION

Zena MS 24 MI

- 1 direct circuit (without mixing valve)

DESCRIPTION

	PACKAGE	REF.
MS 24 MI	HX3	100016380
Hydraulic connection plate	HX9	100016391
Pipe kit	HX11	100016393
Options		
- Outside temperature sensor	HX31	100016414
- Programmable room thermostat (wired with battery)	AD337	7768817



FLUE SYSTEMS

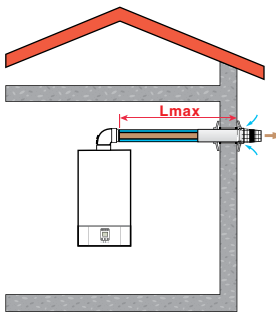
FOR ZENA MS...FF AND ZENA PLUS MSL...FF

CONFIGURATIONS

The wall-hung gas boiler MSL... FF must be connected by one of the following configurations proposed:

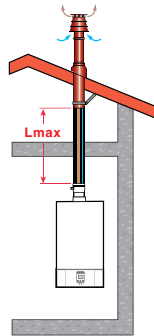
CLASSIFICATION C_{12x}

Lmax (m)	Ø 60/ 100 mm	Ø 80/ 125 mm
MSL 24 (MI) FF	5	9
MSL 28 MI FF	4	8
MSL 31 (MI) FF	3	7
MS 24 ... FF	4	10



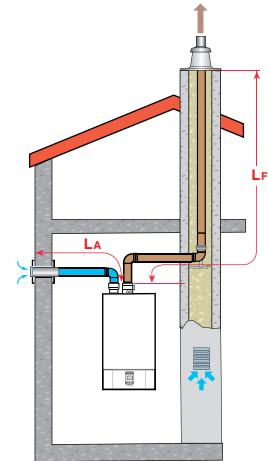
CLASSIFICATION C_{32x}

Lmax (m)	Ø 80/ 125 mm
MSL... FF	8
MS 24 ... FF	9



CLASSIFICATION C₅₂

Lmax (m)	Ø 80 mm
MSL 24 (MI) FF	40
MSL 28 MI FF	25
MSL 31 (MI) FF	25
MS 24 FF	30



$L_{max} = L_a + L_f$
 $L_{a \text{ max}} = 10 \text{ m}$

MS_FF0014A

FLUE SYSTEMS ACCESSORIES

HORIZONTAL FORCED FLUE* Ø 60/100 MM

	PACKAGE	REF
• FLUE SYSTEM Aluminium/Aluminium:		
Horizontal forced flue, lg. 800 mm	DY908	100016485
Extension kit Ø 60/100 mm:		
• 250 mm	DY746	84887746
• 500 mm	DY652	84887652
• 1000 mm	DY653	84887653
• 1950 mm	DY654	84887654
Elbow 87° (1 piece)	DY655	84887655
Elbow 45° (2 pieces)	DY656	84887656
Condensate collector Ø 60/100 mm	DY910	100016487
Roof outlet for slope of 40° to 60°	CX49	84837729
Roof outlet for slope of 30° to 45°	DY11	84887411
Stainless steel protection basket	DY166	84887566
Alu. adjustable pipe Ø 60/100 mm	DY659	84887659
Inspection T-part alu. Ø 60/100 mm	DY660	84887660
• FLUE SYSTEM Aluminium:		
Horizontal terminal+elbow Ø 60/100 mm (only for Zena MS 24 executions)	DY448	7678589
Horizontal terminal Ø 60/100 mm	HX55	7615435
Start elbow 90° Ø 60/100 mm	HX58	7615439
• Concentric extension Ø 60/100, Length 1 000 mm	HX56	7615437
• Concentric extension Ø 60/100, Length 500 mm	HX57	7615438
• Concentric elbow 90° Ø 60/100	HX59	7615441
• Concentric elbow 45° Ø 60/100	HX60	7615442

* Flue system Aluminium/Aluminium and Flue system Aluminium/coated sheet metal should not be mixed

VERTICAL FORCED FLUE Ø 80/125 MM

	PACKAGE	REF
Vertical forced flue, black	DY735	84887735
Vertical forced flue, red	DY736	84887736
Extension kit Ø 80/125 mm:		
• 250 mm	CX64	84837735
• 500 mm	CX65	84837736
• 1000 mm	CX66	84837737
• 2000 mm	CX93	84837793
Elbow 87° (1 piece)	CX76	84837743
Elbow 45° (2 pieces)	CX68	84837739
Condensate collector Ø 80/125 mm	DY909	100016486
Black flue tile for slope of:		
• 5 to 25°	CX121	84837121
• 25 to 45°	CX52	84837732
• 35 to 55°	CX63	84837734
Red flue tile for slope of:		
• 5 to 25°	CX120	84837120
• 25 to 45°	CX83	84837783
• 35 to 55°	CX84	84837784
Compensation sleeve from 50 to 250 mm	CX67	84837738
Ø 125 mm fastening collar long lug	CX79	84837779
Ø 125 mm fastening collar short lug	CX118	84837118
Interior finishing plate	CX72	84837741
Waterlight dams for external mounting	DY51	84887451

HORIZONTAL FORCED FLUE Ø 80/125 MM

	PACKAGE	REF
Horizontal forced flue, lg. 730 mm	CX119	84837119
Stainless steel protection basket Ø 80/125 mm	DY865	100005002

VARIOUS

	PACKAGE	REF
Bi-flow adapter	HX30	100016413
Adapter to collective conduit (C ₄₂)	DY911	100016488

EVODENS PRO

INNOVENS PRO



AMC 45 TO 115

AMC 45 TO 115
CASCADE SYSTEMS

MCA 160

MCA 160
CASCADE SYSTEMS



Control panel

Diematic Evolution

Master : Diematic Evolution
Slave : Inicontrol 2

Diematic Evolution

Diematic Evolution

Nominal output at 80/60°C

kw

8 to 103,9 kW

up to 415,6 kW

31,5 to 152,1 kW

up to 608,4 kW

Modulating gas burner

x

x

x

x

Energy efficiency class (heating)

Up to
 A

-

-

-

Operating possible with natural gas and propane

x

x

x

x

For chimney or forced flue connection

x

x

x

x

DHW production with independent calorifier

x
(see chap. 08)

x
(see chap. 08)

x
(see chap. 08)

x
(see chap. 08)

Page

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Flue systems

See chapter flue systems

See chapter flue systems

See chapter flue systems

See chapter flue systems

Options and examples of installation

95

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101

101

GAS

WALL-HUNG GAS CONDENSING BOILER FOR HEATING

PROJECT

Evodens PRO

AMC 45, AMC 65, AMC 90, AMC 115 from 9.1 to 109.7 kW

point

Wall-hung gas condensing solution, high performance for small collective and tertiary application



up to
A



Wall-hung gas condensing boiler

- Equipped to operate on natural gases and can be converted to propane
- Gas supply pressure: 20 mbar
- Forced flue or chimney connection
- Annual operating efficiency up to 110%
- Low pollutant emissions: NOx < 37 mg/kWh for AMC 45, 32 mg/kWh for AMC 65, 45 mg/kWh for AMC 90 and 46 mg/kWh for AMC 115
- Monoblock heating body in aluminium/silicium
- Gas premix burner in stainless steel with a surface in woven metallic fibres, modulating from 18 to 100% of output

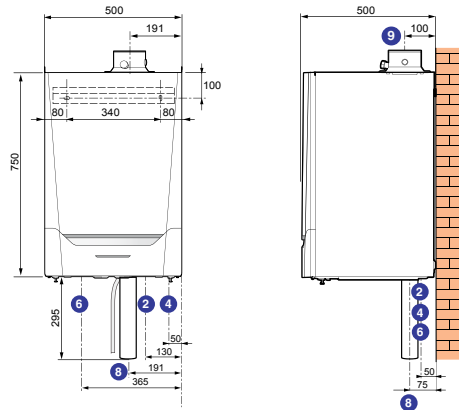
- Fan with air intake silencer
- Delivered with integrated automatic air vent, run-off siphon
- Choice of one of the following two control panels: DIEMATIC Evolution or iniControl 2
- Packaging: 1 package

N° CE 0063CS3928

OPTIONS: see following pages/ CASCADE SYSTEMS: see following pages
FLUE SYSTEMS: see chapter 14

MAIN DIMENSIONS (mm and inches)

- ② Heating flow R 1" 1/4
 - ④ Gas inlet R 3/4"
 - ⑥ Heating return R 1" 1/4
 - ⑧ Condensates drain (siphon and flexible drain Ø 25 mm ext provided)
 - ⑨ Air/flue gas connection:
 - Ø 80/125 mm for AMC 45
 - Ø 100/150 mm for AMC 65, 90 and AMC 115
- R: Threading



TECHNICAL SPECIFICATIONS

Condensing

Mini. operating temperature: 30°C (average flow/return) : Max. operating temperature: 90°C : Protection index: IP X4D : Classification: B_{23P}, B₂₃, B₃₃, C_{13(x)}, C_{33(x)}, C_{93(x)}, C₅₃
 : Max. operating pressure: 4 bar : Power supply: 230 V/50 Hz : NOx classification: 3

Boiler TYPE

	AMC	45	65	90	115
Energy efficiency class (heating)		A	A	-	-
Nominal output at Pn (50/30°C)	kW	42.4	65	89.5	109.7
Efficiency at ...%	%	99.1	99.2	97.9	97.1
output and ...°C	%	102.9	104.6	104.1	102.5
water temp.	%	110.6	110.4	108.1	108.0
Seasonal space heating energy efficiency (without contribution of regulation)	%	94	94	-	-
Seasonal space heating energy efficiency (delivered outdoor sensor with AMC DIEMATIC Evolution)	%	96	96	-	-
Useful efficiency at 100 % of rated heat output	%	-	-	88.2	87.5
Useful efficiency at 30 % of rated heat output	%	-	-	97.4	97.3
Water flow at ΔT = 20 K	m ³ /h	1.72	2.62	3.62	4.60
Auxiliary electrical power at Pn (without circul. pump)	W	79	89	114	182
Stand-by losses at ΔT = 30 K	W	101	110	123	123
Min./max. useful output at 50/30°C	kW	9.1-42.4	13.5-65.0	15.8-89.5	21.2-109.7
Min./max. useful output at 80/60°C	kW	8-40.8	12-61.5	14.1-84.2	189-103.9
Min./max. flue gas mass flow rate	kg/h	14/69	21/104	28/138	36/178
Flue gas pressure available	Pa	150	100	160	220
Water content	l	4.3	6.4	9.4	9.4
Minimum flow rate	m ³ /h	0.4	0.4	0.4	0.4
Water resistance at ΔT = 20 K	mbar	90	130	140	250
Gas flow	m ³ /h	4.4	6.6	9.1	11.3
(15°C-1013 mbar)	m ³ /h	1.7	2.5	3.5	4.4
Net weight	kg	53	60	67	68

MODEL

	AMC	45	65	90	115
AMC... DIEMATIC Evolution	Package	HR161	HR162	HR163	HR164
	Ref.	7699475	7699476	7699477	7699478
AMC... iniControl 2	Package	HR157	HR158	HR159	HR160
	Ref.	7684462	7684586	7684587	7684588

PROJECT



AMC_Q0014

N° CE 0063CS3928

OPTIONS: see following pages

Evodens PRO

AMC 45, 65, 90, 115 cascade systems from 80 to 428 kW



The modularity in answer to high output



Hydrogen



- AMC 45 to 115 cascade systems are available in 3 versions:
 - LW: for wall-hung alignment of the boilers
 - LV: for floor-standing alignment of the boilers
 - RG: for back to back assembly of the boilers
- These systems include:
 - the decoupling cylinder
 - the boiler connection collector including the heating flow and return connection pipes Ø 65 mm, the gas connection pipes Ø 65 mm and the flanges
 - the primary injection pumps
 - the boiler connection kits including the outlet valve, the multi-function return valve (with filling and draining valve, gate valve, non-return valve,

- safety valve and connection for the expansion vessel), and the gas valve
- the wall assembly rail for LW versions or, for LV and RG versions, the corner support structures with the boiler assembly frame
- the outlet sensor + sensor tube and the inter-boiler BUS connection cable

NOTA: the boilers should be ordered separately

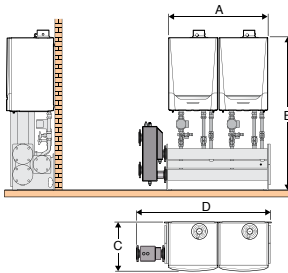
OPTIONS:

- Insulating shells
- connecting flanges...

"CASCADE" COMBINATIONS DEPENDING ON THE TOTAL REQUIRED OUTPUT (2)

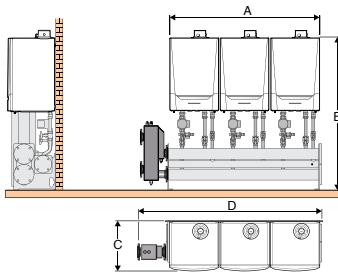
- WALL-HUNG ALIGNMENT: "LW"

- 2 boilers



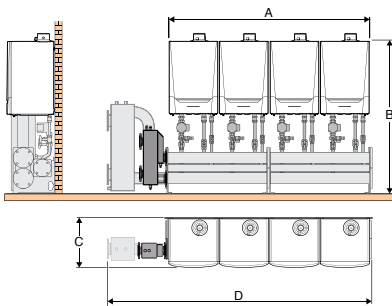
OUTPUT (80/60°C) KW	Boiler TYPE				WATER FLOW $\Delta T = 20\text{ K}$ m³/h	DESIGNATION AND REF. (*)
	AMC 45	AMC 65	AMC 90	AMC 115		
080	2	0	0	0	3.43	LW.0080kW.20000
122	0	2	0	0	5.23	LW.0122kW.02000
168	0	0	2	0	7.20	LW.0168kW.00200
214	0	0	0	2	9.17	LW.0214kW.00020

- 3 boilers



OUTPUT (80/60°C) KW	Boiler TYPE				WATER FLOW $\Delta T = 20\text{ K}$ m³/h	DESIGNATION AND REF. (*)
	AMC 45	AMC 65	AMC 90	AMC 115		
120	3	0	0	0	5.14	LW.0120kW.30000
183	0	3	0	0	7.84	LW.0183kW.03000
252	0	0	3	0	10.80	LW.0252kW.00300
321	0	0	0	3	13.76	LW.0321kW.00030

- 4 boilers



AMC_F6000

OUTPUT (80/60°C) KW	Boiler TYPE				WATER FLOW $\Delta T = 20\text{ K}$ m³/h	DESIGNATION AND REF. (*)
	AMC 45	AMC 65	AMC 90	AMC 115		
160	4	0	0	0	6.86	LW.0160kW.40000
244	0	4	0	0	10.46	LW.0244kW.04000
336	0	0	4	0	14.40	LW.0336kW.00400
428 (1)	0	0	0	4	18.34	LW.0428kW.00040

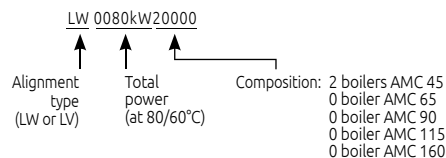
(*) except insulating shells
(1) with decoupling cylinder > 350 kW

(2) Important: boiler cascade of up to 1070 kW: consult us

number of boiler	dimensions (mm)					
	A	B	C	D	Water Ø DN	Gas Ø DN
2 x AMC 45/65/90/115	1030	1576	550	1337	65	50
3 x AMC 45/65/90/115	1560	1576	550	1867	65	50
4 x AMC 45/65/90	2090	1576	550	2397	65	50
4 x AMC 115	2090	1576	550	2739	65	50

Legende:

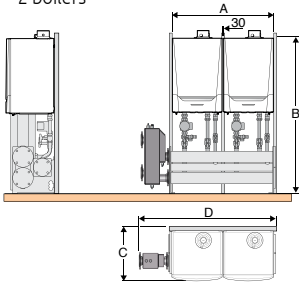
Designation



"CASCADE" COMBINATIONS DEPENDING ON THE TOTAL REQUIRED OUTPUT (2)

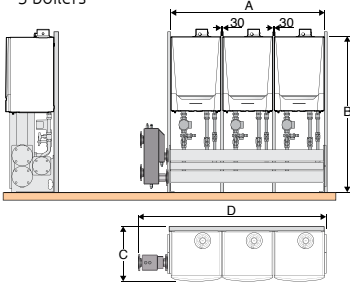
- FLOOR-STANDING ALIGNMENT: "LV"

- 2 boilers



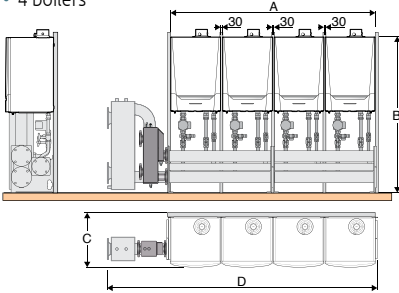
OUTPUT (80/60°C) KW	Boiler TYPE				WATER FLOW $\Delta T = 20\text{ K}$ m^3/h	DESIGNATION AND REF. (*)
	AMC 45	AMC 65	AMC 90	AMC 115		
80	2	0	0	0	3.43	LV.0080kW.20000
122	0	2	0	0	5.23	LV.0122kW.02000
168	0	0	2	0	7.20	LV.0168kW.00200
214	0	0	0	2	9.17	LV.0214kW.00020

- 3 boilers



OUTPUT (80/60°C) KW	Boiler TYPE				WATER FLOW $\Delta T = 20\text{ K}$ m^3/h	DESIGNATION AND REF. (*)
	AMC 45	AMC 65	AMC 90	AMC 115		
120	3	0	0	0	5.14	LV.0120kW.30000
183	0	3	0	0	7.84	LV.0183kW.03000
252	0	0	3	0	10.80	LV.0252kW.00300
321	0	0	0	3	13.76	LV.0321kW.00030

- 4 boilers



OUTPUT (80/60°C) KW	Boiler TYPE				WATER FLOW $\Delta T = 20\text{ K}$ m^3/h	DESIGNATION AND REF. (*)
	AMC 45	AMC 65	AMC 90	AMC 115		
160	4	0	0	0	6.86	LV.0160kW.40000
244	0	4	0	0	10.46	LV.0244kW.04000
336	0	0	4	0	14.40	LV.0336kW.00400
428 (1)	0	0	0	4	18.34	LV.0428kW.00040

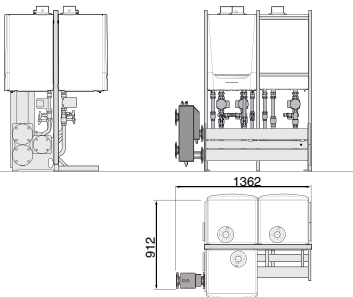
AMC_F6001

(*) except insulating shells
(1) with decoupling cylinder > 350 kW
(2) Important: boiler cascade of up to 1070 kW: consult us

Number of boiler	dimensions (mm)					
	A	B	C	D	Water \varnothing DN	Gas \varnothing DN
2 x AMC 45/65/90/115	1110	1576	500	1362	65	50
3 x AMC 45/65/90/115	1640	1576	500	1892	65	50
4 x AMC 45/65/90	2170	1576	500	1422	65	50
4 x AMC 115	2170	1576	500	2739	65	50

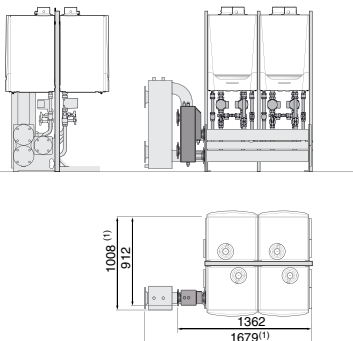
- BACK TO BACK ALIGNMENT: "RG"

- 3 boilers



OUTPUT (80/60°C) KW	Boiler TYPE				WATER FLOW $\Delta T = 20\text{ K}$ m^3/h	DESIGNATION AND REF. (*)
	AMC 45	AMC 65	AMC 90	AMC 115		
120	3	0	0	0	5.14	RG.0120kW.30000
183	0	3	0	0	7.84	RG.0183kW.03000
252	0	0	3	0	10.80	RG.0252kW.00300
321	0	0	0	3	13.76	RG.0321kW.00030

- 4 boilers



OUTPUT (80/60°C) KW	Boiler TYPE				WATER FLOW $\Delta T = 20\text{ K}$ m^3/h	DESIGNATION AND REF. (*)
	AMC 45	AMC 65	AMC 90	AMC 115		
160	4	0	0	0	6.86	RG.0160kW.40000
244	0	4	0	0	10.46	RG.0244kW.04000
336	0	0	4	0	14.40	RG.0336kW.00400
428 (1)	0	0	0	4	18.34	RG.0428kW.00040

AMC_F0027

(*) except insulating shells
(1) with decoupling cylinder > 350 kW
(2) Important: boiler cascade of up to 1070 kW: consult us

OPTIONS

FOR EVODENS PRO AMC 45 TO 115

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

	PACKAGE	REF.
Hydraulic connection kit	HC139	100002310
Pipe cover	HC242	5101539
Primary modulating pump PWM	-	7608398
Switch temperature flue gas	HR43	5100310
Right gas tap 3/4" AMC 45 to 115	HC158	100004641
Decoupling cylinder 60/60 - 1"	GV45	100019346
Decoupling cylinder 80/60 - 1" 1/4	GV46	100019347
Decoupling cylinder 120/80- 2"	GV47	100019348
Condensates station DN1 (until 75 kW)	SA1	7613605
Condensates station DN 2.0 (until 450 kW)	SA3	7613609
Wall bracket for neutralisation station DN1	SA2	7613606
Neutralisation granules 10 kg	-	94225601
Condensates neutralisation system with lift pump:		
• boiler up to 120 kW	DU13	83877009
• from 120 to 350 kW	SA4	7613610
• from 350 to 1300 kW	DU15	83877011
Neutralisation granules 10 kg for DU13, DU15 and SA4 *	-	94225601
Neutralisation granules 25 kg	SA7	7613613
Cleaning tool boiler body AMC 45/65	HC246	552484
Cleaning tool boiler body AMC 90/115	HC247	558286
Adapter bi-flow 2 x Ø 80 mm	DY906	5100762
Adapter bi-flow 2 x Ø 100 mm	DY907	5101626
Gas valve to operate on propane of AMC 90*	-	7606393

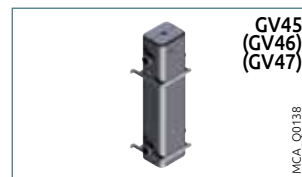
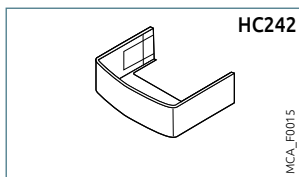
* To order at the spare parts department

DHW PRODUCTION

	PACKAGE	REF.
With solar calorifier		see chapter 10
With independent water calorifier		see chapter 08
DHW temperature sensor	AD212	100000030
AMC 45 to 115/independent or solar calorifier kit	EA121	100007827

Boiler ROOM EQUIPMENT

See chapter 15



ACCESSORIES

(CASCADE SYSTEMS)

	PACKAGE	REF.
AMC mounting rail on an existing MC cascade system ("LV" and "RG" alignment only)	HC245	5101463
Gas filter Ø 50 mm	HC255	5101655
Counter flanges DN 50 for gas filter	HC261	5103345
Set of elbows Ø 65 mm	HC209	111788
Extension pipe for gas filter Ø 50 mm	HC211	111805
Collector insulation	HC213	111069
Insulation for hydraulic boiler connection kit	HC252	122441
Rear insulation for hydraulic boiler connection kit	HC243	123182
Decoupling cylinder insulation < 350 kW	HC224	115269
Decoupling cylinder insulation > 350 kW	HC215	111067
Insulation 90° elbow	HC216	111167
Set of counter flanges to be welded Ø 65 mm	HC217	112632
Adjustable foot	HC219	111807
► For cascade of 428 to 1070 kW:		
Gas filter Ø 65 mm	HC256	5101656
Set of elbows Ø 100 mm	HC210	111790
Extension pipe for gas filter Ø 65 mm	HC212	111806
Set of counter flanges to be welded Ø 100 mm	HC218	112633
Flue gas adapter Ø 80 to 100 mm	DY768	84887768
Decoupling cylinder DN 65 < 350 kW	HC222	114311
Decoupling cylinder DN 65 - 350-460 kW	HC200	111712
Decoupling cylinder DN 100 > 460 kW	HC201	111714

OPTIONS

FOR EVODENS PRO AMC 45 TO 115

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONTROL PANEL TYPE AND THE CONNECTED CIRCUITS

		Boiler self-standing or boiler 1 of a cascade						Boiler 2 to 8 of a cascade for additional boiler (2)		
Circuit type		DHW	direct	valve	direct + 1 valve	2 x valve	direct + 2 x valve	valve	2 x valve	3 x valve
EVODENS PRO AMC 45 to 115 with control panel:	IniControl 2 (3)	no	no	no	no	no	no	no	no	no
	DIEMATIC Evolution (3)	1 x AD212	as standard (1)	1 x AD199	1 x AD199	2 x AD199	1 x AD199 + 1 x AD249	• With iniControl 2 control panel no no no • With DIEMATIC Evolution control panel (2) 1 x AD199 2 x AD199 2 x AD199 + 1 x AD249		

(1) + Package FM46 (outside temperature sensor) to control an installation of a single boiler according to the outside temperature.

(2) According to the number of heating circuits to be connected, it will be necessary to insert 1 or more AMC... Evolution slave boilers in the cascade, the other boilers of the cascade being fitted with the iniControl 2 control panel.

(3) The IniControl 2 panel is used: • for the slave boilers in a cascade, managed with a master boiler equipped with a DIEMATIC Evolution control panel.
• for systems using the 0-10 V contact to a control cabinet in the boiler room.

DESCRIPTION

• For DIEMATIC Evolution control panel:

DESCRIPTION	PACKAGE	REF.
Room thermostat:		
• Non-programmable room thermostat (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
Connected room thermostat:		
• SMART TC°, R-BUS (wire)	AD324	7691375
• SMART TC° RF (wireless)	AD341	7691377
• SMART TC° RF (wireless) for 2 nd circuit	AD342	7765144
Sensor:		
• Outside sensor	FM46	85757741
• Sensor for mixing valve	AD199	88017017
• DHW sensor	AD212	100000030
• Outside sensor (wireless) only in combination with the AD341*	AD346	7776874
PCB + sensor for mixing valve	AD249	100013304
Cascade flow sensor or sensor for storage tank	AD250	100013305

* need to order the connected room sensor AD341

DESCRIPTION

S-BUS cable with plug:

DESCRIPTION	PACKAGE	REF.
• 1.5 m	AD308	7663618
• 12 m	AD309	7663561
• 20 m	AD310	7663619
S-BUS plug	AD321	7688305

MOD-BUS cable:

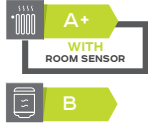
DESCRIPTION	PACKAGE	REF.
• 1.5 m	AD124	88017836
• 12 m	AD134	88017851
• 40 m	DB119	81997720
Communication gateway GTW08 L-BUS-ModBus	AD332	7721982
Control unit VM DIEMATIC Evolution, wall-mounted	AD315	7676561
Communication gateway GTW21 BACnet	-	7756023



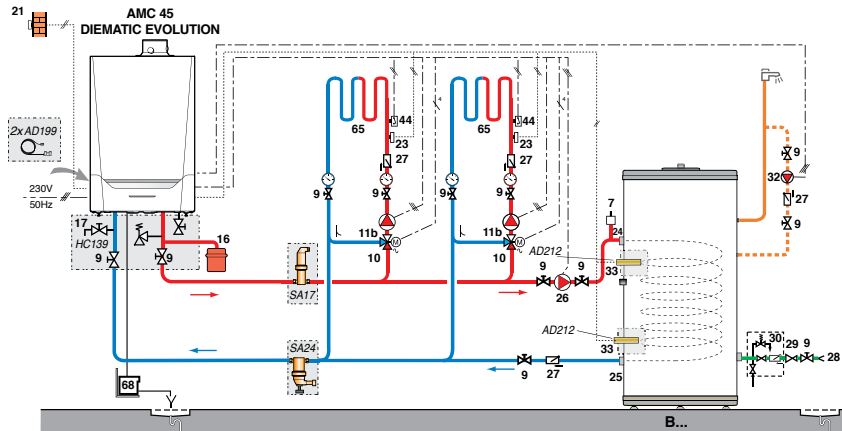
EXAMPLES OF INSTALLATION

FOR EVOSENS PRO AMC 45 TO 115

Evodens Pro AMC 45 DIEMATIC Evolution



- 2 circuits with mixing valve
- 1 DHW calorifier

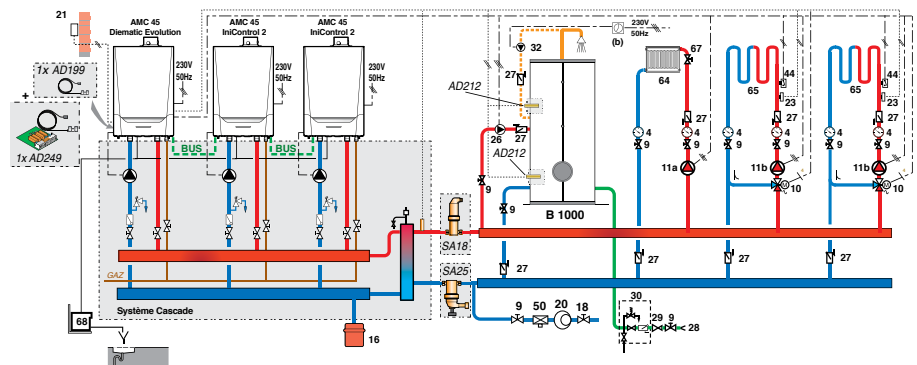


DESCRIPTION

	PACKAGE	REF
Boiler AMC 45 Evolution	HR161	7699475
Decoupling cylinder 60/60 - 1"	GV45	100019346
2 x Sensor for mixing valve	2 x AD199	2 x 88017017
DHW calorifier BPB 401	EC790	7682199
DHW temperature sensor	AD212	100000030
Options		
- Hydraulic connection kit MCA 45	HC139	100002310
- Primary pump	HC147	100002323
- Microbuble degasser Rp 1"1/4	SA17	7650330
- Sludge separator Rp 1" (3,7 m³/h)	SA24	7650376

Evodens Pro AMC 45 DIEMATIC Evolution + 2 x AMC 45 IniControl 2

- 1 direct circuit
- 2 circuits with mixing valve
- 1 DHW calorifier



DESCRIPTION

	PACKAGE	REF
Boiler AMC 45 Evolution	HR161	7699475
2 x boiler AMC 45 IniControl 2	2 x HR167	2 x 7684462
Sensor for mixing valve	AD199	88017017
PCB + sensor for mixing valve	AD249	100013304
Cascade system for 3 boilers AMC 45 wall-hung alignment	-	LW.0120kW.30000
Calorifier B1000 (tank)	AJ80	7650482
Rigid caising for B 1000	AJ97	7650499
DHW temperature sensor	AD212	100000030
Options		
- Microbuble degasser Rp 1"1/2	SA18	7650333
- Sludge separator Rp 1" 1/2 (5,0 m³/h)	SA25	7650377

PROJECT



MCA_Q0200

Innovens Pro

MCA 160 from 34.7 to 161.6 kW



Excellent power/compactness ratio



Hydrogen



Wall-hung gas condensing boiler, equipped to operate on natural gasses and can be converted to propane.

- Gas supply pressure: 20/25 mbar
- Low pollutant emissions: NOx < 39 mg/kWh
- Monoblock heating body in aluminium/silicium
- Gas premix burner in stainless steel modulating from 23 to 100% of output
- Gas line with non return valve, fan with silencer at the air inlet, delivered with automatic air vent and run-off siphon.

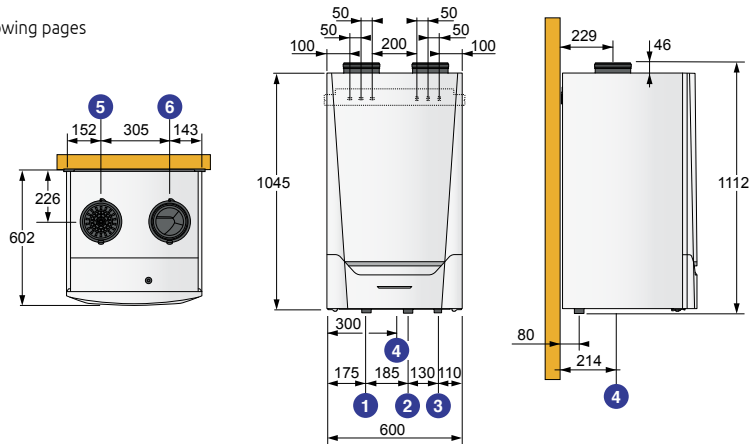
- Control panel DIEMATIC Evolution: see control options.
- Packaging: 2 packages

N° CE 0063CQ3781

OPTIONS: see following pages/ **CASCADE SYSTEMS:** see following pages
FLUE SYSTEMS: see chapter 14

MAIN DIMENSIONS (mm and inches)

- ① Heating return R 1" 1/4
- ② Heating flow R 1" 1/4
- ③ Gas inlet R 1"
- ④ Condensates drain (siphon provided)
- ⑤ Air inlet connection Ø 150 mm
- ⑥ Flue gas connection Ø 150 mm



MCA_F0225

TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C
Max. operating pressure: 4 bar

Power supply: 230 V/50 Hz
Protection index: IP X1B

NOx classification: 6

Classification: B_{23P}, B₃₃, C₁₃, C₃₃, C₄₃, C₅₃, C₆₃, C₈₃, C₉₃

MODEL

	MCA	160
Nominal output	kW	161.6
Efficiency at ...% water temp ...°C	%	97.5
	%	108.5
Useful efficiency at 100% of rated heat output	%	87.8
Useful efficiency at 30% of rated heat output	%	97.8
Stand-by losses at ΔT = 30 K	W	191
Auxiliary electrical power at Pn (without circul. pump)	W	275
Power consumption-standby		5
Min./max. useful output at 50/30°C	kW	34.7 - 161.6
Min./max. useful output at 80/60°C	kW	31.5 - 152.1
Flue gas pressure available	Pa	200
Water content	l	17
Minimum flow rate when working at 75°C	m ³ /h	0.4
Net weight	kg	147

MODEL

	MCA	160
MCA 160 DIEMATIC Evolution	Ref.	7674142

Innovens PRO

MCA160 cascade systems from da 304 a 1 216 kW



- MCA 160 cascade systems are available in 3 versions
 - LW: for wall-mounted alignment of the constituent boilers,
 - LV: for floor-mounted alignment of the constituent boilers,
 - RG: for back-to-back floor-mounted alignment of the constituent boilers.
- These systems comprise:
 - the low-loss header,
 - the boiler connection manifold, comprising the heating return and flow connecting pipes, the gas connecting pipes,
 - the modulating primary injection pumps (EEI < 0.23),
 - the boiler connection kits with the return valve, the multifunction flow valve (with the filling and drain valve, gate valve, non-return valve, safety valve and port for connecting to an expansion vessel), and the gas valve
 - the wall mounting rail for the LW versions or the support uprights for LV and RG versions, with the boiler mounting frames.
 - the flow sensor + pocket sensor and the BUS cables to connect the boilers.

NOTA: the boilers must be ordered separately
 OPTIONS: see following pages



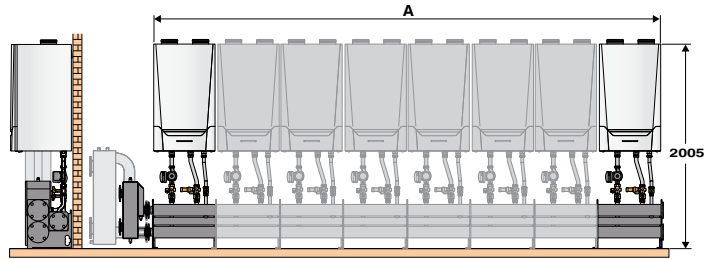
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OPTIONS: see following pages

CASCADE COMBINATIONS DEPENDING ON THE TOTAL REQUIRED OUTPUT (1)

- WALL-HUNG ALIGNMENT: "LW":

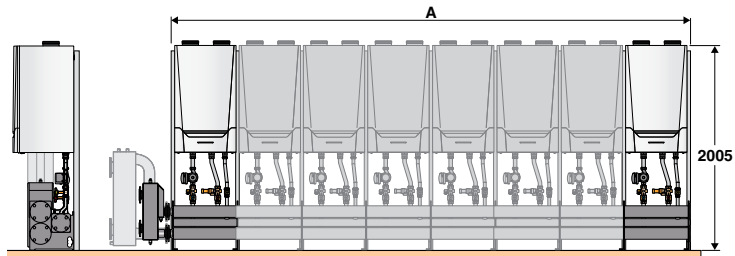
number of boiler	dimensions (mm)			
	A	D	Water Ø DN	Gas Ø DN
2 x MCA 160	1230	1621	65	65
3 x MCA 160	1860	2591	65	65
4 x MCA 160	2490	3153	100	65
5 x MCA 160	3120	3783	100	65
6 x MCA 160	3750	4413	100	65
7 x MCA 160	4380	5043	100	65
8 x MCA 160	5010	5673	100	65



number of boiler	OUTPUT (80/60°C) KW	WATER FLOW ΔT = 20 K m³/h	DESIGNATION AND REF. (*)
2	304	13,10	LW.0304kW.00002
3	456	19,65	LW.0456kW.00003
4	608	26,20	LW.0608kW.00004
5	760	32,75	LW.0760kW.00005
6	912	39,50	LW.0912kW.00006
7	1 064	45,85	LW.1064kW.00007
8	1 216	52,40	LW.1216kW.00008

- FLOOR-STANDING ALIGNMENT: "LV":

number of boiler	dimensions (mm)			
	A	D	Water Ø DN	Gas Ø DN
2 x MCA 160	1310	1671	65	65
3 x MCA 160	1940	2641	65	65
4 x MCA 160	2570	3203	100	65
5 x MCA 160	3200	3833	100	65
6 x MCA 160	3830	4463	100	65
7 x MCA 160	4460	5093	100	65
8 x MCA 160	5090	5723	100	65



number of boiler	OUTPUT (80/60°C) KW	WATER FLOW ΔT = 20 K m³/h	DESIGNATION AND REF. (*)
2	304	13,10	LV.0304kW.00002
3	456	19,65	LV.0456kW.00003
4	608	26,20	LV.0608kW.00004
5	760	32,75	LV.0760kW.00005
6	912	39,50	LV.0912kW.00006
7	1 064	45,85	LV.1064kW.00007
8	1 216	52,40	LV.1216kW.00008

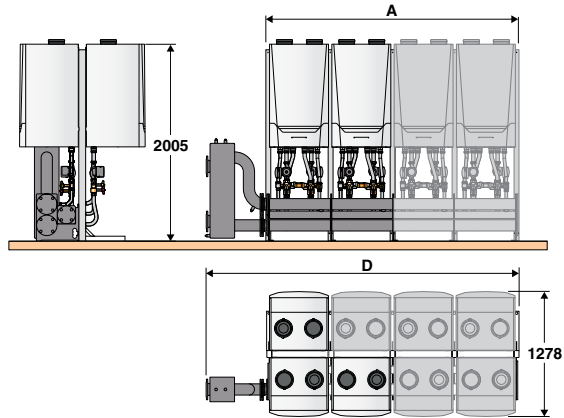
(*) except insulating shells

(1) N.B.: For further details, measurements and technical data refer to the specific documentation

CASCADE COMBINATIONS DEPENDING ON THE TOTAL REQUIRED OUTPUT (1)

- BACK TO BACK ALIGNMENT: "RG":

number of boiler	dimensions (mm)			
	A	D	Water Ø DN	Gas Ø DN
3 x MCA 160	1310	2011	65	65
4 x MCA 160	1310	1943	100	65
5 x MCA 160	1940	2573	100	65
6 x MCA 160	1940	2573	100	65
7 x MCA 160	2570	3203	100	65
8 x MCA 160	2570	3203	100	65



MCA_F0095

number of boiler	OUTPUT (80/60°C) kW	WATER FLOW $\Delta T = 20 K$ m ³ /h	DESIGNATION AND REF. (*)
3	456	19,65	RG.0456kW.00003
4	608	26,20	RG.0608kW.00004
5	760	32,75	RG.0760kW.00005
6	912	39,50	RG.0912kW.00006
7	1 064	45,85	RG.1064kW.00007
8	1 216	52,40	RG.1216kW.00008

OPTIONS

FOR INNOVENS PRO MCA 160

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

	PACKAGE	REF.
Hydraulic connection kit + gas valve MCA 160	EH680	7637550
Modulating primary heating pump MCA 160	EH651	7637223
Decoupling cylinder 120/80 - 2" (MCA 160)	GV47	100019348
Propane conversion kit	EH693	7656909
Gravity flow condensate neutralisation station DN 2.0 (up to 450 kW) MCA 160	SA3	7613609
Condensate neutralisation station with lift pump:		
- boiler up to 300 kW	SA4	7613610
- boiler up to 1300 kW	DU15	83877011
Granulate recharge for neutralisation station (10 kg)*	-	94225601
Granulate recharge for neutralisation station (25 kg)	SA7	7613613
Ø 150 to Ø 200 mm adapter	EH645	7627596
Air filter	EH646	7624821

* To order at the spare parts department

DHW PRODUCTION

	PACKAGE	REF.
With solar calorifier		see chapter 10
With independent water calorifier		see chapter 08
DHW temperature sensor	AD212	10000030

ACCESSORIES

(CASCADE SYSTEMS)

	PACKAGE	REF.
Decoupling cylinder DN 100 > 460 kW	HC201	111714
Gas filter Ø 65 mm	HC256	S101656
Set of elbows Ø 65 mm	HC209	111788
Set of elbows Ø 100 mm	HC210	111790
Set of counter flanges to be welded Ø 65 mm	EH669	7638518
Set of counter flanges to be welded Ø 100 mm	HC218	112633
Manifold insulation	EH647	7613401
Boiler hydraulic connection kit insulation	HC648	7611804
Rear insulation for boiler connection kit	EH649	7631858
Decoupling cylinder insulation > 350 kW	HC215	111067
Insulation 90° elbow	HC216	111167
DN 65 to DN 100 flange adapter insulation	EH650	7622201
Adjustable foot	HC219	111807
S-BUS cable with plugs, 1.5 m	AD308	7663618

Boiler ROOM EQUIPMENT

See chapter 15


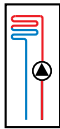
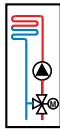
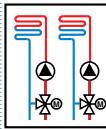
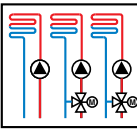
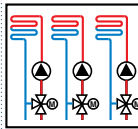
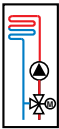
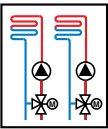
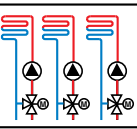

		
		
		
		
		
		
		
		
		
		
		

OPTIONS

FOR INNOVENS PRO MCA 160

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONTROL PANEL TYPE AND THE CONNECTED CIRCUITS

		Boiler self-standing or boiler 1 of a cascade						Boiler 2 to 8 of a cascade for additional boiler: (2)		
Circuit type										
	DHW	direct or	valve or	2 x valve	direct + 2 x valve	3 x valve	valve	2 x valve	3 x valve	
Innovens Pro MCA 160 with control panel		1 x AD212	as standard (1)	1 x AD199	2 x AD199	1 x AD199 1 x AD249	2 x AD199 1 x AD249	1 x AD199	2 x AD199	2 x AD199 + 1 x AD249
	DIEMATIC Evolution									

(1) + Package FM46 (outside temperature sensor) to control an installation of a single boiler according to the outside temperature.

(2) According to the number of heating circuits to be connected, it will be necessary to insert 1 or more MCA... EVOLUTION slave boilers in the cascade, the other boilers of the cascade being fitted with the EVOLUTION control panel.

DESCRIPTION

• For DIEMATIC Evolution control panel

Room thermostat:

- Non-programmable room thermostat (wire)
- Programmable (wired with battery)
- Programmable (wireless)

Connected room thermostat:

- SMART TC°, R-BUS (wire)
- SMART TC° RF (wireless)
- SMART TC° RF (wireless) for 2nd circuit

Sensor:

- Sensor for mixing valve
- DHW sensor
- Outside sensor (wireless) only in combination with the AD341*

Cascade flow sensor or sensor for storage tank

- PCB + sensor for mixing valve

* need to order the connected room sensor AD341

PACKAGE

REF.

AD140 **88017859**

AD337 **7768817**

AD338 **7768818**

AD324 **7691375**

AD341 **7691377**

AD342 **7765144**

AD199 **88017017**

AD212 **10000030**

AD346 **7776874**

AD250 **100013305**

AD249 **100013304**

DESCRIPTION

S-BUS cable with plug:

- 1.5 m
- 12 m
- 20 m

S-BUS plug

MOD-BUS cable:

- 1.5 m
- 12 m
- 40 m

Communication gateway GTW08 L-BUS-ModBus

Control unit VM DIEMATIC Evolution, wall-mounted

Communication gateway GTW21 L-BUS- BACnet

PACKAGE

REF.

AD308 **7663618**

AD309 **7663561**

AD310 **7663619**

AD321 **7688305**

AD124 **88017836**

AD134 **88017851**

DB119 **81997720**

AD332 **7721982**

AD315 **7676561**

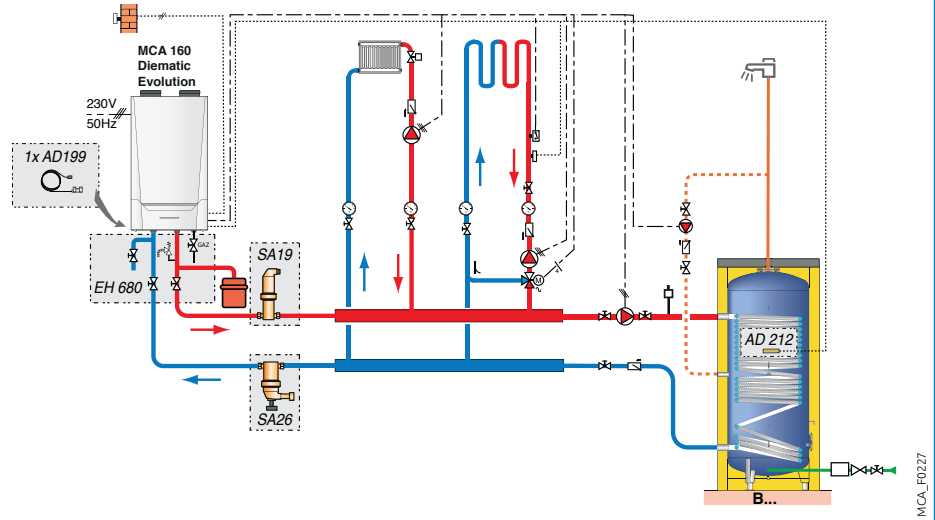
- **7756023**



EXAMPLES OF INSTALLATION

FOR INNOVENS PRO MCA 160

Innovens Pro MCA 160 Diematic Evolution

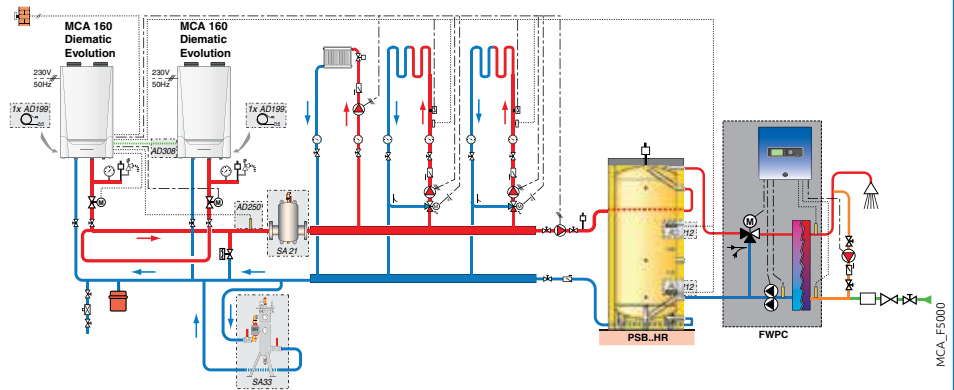


- 1 direct circuit
- 1 circuit with mixing valve
- 1 DHW calorifier

DESCRIPTION

	PACKAGE	REF
Boiler MCA 160 DIEMATIC Evolution	-	7674142
Sensor for mixing valve	AD199	88017017
Calorifier B650 (tank)	AJ78	7650480
Rigid casing for B650	AJ94	7650496
DHW sensor	AD212	10000030
Options		
- Hydraulic connection kit + gas valve MCA	EH680	7637550
- Microbubble degasser Rp 2"	SA19	7650334
- Sludge separator Rp 2" (8.0 m³/h)	SA26	7650378

Innovens Pro MCA 160 Diematic Evolution



- 2 circuits with mixing valve
- 1 direct circuit
- 1 DHW circuit

DESCRIPTION

	PACKAGE	REF
2 x boilers MCA 160 DIEMATIC Evolution	-	2 x 7674142
Sensor for mixing valve	AD199	88017017
PCB + sensor for mixing valve	AD249	100013304
Plate exchanger for instant DHW FWPC 5037 - 350	EC771	7661873
Storage tank PSB 1000	AJ54	7650456
Rigid casing for PSB 1000	AJ89	7650491
2 x DHW sensor	2 x AD212	2 x 10000030
Cascade flow sensor	AD250	100013305
S-BUS cable with plugs, 1.5 m	AD308	7663618
Options		
- Microbubble degasser DN65	SA21	7650338
- Clarifier unit DN32 (4.0 m³/h)	SA33	7651695

FLOOR-STANDING GAS CONDENSING BOILERS

RESIDENTIAL DOMESTIC SELECTION GUIDE

Twineo



EGC 25



EGC 25 V 100 SL



EGC 25 V 200 SSL



EGC 25 VE 200 SHL



Nominal output at 80/60°C (heating)	kw	24.8	24.8	24.8	24.8
Nominal output at 80/60°C (DHW)	kw	28.0	28.0	28.0	28.0
Energy efficiency class (heating)					
Energy efficiency class (DHW)					
Specific flow rate compliance with EN13203	l/min	-	18.0	18.0	18.0
Control panel to manage					
For connection		chimney or forced flue	chimney or forced flue	chimney or forced flue	chimney or forced flue
Equipped for the connection of an independent tank		X	-	-	-
Domestic hot water production with		-	column version	column version + solar with complete solar unit	column version + solar with complete solar unit
Connectivity (in option)		Smart TC° OT	Smart TC° OT	Smart TC° OT	Smart TC° OT
Application		New build and renovation	New build and renovation	New build and renovation	New build and renovation
Pages		106	107	107	107



















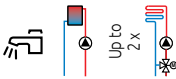
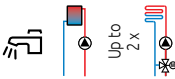
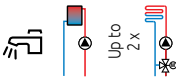
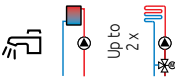
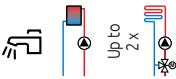
Flue systems

See chapter flue systems

Options and examples of installation

108

Modulens G[®]

							
	AGC 15 to 35	AGC 15 to 35 V 100 HL	AGC 15 to 35 VL 160 SL	AGC 15 to 35 V 160 SL	AGC 15 to 35 B 160 SL	AGC 15 to 35 V 220 SHL	AGC 15 to 35 B 220 SHL
							
	14.9 to 34.8	14.9 to 34.8	14.9 to 34.8	14.9 to 34.8	14.9 to 34.8	14.9 to 34.8	14.9 to 34.8
	14.9 to 34.8	14.9 to 34.8	14.9 to 34.8	14.9 to 34.8	14.9 to 34.8	14.9 to 34.8	14.9 to 34.8
							
							
	-	21.0 to 28.0	20.0 to 24.5	20.0 to 24.5	20.0 to 24.5	20.0 to 26.0	20.0 to 26.0
							
	chimney or forced flue	chimney or forced flue	chimney or forced flue	chimney or forced flue	chimney or forced flue	chimney or forced flue	chimney or forced flue
	X	-	-	-	-	-	-
	-	column version	horizontal column version	column version	juxtaposed	column version + solar with complete solar unit	column version + solar with complete solar unit
	-	-	-	-	-	-	-
	New build and renovation	New build and renovation	New build and renovation	New build and renovation	New build and renovation	New build and renovation	New build and renovation
	110	111	111	112	112	113	113

See chapter flue systems

EASYLIFE

Twineo

EGC 25 from 5.6 to 25.5 kW

point

Fully equipped boiler



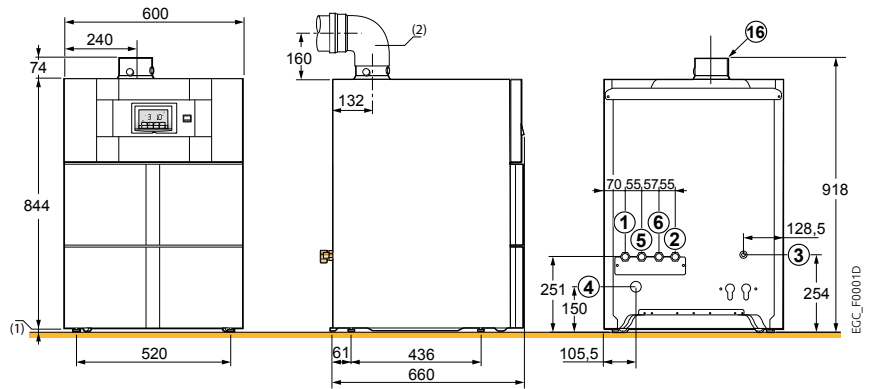
- Fitted to operate on natural gases
- Operation on propane with conversion kit delivered
- For connection to a horizontal or vertical air/flue gas terminal (homologations C_{13x}, C_{33x}) to a chimney (homologation B_{23p} and C_{93x}), in bi-flow (homologation C₅₃) or on a collective flue system (homologation C_{43x}) (options)
- Exchanger cast alloy Aluminium/Silicium
- Gas premix burner in stainless steel, modulating from 22 to 100% of output
- Burner fitted with a non-return valve to run with pressurised evacuation systems
- Electronic ignition and ionization flame check
- Boiler equipped with: modulating pump, 3 bar safety valve, 12 litre expansion vessel, heating/DHW reversal valve, automatic air vent
- Inicontrol control panel with adjustable control module
- Adjustable feet
- Packaging: 1 package

N° CE 0085CM0178

OPTIONS: see following pages / **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

- ① ② Heating flow/return direct circuit G 3/4"
- ③ Gas inlet Ø G 1/2"
- ④ Condensate drain, siphon provided, PVC pipe Ø 24 x 19mm
- ⑤ ⑥ Primary return/inlet from independent calorifier (with package JA10 – option) G 3/4"
- ⑩ Domestic cold water inlet G 3/4"
- ⑪ Domestic hot water outlet G 3/4"
- ⑭ Primary inlet from solar coil Cu 18mm
- ⑮ Primary outlet from solar coil Cu 18mm
- ⑯ Evacuation of combustion products and air inlet pipe Ø60/100mm
- (1) Feet adjustable from 10 to 30mm
- (2) Elbow delivered with the DY871 horizontal forced flue (optional). The optional reduced JA43 elbow is used to bring down the height from 160 mm to 100 mm



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C : Safety thermostat: 110°C : Protection index: IP X4D : Classification: B_{23p}, B₃₃, C_{13x}, C_{33x}, C_{93x}, C₅₃, C_{43x}, C_{83x}
 Max. operating pressure: 3 bar : Power supply: 230 V/50 Hz : NOx classification: 6

MODEL

	EGC	25	
Useful output at 50/30°C Pn (heating mode)	kW	5.6-25.5	
Efficiency at ...% output and ...°C water temperature	- 100% Pn at average temp. 70°C - 100% Pn at return temp. 30°C - 30% Pn at return temp. 30°C	99.2	
		102.0	
		110.1	
Seasonal space heating energy efficiency (without contribution of regulation)	%	94	
Seasonal space heating energy efficiency (with outdoor sensor)	%	96	
Water flow at ΔT = 20 K	m ³ /h	1.06	
Min.-max. useful output at 80/60°C (Heating mode)	kW	5.0-24.8	
Max. useful output at 80/60°C (DHW mode)	kW	28	
Manometric height available heating circuit	mbar	200	
Water content	L	1.9	
Gas flow at Pn (15°C, 1013 mbar)	- natural gas H	m ³ /h	3.10
	- propane	m ³ /h	1.20
Max. flue gas mass flow rate	kg/h	50	
Flue gas pressure available	Pa	130	
Net weight	kg	54	

MODEL

	EGC	25
Package		JAS
Ref.		100016316

GAS

FLOOR-STANDING GAS CONDENSING BOILER FOR HEATING AND DHW PRODUCTION



Compact solution:
Height 1 408mm



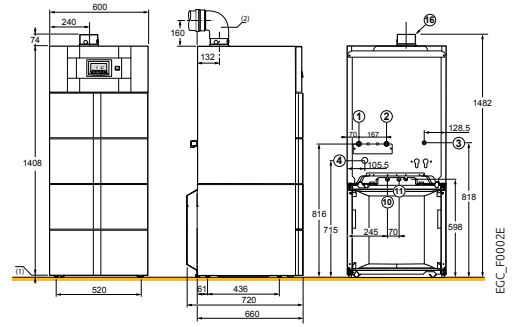
Twineo

EGC 25/V 100 SL from 5.6 to 25.5 kW



Enamelled coil calorifier "Standard Load". Calorifier positioned under the boiler to form a uniform "column"

- Equipped with a magnesium anode, boiler/calorifier connecting pipes, DHW sensor, adjustable feet
- Packaging: 3 packages



EGC 25/V 100 SL PACKAGE REF.

MODEL

Boiler	JA5	100016316
Calorifier	ER226	100016431
Connection kit boiler/calorifier + DHW sensor	JA8	100017391



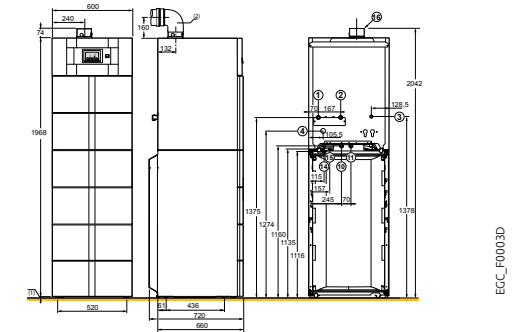
Twineo

EGC 25/V 200 SSL from 5.6 to 25.5 kW



Enamelled with twin coil calorifier "Standard Load" for connection to a solar system. Calorifier positioned under the boiler to form a uniform "column"

- Equipped with magnesium anode
- Equipped with a complete solar unit: pump, expansion vessel 12 l, safety unit, air vent, glycol tank, solar control system
- With boiler/calorifier connecting pipes, DHW sensor, adjustable feet
- Packaging: 4 packages



EGC 25/V 200 SSL PACKAGE REF.

MODEL

Boiler	JA5	100016316
Calorifier	ER221	100016426
Connection kit boiler/calorifier + DHW sensor	JA8	100017391
Kit solar expansion vessel	JA72	7605758



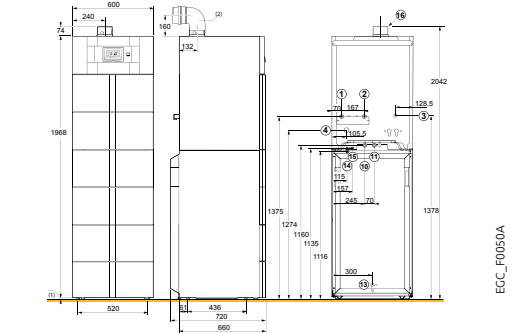
Twineo MI

EGC 25/VE 200 SHL from 5.6 to 25.5 kW



Enamelled with twin coil calorifier "High Load" equipped with a plate exchanger combined with a loop pump and a coil for connection to a solar system. Calorifier positioned under the boiler with the same aesthetic as the boiler

- Equipped with magnesium anode
- Equipped with a complete solar unit: pump, expansion vessel 12 l, safety unit, air vent, glycol tank, solar control system
- With boiler/calorifier connecting pipes, DHW sensor, adjustable feet
- Packaging: 4 packages



EGC 25/V 200 SSL PACKAGE REF.

MODEL

Boiler	JA5	100016316
Calorifier	ER770	7652032
Connection kit boiler/calorifier + DHW sensor	JA9	100017392
Kit solar expansion vessel	JA72	7605758

NOTA: dimensions and legends: see opposite

TECHNICAL SPECIFICATIONS DOMESTIC HOT WATER (boiler see opposite)

Max. operating temperature DHW: 70°C

Max. operating pressure DHW: 10 bar

Max. solar operating pressure (EGC.../200 SSL and VE 200 SHL): 6 bar

MODEL	EGC 25/V 100 SL	25/V 200 SSL	25/VE 200 SHL
Useful output boiler at 50/30°C	25.5	25.5	25.5
DHW calorifier capacity	90	200	220
Solar volume/Back-up volume	-	110/90	166/54
DHW exchanged power	24	24	28
Flow over 10 min at ΔT = 30 K	180	180	190
Flow per hour at ΔT = 35 K	590	590	690
Specific rate at ΔT = 30 K (compliance with EN 13203-1)	18	18	19
Coefficient of heat losses	1.38	2.09	2.09
Net weight EGC... V	117	172	175

DHW performances at room temperature 20°C. cold water temp. 10°C. primary hot water temp. 80°C. storage temp. 60°C

OPTIONS

FOR TWINEO EGC...

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

(NOT PROVIDED WITH THE SET)	PACKAGE	REF.
▶ For EGC 25/V 100 SL, V 200 SSL and VE 200 SHL (column version)		
Connection kit with prefitted water and gas stop cocks, integrated disconnecter and DHW safety valve:		
- Central connection kit	7793357	
- Right connection kit	7793359	
- Left connection kit	7793358	
▶ For EGC 25 (heating only) and models with juxtaposed calorifier		
Connection kit with prefitted water and gas stop cocks	7793360	
▶ For EGC/V 200 SSL		
Connection kit for juxtaposed calorifier	ER228	100016480

DHW PRODUCTION

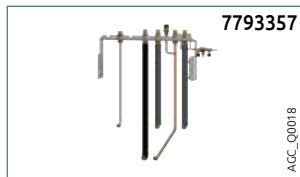
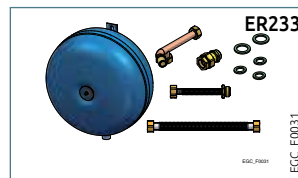
	PACKAGE	REF.
- With juxtaposed or located under the boiler calorifier		see previous pages
- With independent calorifier		see chapter 08
- With independent solar calorifier		see chapter 10
DHW sensor	AD212	100000030
Internal connecting pipes for the connection of an independent calorifier	JA10	100017393
Kit DHW expansion vessel (for EGC 25/V 100 SL only)	ER233	100018204



OTHER ACCESSORIES

	PACKAGE	REF.
Condensates neutralisation system (with pump)	DU13	83877009
Condensates neutralisation system DN 2.0 (without pump)	SA3	7613609
Condensates neutralisation station (without pump) DN 1	SA1	7613605
Wall bracket for neutralisation station DN 1	SA2	7613606
Neutralisation granule refill 10 kg *	-	94225601
Neutralisation granule refill 25 kg	SA7	7313613
Flue gas thermostat	JA38	100018163
Propane conversion kit EGC 25	JA40	100018165
18 l expansion vessel (replaces the 12 l expansion vessel delivered with EGC/200 SSL and VE200 SHL boiler)	JA74	7607001
Horizontal terminal Ø60/100mm	DY871	100008296
Reducing elbow Ø60/100mm	JA43	100018253
Vertical terminal black Ø80/125mm	DY844	100002733
Vertical terminal red Ø80/125mm	DY843	100002732
Adapter Ø80/125mm	HR38	5100465
Bi-flue adapter 2 x Ø80mm	DY868	100005825
Connecting kit Ø80/125mm on a collective flue system	DY887	100014000
Hydraulic module compact 2 circuits with modulating pump with energy efficiency index EEI < 0.23	EA145	100020169

* to order at the spare parts department



CONTROL UNITS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Control panel IniControl	EGC 25	Circuit type	
		DHW	direct
	EGC 25	AD212 (1)	as standard (2)
	EGC 25/V 100 SL EGC 25/ V 200 SSL EGC 25/VE 200 SHL	as standard (1)	as standard (2)

Control system that operates according to the room or outside temperature:
 (1) To enable programming of the DHW function, modulating room temperature thermostats AD304 or AD303 is necessary
 (2) To be complemented where needed by:
 - If you want a control system that operates according to room temperature: room temperature thermostat (package AD337, AD338, AD140, AD288, AD289, AD301, AD303, AD304 or AD311)
 - If you want a control system that operates according to outside temperature:
 • outside temperature sensor package FM46
 • outside temperature sensor + room thermostat (package AD337, AD338, AD140, AD288, AD289, AD301, AD303, AD304 or AD311)

CONTROL UNITS

	PACKAGE	REF.
Room thermostat:		
- Non-programmable (wire)	AD140	88017859
- Programmable (wired with battery)	AD337	7768817
- Programmable (wireless)	AD338	7768818
Connected room thermostat:		
- SMART TC [®] "OT" for on/off connection (wire)	AD311	7649289
- SMART TC [®] RF (wireless)	AD341	7691377
Modulating room thermostat:		
- Programmable (wireless) (for East Europe)	AD288	5103295
- Programmable (wire) (for East Europe)	AD289	5103293
- Non programmable "OpenTherm" with room sensor (wire)	AD301	7612097
- Programmable with energy metering function (wireless)	AD303	7609762
- Programmable with energy metering function (wire)	AD304	7609763
Sensor:		
- Outside sensor	FM46	85757741
- DHW sensor	AD212	100000030



OPTIONS AND EXAMPLES OF INSTALLATIONS

FOR TWINEO EGC...

FLAT SOLAR COLLECTORS RECOMMENDED WITH EGC 25 boiler/V 200 SSL AND VE 200 SHL



NUMBER OF PEOPLE LIVING IN THE HOME	from to			from to				
	1 x INISOL DH 200 SL (2 m ²)			2 x INISOL DH 200 SL (4 m ²)				
Flat solar collectors or solar collector field («roof» packs) recommended (1):	Terrace	ER777	ER771	ER774	Terrace	ER778	ER772	ER775
	ST				ST			
package	ER777	ER771	ER774	ER778	ER772	ER775		
Ref.	7652656	7652623	7652652	7652657	7652638	7652653		
Heat transfer fluid type L (premixure 60/40, -21°C)	package	EG101	EG101	EG101	EG101	EG101	EG101	EG101
	Ref.	89807794	89807794	89807794	89807794	89807794	89807794	89807794

(1) Type of anchorage fittings to select depending of the roof type (see chapter 10).

Twineo EGC 25/VE 200 SHL



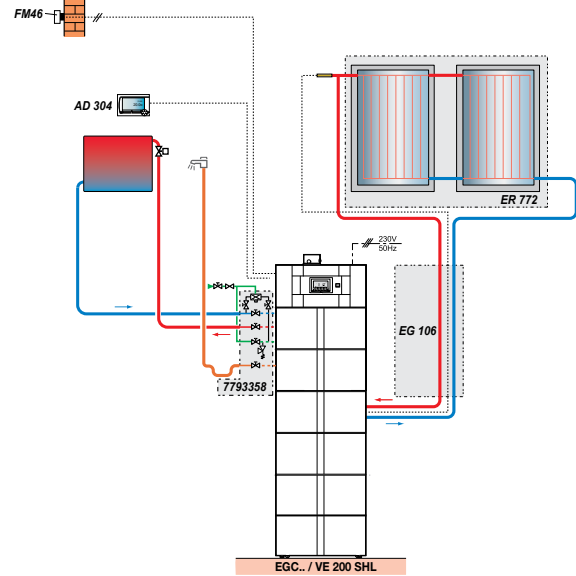
With room sensor
AD301, AD303 or AD304



- 1 direct circuit

DESCRIPTION

	PACKAGE	REF.
EGC 25 boiler	JA5	100016316
V 200 SHL calorifier	ER770	7652032
Connection kit Boiler/Calorifier + DHW-sensor	JA9	100017392
Roof pack 4 m ² collectors, i.e. 2 x DH 200 SL	ER772	7652638
Heat transfer fluid	EG101	89807794
Options		
- Left connection kit		7793358
- Modulating room thermostat programmable with energy metering function (wire)	AD304	7609763
- Outside temperature sensor	FM46	85757741
- Kit Duo-Tube Cu 15 x 10 m (with bicone connection)	EG106	89807000



EGC_F0113

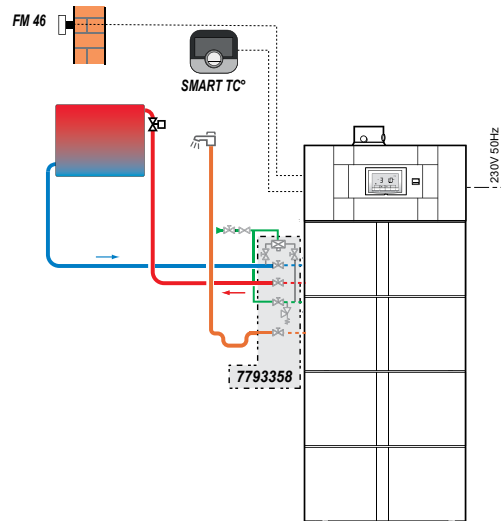
Twineo EGC 25/V 100 SL



- 1 direct circuit
- 1 solar circuit

DESCRIPTION

	PACKAGE	REF.
EGC 25 boiler	JA5	100016316
100 SL calorifier	EE226	100016431
Connection kit Boiler/Calorifier + DHW-sensor	JA8	100017391
Options		
- Left connection kit		7793358
- SMART TC [®] "OT" for on/off connection (wire)	AD311	7649289
- Outside sensor	FM46	85757741



EGC_F0108C

ADVANCE



Modulens G®

AGC 15, AGC 25, AGC 35 from 3.4 to 35.9 kW



High equipment level:
- DIEMATIC iSystem
- 18 l expansion vessel

- Fitted to operate on natural gases
- Operation on propane with conversion kit delivered
- For a connection to a horizontal or vertical air/flue gas terminal to a chimney in bi-flow or on a collective flue system (options)
- Exchanger cast alloy Aluminium/Silicium
- Gas premix burner in stainless steel, modulating from 22 to 100% of output
- Burner fitted with a non-return valve to run with pressurised flue systems
- Electronic ignition and ionization flame check
- Boiler equipped with: modulating pump, 3 bar safety valve, 18 litre expansion vessel (no vessel on AGC 35),

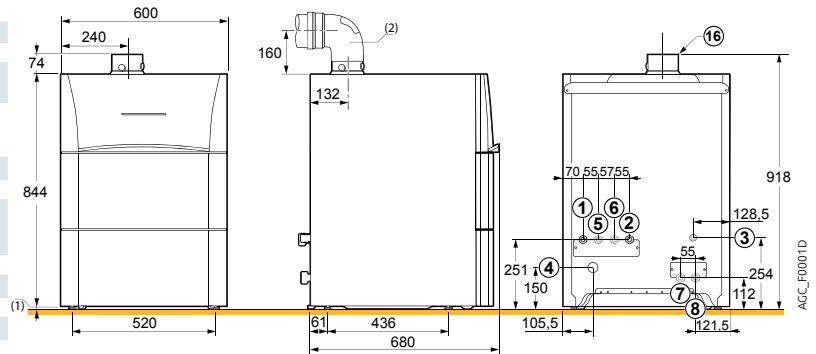
- heating/DHW reversal valve, automatic air vent, internal lighting that comes on automatically when the appliance is powered up
- DIEMATIC iSystem control panel with programmable electronic system based on the outside temperature
- Hydraulic modules available including a kit for circuit with mixing valve which can be integrated into the boiler (option)
- Packaging: 1 package

N° CE 0085CM0178

OPTIONS: see following pages / **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

- ① ② Heating flow/return direct circuit G 3/4"
 - ③ Gas inlet ØG 1/2
 - ④ Condensate drain, siphon provided, PVC pipe Ø24 x 19mm
 - ⑤ ⑥ Primary return/inlet from independent calorifier (with package JA10 - option) G 3/4"
 - ⑦ ⑧ Heating flow/return circuit with mixing valve G 3/4" (with package JA83: Internal pipe kit with motorised 3-way valve and pump, or with package JA7: Pipes only kit - options)
 - ⑩ Domestic cold water inlet G 3/4"
 - ⑪ Domestic hot water outlet G 3/4"
 - ⑫ DHW circulation loop return G 3/4" (with package ER 218: recirculation kit for 100 HL calorifiers, or with package ER219: recirculation kit for 160 SL and 220 SHL calorifier - options)
 - ⑬ Drain tap connection for pipe Ø ext. 14mm
 - ⑭ Primary inlet from solar coil Cu 18mm
 - ⑮ Primary outlet from solar coil Cu 18mm
 - ⑯ Evacuation of combustion products and air inlet pipe Ø60/100mm
- (1) Feet adjustable from 10 to 30mm
G: External cylindrical threading water tightness by flat gasket
(2) Elbow delivered with the HR48 horizontal forced flue. The optional reduced JA43 elbow is used to bring down the height from 160 mm to 100 mm



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C
Max. operating pressure: 3 bar

Safety thermostat: 110°C
Power supply: 230 V/50 Hz

Protection index: IP X4D
NOx classification: 6

Classification: B_{23P}, C_{13x}, C_{33x}, C_{93x}, C₅₃, C_{43x}, C_{83x}

MODEL

	AGC	15	25	35
Useful output at 50/30°C Pn (heating mode)	kW	3.4-15.8	5.6-25.5	7.0-35.9
Efficiency at ...%	%	99.3	99.2	99.1
output and ...°C	%	105.3	102.0	102.2
water temperature	%	110.2	110.1	110.6
Seasonal space heating energy efficiency (without contribution of regulation)	%	94	94	94
Seasonal space heating energy efficiency (with outdoor sensor)	%	96	96	96
Water flow at ΔT = 20 K	m³/h	0.62	1.04	1.46
Mini/max. useful output at 80/60°C (heating mode)	kW	3.0-14.9	5.0-24.8	6.3-34.8
Max. useful output at 80/60°C (DHW mode)	kW	14.9	28	34,8
Manometric height avail. heating circuit	mbar	525	200	150
Water content	l	1.9	1.9	2.5
Gas flow at Pn	m³/h	1.59	3.10	3.71
(15°C, 1013 mbar)	kg/h	1.17	2.28	2.73
Max. flue gas mass flow rate	kg/h	25.2	50.0	57.3
Flue gas pressure available	Pa	80	130	140
Net weight	kg	55	58	58

MODEL

	AGC	15	25	35
Package		JA2	JA3	JA4
Ref.		100016313	100016314	100016315

GAS

FLOOR-STANDING GAS CONDENSING BOILER FOR HEATING AND DHW PRODUCTION



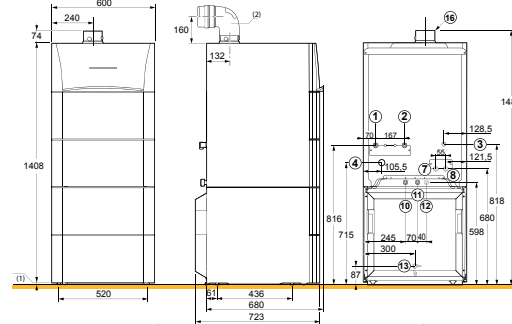
Compacity: Height 1 408mm
High DHW performances
Titan Active System®

Modulens G®

AGC.../V 100 HL from 3.4 to 35.9 kW



- High performance, enamelled stratification calorifier "High Load" equipped with a plate exchanger combined with a load pump
- Calorifier positioned under the boiler to form a uniform "column"
- Equipped with a TAS (Titan Active System®) anode, which does not consume matter
- Draining valve, coupling for a circulation loop boiler/calorifier connecting pipes, DHW sensor, adjustable feet
- Packaging: 3 packages



AGC_Q0002

AGC_F0002D

MODEL

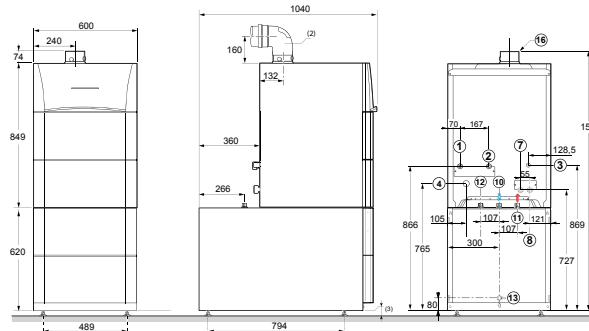
	15/V 100 HL		25/V 100 HL		35/V 100 HL	
Boiler	Package JA2	Ref. 100016313	Package JA3	Ref. 100016314	Package JA4	Ref. 100016315
100 HL calorifier	Package ER225	Ref. 100016430	Package ER225	Ref. 100016430	Package ER225	Ref. 100016430
Boiler/Calorifier connecting pipes + DHW sensor	Package JA9	Ref. 100017392	Package JA9	Ref. 100017392	Package JA9	Ref. 100017392

Modulens G®

AGC.../VL 160 SL from 3.4 to 35.9 kW



- Enamelled coil calorifier "Standard Load" from 160 l horizontally positioned under the boiler to form a uniform "column"
- Equipped with a TAS (Titan Active System®) anode, which does not consume matter
- Draining valve, coupling for a circulation loop boiler/calorifier connecting pipes, DHW sensor, adjustable feet
- Packaging: 3 packages



AGC_Q0046

AGC_F0038B

MODEL

	15/VL 160 SL		25/VL 160 SL		35/VL 160 SL	
Boiler	Package JA2	Ref. 100016313	Package JA3	Ref. 100016314	Package JA4	Ref. 100016315
160 SL calorifier	Package EC600	Ref. 100020079	Package EC600	Ref. 100020079	Package EC600	Ref. 100020079
Boiler/Calorifier connecting pipes + DHW sensor	Package JA9	Ref. 100017392	Package JA9	Ref. 100017392	Package JA9	Ref. 100017392

NOTA: dimensions and legends: see opposite

TECHNICAL SPECIFICATIONS DOMESTIC HOT WATER (boiler see opposite)

Max. operating temperature DHW: 70°C

: Max. operating pressure DHW: 10 bar

MODEL	AGC	15			25			35		
		/V 100 HL	/V 100 HL	/V 100 HL	/VL 160 SL	/VL 160 SL	/VL 160 SL	/VL 160 SL	/VL 160 SL	/VL 160 SL
Nominal output at 50/30°C	kW	15.8	25.5	35.9	15.8	25.5	35.9	15.8	25.5	35.9
DHW calorifier capacity	l	100	100	100	160	160	160	160	160	160
Exchanged power	kW	15	28	32	14.5	23.0	25.0	14.5	23.0	25.0
Flow over 10 min at ΔT = 30 K	l/10 min	210	255	280	240	245	245	240	245	245
Flow per hour at ΔT = 35 K	l/h	370	690	790	356	565	615	356	565	615
Specific rate at ΔT = 30 K (compliance with EN 13203)	l/min	21	25.5	28	20	24	24.5	20	24	24.5
Coefficient of heat losses	W/K	1.38	1.38	1.38	1.52	1.52	1.52	1.52	1.52	1.52
Net weight AGC... V	kg	111	114	114	141	144	144	141	144	144

DHW performances at room temperature 20°C, cold water temp. 10°C, primary hot water temp. 80°C, storage temp. 60°C

GAS

FLOOR-STANDING GAS CONDENSING BOILER FOR HEATING AND DHW PRODUCTION



High DHW performances
Titan Active System®



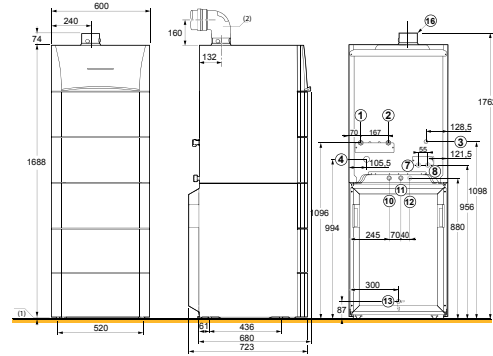
OPTIONS: see following pages
FLUE SYSTEMS: see chapter 14

Modulens G®

AGC.../V 160 SL from 3.4 to 35.9 kW



- Enamelled coil calorifier "Standard Load"
- Calorifier positioned under the boiler to form a uniform "column"
- Equipped with a TAS (Titan Active System®) anode, which does not consume matter
- Draining valve, coupling for a circulation loop boiler/calorifier connecting pipes, DHW sensor, adjustable feet
- Packaging: 3 packages



AGC_F0003D

MODEL

	15/V 160 SL		25/V 160 SL		35/V 160 SL	
Boiler	Package JA2	Ref. 100016313	Package JA3	Ref. 100016314	Package JA4	Ref. 100016315
160 SL calorifier	Package ER223	Ref. 100016428	Package ER223	Ref. 100016428	Package ER223	Ref. 100016428
Boiler/Calorifier connecting pipes + DHW sensor	Package JA8	Ref. 100017391	Package JA8	Ref. 100017391	Package JA8	Ref. 100017391



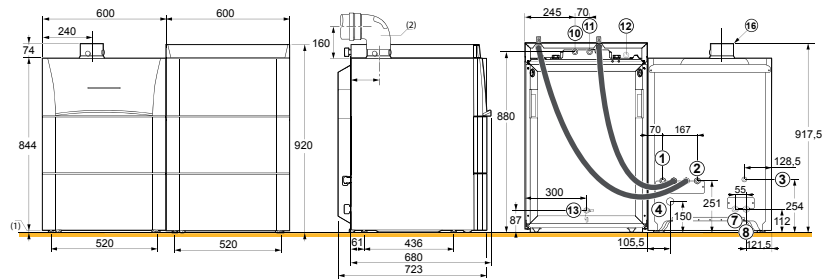
OPTIONS: see following pages
FLUE SYSTEMS: see chapter 14

Modulens G®

AGC.../B 160 SL from 3.4 to 35.9 kW



- Enamelled coil calorifier "Standard Load"
- Calorifier positioned to the right or the left of the boiler, with the same aesthetic as the boiler
- Equipped with a TAS (Titan Active System®) anode, which does not consume matter
- Draining valve, coupling for a circulation loop boiler/calorifier connecting pipes, DHW sensor, adjustable feet
- Packaging: 3 packages



AGC_F0004D

MODEL

	15/B 160 SL		25/B 160 SL		35/B 160 SL	
Boiler	Package JA2	Ref. 100016313	Package JA3	Ref. 100016314	Package JA4	Ref. 100016315
160 SL calorifier	Package ER223	Ref. 100016428	Package ER223	Ref. 100016428	Package ER223	Ref. 100016428
Boiler/Calorifier connecting pipes + DHW sensor	Package ER228	Ref. 100016480	Package ER228	Ref. 100016480	Package ER228	Ref. 100016480

TECHNICAL SPECIFICATIONS DOMESTIC HOT WATER (BOILER SEE PREVIOUS PAGES)

Max. operating temperature DHW: 70°C : Max. operating pressure DHW: 10 bar :

MODEL	AGC	15 / V 160 SL 15 / B 160 SL	25 / V 160 SL 25 / B 160 SL	35 / V 160 SL 35 // B 160 SL
Nominal output at 50/30°C	kW	15.8	25.5	35.9
DHW calorifier capacity	l	155	155	155
Exchanged power	kW	15	28	32
Flow over 10 min at ΔT = 30 K	l/min	235	240	245
Flow per hour at ΔT = 35 K	l/h	370	690	790
Specific rate at ΔT = 30 K (compliance with EN 13203)	l/min	20	24	24.5
Coefficient of heat losses	W/K	1.78	1.78	1.78
Net weight AGC... /V/B	kg	140/143	143/146	143/146

DHW performances at room temperature 20°C. cold water temp. 10°C. primary hot water temp. 80°C. storage temp. 60°C

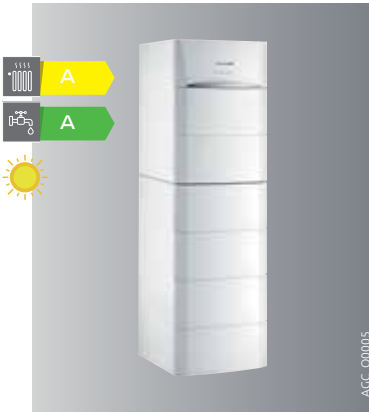
Nota: dimensions and legends: see previous pages

GAS

FLOOR-STANDING GAS CONDENSING BOILER FOR HEATING AND DHW PRODUCTION



Large solar coverage providing until 60% of yearly energy needs Titan Active System®



OPTIONS: see following pages
FLUE SYSTEMS: see chapter 14

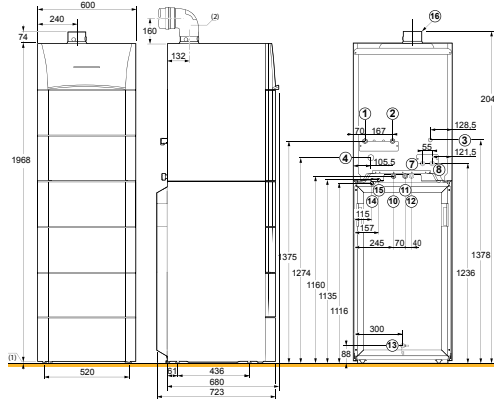
Modulens G®

AGC.../V 220 SHL from 3.4 to 35.9 kW



Enamelled stratification calorifier "High Load" equipped with a plate exchanger combined with a load pump and a coil for connection to a solar system
Calorifier positioned under the boiler to form a uniform "column"

- Equipped with a TAS (Titan Active System®) anode, which does not consume matter
- Also equipped with a complete solar unit: pump, expansion vessel, safety unit, air vent, glycol tank, solar control system
- Draining valve, coupling for a circulation loop boiler/calorifier connecting pipes, DHW sensor, adjustable feet
- Packaging: 4 packages



MODEL

	15/V 220 SHL		25/V 220 SHL		35/V 220 SHL	
Boiler	Package JA2	Ref. 100016313	Package JA3	Ref. 100016314	Package JA4	Ref. 100016315
220 SHL calorifier	Package ER220	Ref. 100016425	Package ER220	Ref. 100016425	Package ER220	Ref. 100016425
Boiler/Calorifier connecting pipes + DHW sensor	Package JA9	Ref. 100017392	Package JA9	Ref. 100017392	Package JA9	Ref. 100017392
Expansion vessel 12 l	Package JA72	Ref. 7605758	Package JA72	Ref. 7605758	Package JA72	Ref. 7605758



OPTIONS: see following pages
FLUE SYSTEMS: see chapter 14

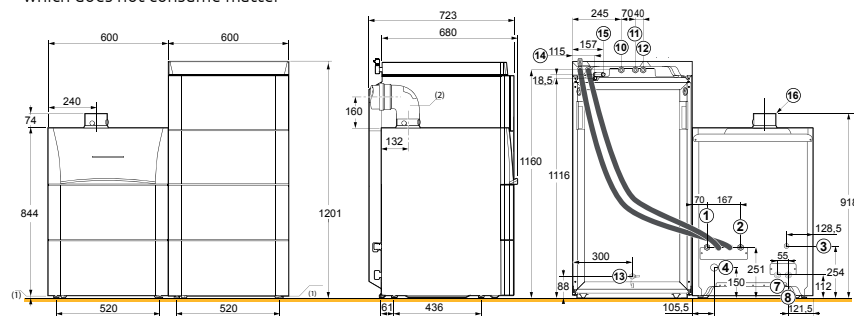
Modulens G®

AGC.../B 220 SHL from 3.4 to 35.9 kW



Enamelled stratification calorifier "High Load" equipped with a plate exchanger combined with a load pump and a coil for connection to a solar system
• Calorifier positioned to the right or the left of the boiler, with the same aesthetic as the boiler
• Equipped with a TAS (Titan Active System®) anode, which does not consume matter

- Also equipped with a complete solar unit: pump, expansion vessel, safety unit, air vent, glycol tank, solar control system
- Draining valve, coupling for a circulation loop boiler/calorifier connecting pipes, DHW sensor, adjustable feet
- Packaging: 4 packages



MODEL

	15/B 220 SHL		25/B 220 SHL		35/B 220 SHL	
Boiler	Package JA2	Ref. 100016313	Package JA3	Ref. 100016314	Package JA4	Ref. 100016315
220 SHL calorifier	Package ER220	Ref. 100016425	Package ER220	Ref. 100016425	Package ER220	Ref. 100016425
Boiler/Calorifier connecting pipes + DHW sensor	Package ER216	Ref. 100017431	Package ER216	Ref. 100017431	Package ER216	Ref. 100017431
Expansion vessel 12 l	Package JA72	Ref. 7605758	Package JA72	Ref. 7605758	Package JA72	Ref. 7605758

TECHNICAL SPECIFICATIONS DOMESTIC HOT WATER (BOILER SEE PREVIOUS PAGES)

Max. operating temperature DHW: 70°C : Max. operating pressure DHW: 10 bar : Max. solar operating pressure: 6 bar

MODEL	AGC	15 /V 220 SHL 15 /B 220 SHL	25 /V 220 SHL 25 /B 220 SHL	35 /V 220 SHL 35 /B 220 SHL
Nominal output at 50/30°C	kW	15.8	25.5	35.9
DHW calorifier capacity	l	220	220	220
Solar volume/Back-up volume	l	135/85	135/85	135/85
Exchanged power	kW	15	28	32
Flow over 10 min at ΔT = 30 K	l/10 min	200	240	260
Flow per hour at ΔT = 35 K	l/h	370	690	790
Specific rate at ΔT = 30 K (compliance with EN 13203)	l/min	20	24	26
Coefficient of heat losses	W/K	2.09	2.09	2.09
Net weight AGC... /V/B	kg	171/174	174/177	174/177

DHW performances at room temperature 20°C, cold water temp. 10°C, primary hot water temp. 80°C, storage temp. 60°C

OPTIONS

FOR MODULENS G® AGC

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

(NOT PROVIDED WITH THE SET)	PACKAGE	REF.
► For AGC.../V 100 HL, V 160 SL and V 220 SHL (column version). <i>These kits are not for AGC.../VL 160 SL</i>		
Connection kit with prefitted water and gas stop cocks, integrated disconnecter and DHW safety valve:		
- Central connection kit	7793357	
- Right connection kit	7793359	
- Left connection kit	7793358	
► For AGC... (heating only) and AGC.../B 160 SL and B 220 SHL (models with juxtaposed calorifier)		
Connection kit with prefitted water and gas stop cocks	7793360	

OTHER ACCESSORIES

	PACKAGE	REF.
Decoupling cylinder 60/60-1"	GV45	100019346
Condensates neutralisation system (with pump)	DU13	83877009
Condensates neutralisation system DN 2.0 (without pump)	SA3	7613609
Condensates neutralisation system DN 1 (until 75 kW)	SA1	7613605
Wall bracket for neutralisation station DN 1	SA2	7613606
Neutralisation granule refill 10 kg *	-	94225601
Neutralisation granule refill 25 kg	SA7	7313613
Flue gas thermostat	JA38	100018163
18 l expansion vessel (replaces the 12 l expansion vessel delivered with AGC/220 SHL boiler)	JA74	7607001
Propane conversion kit AGC 15	JA39	100018164
Propane conversion kit AGC 25	JA40	100018165
Propane conversion kit AGC 35	JA41	100018166
Horizontal terminal Ø60/100mm	HR48	100013756
Reducing elbow Ø60/100mm	JA43	100018253
Vertical terminal black Ø80/125mm	DY844	100002733
Vertical terminal red Ø80/125mm	DY843	100002732
Adapter Ø80/125mm	HR38	5100465
Bi-flow adapter 2 x Ø80mm	DY868	100005825
Connecting kit Ø80/125mm on a collective flue system	DY887	100014000

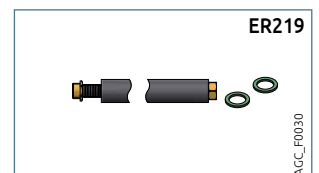
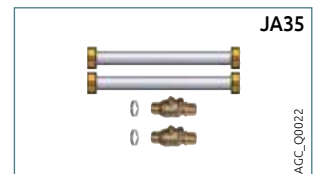
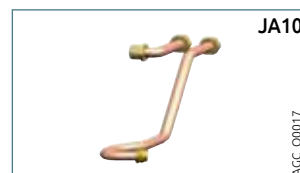
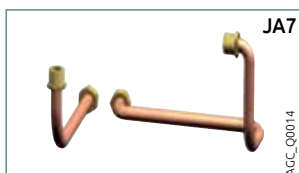
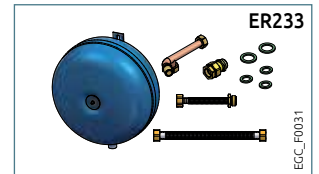
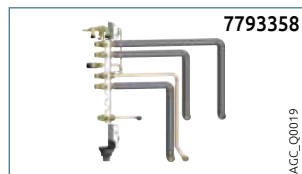
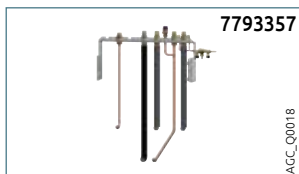
* to order at the spare parts department

HYDRAULIC MODULES

	PACKAGE	REF.
Internal 3-way valve (with engine and sensor for mixing valve and modulating pump energy efficiency index EEI < 0.23)	JA83	7602811
Connecting pipes between "3 way valve" kit (JA83) and the hydraulic connection kit JA34, JA11, JA12 or JA13	JA35	100017827
Adaptation kit for external 3-way valve	JA7	100017390
Hydraulic module with pump with energy efficiency index EEI < 0.23 for 1 circuit with valve	EA144	100020168
Insulated collector for 2 or 3 modules	EA140	100020164
Set of consoles for collector	EA141	100020165
Console for 1 module	EA142	100020166
G in R connection kit (1" and 3/4")	BH84	89557009

DHW PRODUCTION

	PACKAGE	REF.
• With juxtaposed or located under the boiler calorifier		see previous pages
• With independent calorifier combined calorifier		see chapter 08
• With independent calorifier solar calorifier		see chapter 10
DHW sensor	AD212	100000030
Internal connecting pipes for the connection of an independent calorifier	JA10	100017393
Magnesium anode kit	EA103	100000492
Kit DHW expansion vessel (only for AGC/V 100 HL and AGC/V 160 SL)	ER233	100018204
Recirculation kit for calorifier 100 HL	ER218	100017432
Recirculation kit for calorifier 160 SL and 220 SHL	ER219	100017433



FLAT COLLECTORS RECOMMENDED WITH BOILER AGC.../V 220 SHL AND B 220 SHL



NUMBER OF PEOPLE LIVING IN THE HOME	from to			from to			
	1 x DIETRISOL PRO D230 (2.5 m²)						
	Built into roof			Built into roof			
Flat solar collectors or solar collector field («roof» packs) recommended (1):	with mechanical tiles	with canal tiles	with universal bracket for mechanical tiles	with mechanical tiles	with canal tiles	with universal bracket for mechanical tiles	
	package	ER620	ER624	ER430	ER621	ER625	ER432
	Ref.	7615855	7615864	100019693	7615859	7615866	100019695
"High performances" heat transfer fluid (20 l, -30°C)	package	ER316	ER316	ER316	ER316	ER316	ER316
	Ref.	100017611	100017611	100017611	100017611	100017611	100017611

(1) See chapter 10 for more details.

OPTIONS AND EXAMPLES OF INSTALLATION

FOR MODULENS G® AGC

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Control panel DIEMATIC iSystem (1)(2)	Circuit type	Circuit type					
		DHW	direct	valve	direct + valve	2 x valve	direct + 2 x with valve
AGC 15, 25, 35		1 x AD212	as standard	1 x AD199 *	1 x AD199 *	1 x AD199 + 1 x AD249	1 x AD199 + 1 x AD249
AGC.../V... or B...		as standard	as standard	1 x AD199 *	1 x AD199 *	1 x AD199 + 1 x AD249	1 x AD199 + 1 x AD249

(1) Each of the circuits "heating" can be completed in choice by a remote control AD285, AD284 + AD252 or FM52.

(2) Cascade up to 10 boilers possible.

* DHW sensor included in the package JA83 (Internal 3-way valve kit)

CONTROL UNITS

	PACKAGE	REF.		PACKAGE	REF.
CDI D. iSystem remote control	AD285	100018924	PCB + sensor for mixing valve	AD249	100013304
Radio remote control CDR D. iSystem module (without radio transmitter/receiver)	AD284	100018923	Sensor for mixing valve	AD199	88017017
Radio outside temperature sensor	AD251	100013306	DIEMATIC BUS connection cable (12 m)	AD134	88017851
Boiler radio module (transmitter/receiver)	AD252	100013307	DHW sensor	AD212	100000030
Simplified remote control + room sensor	FM52	85757747	Sensor for storage tank	AD250	100013305
			DIEMATIC VM iSystem control unit	AD281	100018254

Modulens G® AGC 25/V 160 SL

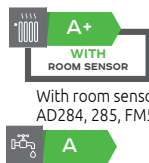
- 1 direct circuit

DESCRIPTION

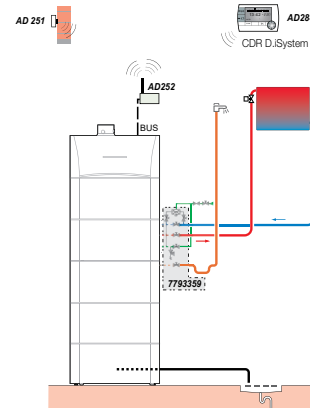
	PACKAGE	REF.
AGC 25 boiler	JA3	100016314
Kit DHW expansion vessel	ER233	100018204
160 SL calorifier	ER223	100016428
Connection kit Boiler/Calorifier + DHW-sensor	JA8	100017391
Right connection kit		7793359

Options

- Radio remote control CDR D. iSystem module (without radio transmitter/receiver)	AD284	100018923
- Radio outside temperature sensor	AD251	100013306
- Boiler radio module (transmitter/receiver)	AD252	100013307



With room sensor
AD284, 285, FM52



AGC_F0120C

Modulens G® AGC.../V220 SHL

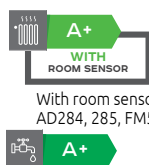
- 1 direct circuit
- 1 circuit with mixing valve
- 1 solar circuit

DESCRIPTION

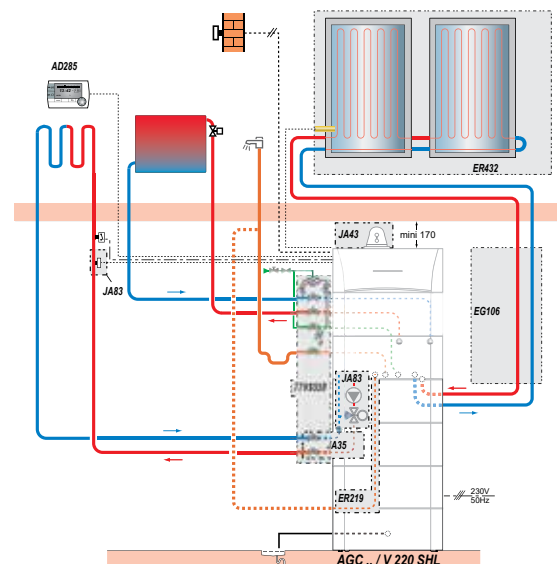
	PACKAGE	REF.
AGC 35 boiler	JA4	100016315
220 SHL calorifier	ER220	100016425
Boiler/Calorifier connecting pipes	JA9	100017392
Expansion vessel	JA72	7605758
Internal 3-way valve kit (with engine)	JA83	7602811
Roof pack 4 m² collectors 2 x DIETRISOL PRO D230 ST	ER432	100019695
"High performances" heat transfer fluid	EG316	100017611
Recirculation kit	ER219	100017433

Options

- Reducing elbow Ø60/100mm	JA43	100018253
- Left connection kit		7793358
- Connecting pipes between "3 way valve" kit (JA83) and the hydraulic connection kit	JA35	100017827
- CDI D. iSystem remote control	AD285	100018924
- Duo Tube Cu 15 x 10m (with bicone connectors)	EG106	89807000



With room sensor
AD284, 285, FM52



AGC_F0121K

TERTIARY COLLECTIVE SELECTION GUIDE

FOR
TERTIARY COLLECTIVE
INSTALLATIONS.....

Elidens C140



Elidens c140



C...



C 230 EVO




C 340



C 640



Control panel		Diematic Evolution	Diematic Evolution	Diematic Evolution	Diematic Evolution
Nominal output at 80/60°C (heating)	kW	9 to 104	18 to 200	51 to 601	69 to 1202
Nominal output at 50/30°C (heating)	kW	9 to 110	18 to 217	56 to 651	74 to 1303
Energy efficiency class (heating)		Up to 	-	-	-
Modulation rate		18 to 100 %	18 to 100 %	20 to 100 %	10 to 100 %
Operating possible with:					
• natural gas		X	X	X	X
• propane		X	X		
Low-loss header set		X	-	X	X
Plate heat exchanger set		X	-	X	X
Cascade set		X	-	X	X
Steering 0-10 V		X	X	X	X
ModBus communication RTU RS485		X	X	X	X
Pages		117	123	126	127
Flue systems		See chapter flue systems	See chapter flue systems	See chapter flue systems	
Options and examples of installation		119	124	128	

GAS

FLOOR-STANDING GAS CONDENSING BOILERS, FOR HEATING

PROJECT

Elidens C140

C140-45/65/90/115 from 8.9 to 110 kW

point

Floor-standing gas condensing solution for small collector or tertiary applications



up to
A



- Equipped to run on natural gas
- Gas supply pressure: 20/25 mbar
- Option to connect with a horizontal forced flue, vertical forced flue, chimney, or in bi-flow
- Low pollutant emissions
- One-piece aluminium/silicon heat exchanger
- Stainless steel pre-mixed gas burner with surface made from woven metal fibres
- Modulating range from 18 to 100 % of the output
- Fan with silencer on the air intake
- Control panels DIEMATIC Evolution with electronic control system, programmable based on the outdoor temperature

- Hydraulic connection kits (option)
- Packaging: 2 packages

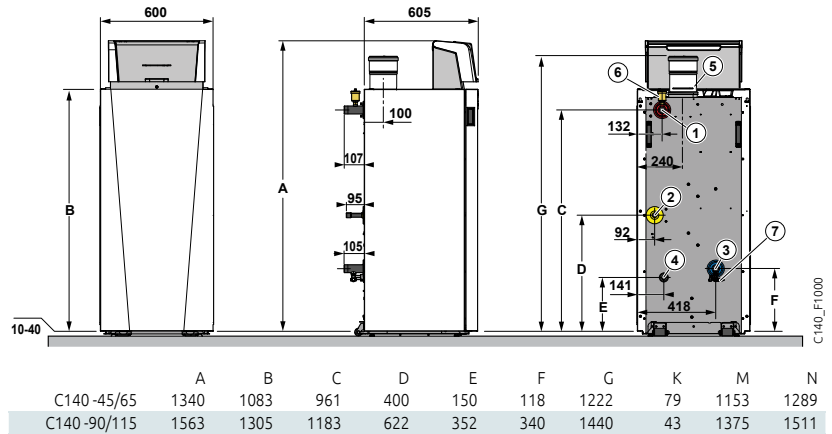
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OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

- Heating flow: - C140-...: R 1" 1/4
- C140-...EP: G 1" 1/4
- C140-...SH: G 2"
- Gas inlet G 3/4"
- Heating return: - C140-...: R 1" 1/4
- C140-...EP: G 1" 1/4
- C140-...SH: G 2"
- Condensates drain (Ø 22 mm inlet)
- Evacuation of combustion products and air inlet pipe (measuring sleeve delivered) : - C140-45: Ø 80/125 mm
- C140-65/90/115: Ø 100/150 mm
- Automatic air vent
- Drain tap connection for pipe

R: Threading
G: External cylindrical threading water tightness by flat gasket.



TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C
Max. operating pressure: 4 bar

Protection index: IP X1B
NOx classification: 6

Classification: B₃₃, B₂₃, B_{23P}, C_{13(x)}, C_{33(x)}, C_{43(x)}, C_{53(x)}, C_{63(x)}, C_{83(x)}, C_{93(x)}

Power supply: 230 V/50 Hz

MODEL

	C140-	45	65	90	115	
Energy efficiency class (heating)		A	A	-	-	
Nominal output P _n (50/30°C)	kW	41	62	84	104	
Efficiency at...%	- 100% average temp. 70°C - 100% return temp. 30°C - 30% return temp. 30°C	%	99.1	99.2	97.9	97.1
output and...°C		%	102.9	104.6	104.1	103.4
water temp.		%	110.6	110.4	108.1	108.0
Seasonal space heating energy efficiency (without contribution of regulation)	%	95	94	-	-	
Seasonal space heating energy efficiency (with outdoor sensor)	%	97	96	-	-	
Useful efficiency at 100 % of rated heat output	%	-	-	88.2	87.5	
Useful efficiency at 30 % of rated heat output	%	-	-	97.4	96.5	
Water flow at P _n and ΔT = 20 K	m ³ /h	1.75	2.65	3.62	4.47	
Stand-by losses at ΔT = 30 K	W	105	114	119	119	
Auxiliary electrical power at P _n (except circul. pump)	W	68	92	124	180	
Min.-max. useful output at 50/30°C	kW	9-42.4	13.5-65.0	15.8-89.5	21.2-109.7	
Min.-max. useful output at 80/60°C	kW	8-40.8	12-61.5	14.1-84.2	18.9-103.9	
Min.-max. flue gas mass flow rate	kg/h	14.0-69.1	20.8-/104.0	28.1-137.9	36.0-177.8	
Flue gas pressure available	Pa	150	100	160	220	
Water content	l	5.2	7.1	10.2	10.1	
Minimum flow rate	l/h	195	290	340	455	
Gas flow (max.)	- natural gas H - propane	m ³ /h	4.4	6.6	9.10	11.7
(15°C-1013 mbar)		m ³ /h	1.7	2.5	3.5	4.5
Net weight	kg	87	98	109	109	

MODEL

	C140-	45	65	90	115
C140- DIEMATIC Evolution	Ref.	7709265	7709263	7709261	7709159

GAS

FLOOR-STANDING GAS CONDENSING BOILERS, FOR HEATING

Elidens C140

C140-45/65/90/115 SH from 8.9 to 110 kW



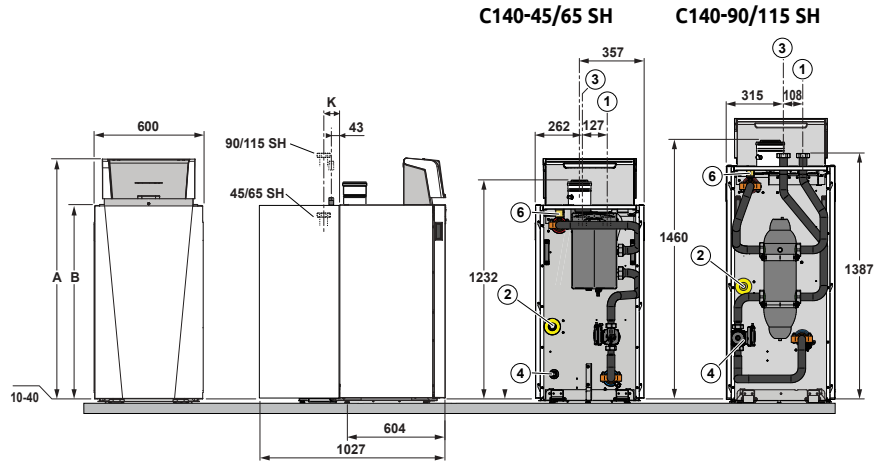
Fully-equipped compact versions
Easy connection
Hydraulic low-loss header
Degassing system+magnetic rod



C140-45/65/90/115 SH boiler equipped with a pre-dimensioned hydraulic plate heat exchanger kit comprising:

- A modulating pump actuated via PWM signal
- An insulated low-loss header with magnetic rod and aerator

- Connection pipes to the boiler with a non-return valve and a safety valve. Secondary side pipes leading to the top of the boiler for easy connection
- Packaging: 3 packages



MODEL

C140 SH DIEMATIC Evolution

C140-	45 SH	65 SH	90 SH	115 SH
Ref.	7721423	Ref. 7721424	Ref. 7721425	Ref. 7721426



Elidens C140

C140-45/65/90/115 EP from 8.9 to 110 kW



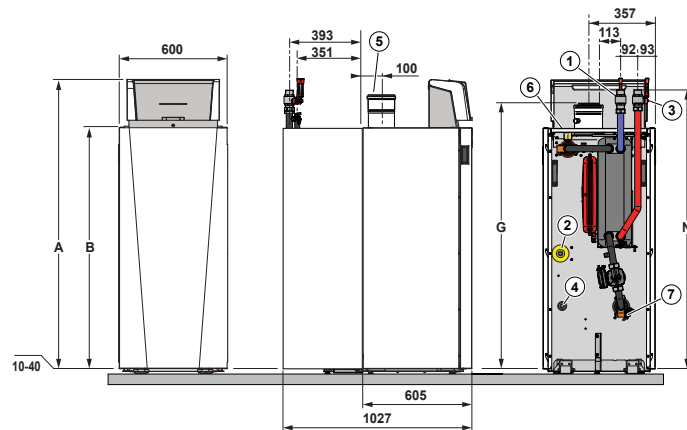
Fully-equipped compact versions
Easy hydraulic connection
Protects against sludge+
16-bar operating pressure



C140-45/65/90/115 EP boiler equipped with a pre-dimensioned hydraulic plate heat exchanger kit comprising:

- A modulating pump actuated via PWM signal, a non-return valve
- An automatic degassing device (primary side)
- An expansion vessel

- An insulated plate heat exchanger
- Connection pipes to the boiler with a non-return Valve and a 4-bar safety valve (primary side). Secondary side pipes with isolation valves leading to the top for easy connection.
- Packaging: 3 packages



MODEL

C140 EP DIEMATIC Evolution

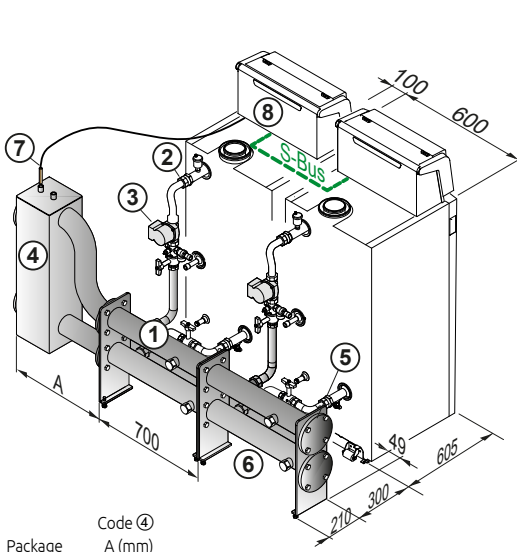
C140-	45 EP	65 EP	90 EP	115 EP
Ref.	7721427	Ref. 7721428	Ref. 7721429	Ref. 7721430

OPTIONS

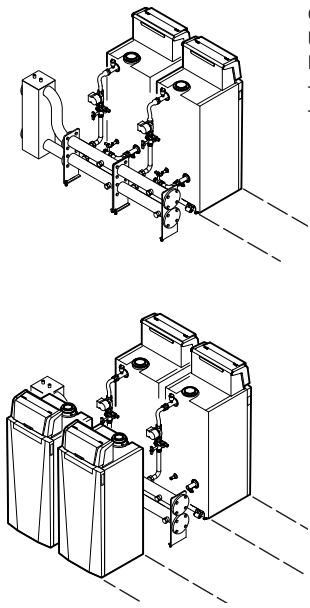
FOR ELIDENS C140

CASCADE SYSTEMS WITH 2 TO 4 BOILERS, TO BE PUT TOGETHER ACCORDING TO THE CHOSEN COMBINATION ...

MAIN DIMENSIONS (mm and inches)



Package	Code ④ A (mm)
HC222	279
HC200	619



C140-45 to 115 cascade systems can be put together by the installer based on the components listed below.
It is possible to form cascades:
- Of 2 to 4 boilers mounted back to back.
- The boilers must be ordered separately.

C140_F0010

LIST OF PACKAGES TO ORDER ACCORDING TO THE COMBINATION DESIRED

CODE	DESCRIPTION	PACKAGE	REF.
①	Collector DN 65 (instal. > 460 kW)	HE35	100011703
②	Boiler connection kit: • C140-45 and 65 • C140-90 and 115	HE32 HE33	100011490 100011491
③	Heating pump UPM 25-105 PWM	JJ416	7723290
④	Decoupling cylinder: • DN 65 (installation > 350 kW) • DN 65 (installation > 350, ≤ 460 kW)	HC222 HC200	114311 111712
⑤	Blind flanges for water collector (set of 2): • DN 65 • DN 100	HC198 HC199	111701 111703
⑥	Set of 2 plugs (in line mounting)	HC195	111708
⑦	Cascade flow sensor + sensor tube: • for decoupling cylinder HC222 • for decoupling cylinder HC200	HC223 HC206	100013027 100008701
⑧	Inter-boiler S-BUS connection cable, length 12 m	AD309	7663561

HYDRAULIC OPTIONS	PACKAGE	REF.
Set of elbows DN 65	HC209	111788
Set of elbows DN 100	HC210	111790
Insulation for DN 65 and DN 100 elbows	HC216	111167
Set of counter flanges to be welded DN 65	HC217	112632
Set of counter flanges to be welded DN 100	HC218	112633
HC222 decoupling cylinder insulation	HC224	115269
HC201 decoupling cylinder insulation	HC215	111067
Adjustable foot for collector	HC219	111807

OTHERS OPTIONS	PACKAGE	REF.
Gas filter DN 50	HC255	S101655
Gas filter DN 65	HC256	S101656
Set of 2 weld-on flanges DN 50 for gas filter	HC261	S103345
Flue gas adapter Ø 80 to 100 mm	DY768	84887768



OPTIONS

FOR ELIDENS C140

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

	PACKAGE	REF.
Hydraulic connection kit 1" 1/4	HC139	100002310
Right gas valve 3/4"	HC158	100004641
Heating pump UPM 25-105 PWM	JJ416	7723290
Condensates neutralization system (without pump):		
• Boilers < 75 kW	SA1	7613605
• Boilers < from 75 to 450 kW	SA3	7613609
• Boilers from 450 to 1300 kW	-	7622256
Wall support for neutralization system DN1	SA2	7613606
Condensates neutralization system (with lift pump):		
• Boilers < 120 kW	DU13	83877009
• Boilers < from 120 to 300 kW	SA4	7613610
• Boilers (cascades) from 300 to 1300 kW	DU15	83877011
Neutralization granules (10 kg)*	-	94225601
Neutralization granules (25 kg)	SA7	7613613
Conversion kit propane for C140-90	-	7606993
Decoupling cylinder 60/60 - 1"	GV45	100019346
Decoupling cylinder 80/60 - 1" 1/4	GV46	100019347
Decoupling cylinder 120/80-2"	GV47	100019348
Elbow 87° Ø 100/150 mm	DY930	7715416
Inspection Elbow 87° Ø 100/150 mm	DY931	7715445
Adapter bi-flow DN 100-150 on 2 x 100 mm	DY934	7736230
Adapter bi-flow DN 80-125 on 2 x 80 mm	DY933	7736229

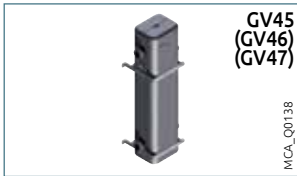
* to be ordered at the spare parts department

DHW PRODUCTION

	PACKAGE	REF.
• with independent calorifier		see chapter 08
• with solar calorifier		see chapter 10
Connecting kit C140/calorifier	EA121	100007827
DHW sensor	AD212	100000030

HYDRAULIC KIT

	PACKAGE	REF.
Decoupling set with plate exchanger:		
• for C140- 45/65	JJ407	7720938
• for C140- 90/115	JJ408	7720939
Decoupling set with low-loss header:		
• for C140- 45/65	JJ409	7709269
• for C140- 90/115	JJ410	7709270



OPTIONS

FOR ELIDENS C140

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONTROL PANEL TYPE AND THE CONNECTED CIRCUITS

		Boiler self-standing or boiler 1 of a cascade						Boiler 2 to 8 of a cascade by additional boiler: (2)		
Circuit type		DHW	direct	valve	2 x valve	direct + 2 x valve	3 x valve	valve	2 x valve	3 x valve
			or	or						
		2 x direct		direct + 1 valve						
C140 with control panel		1 x AD212	as standard (1)	1 x AD199	2 x AD199	1 x AD199 1 x AD249	2 x AD199 1 x AD249	1 x AD199	2 x AD199	2 x AD199 + 1 x AD249

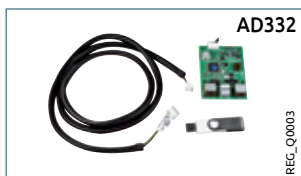
(1) + Package FM46 (outside sensor) to control the boiler alone depending on the outside temperature..

(2) According to the number of heating circuits to be connected, it will be necessary to insert 1 or more C140...Evolution secondary boilers in the cascade, the other boilers of the cascade being fitted with the InControl 2 control panel.

CONTROL UNITS OPTIONS

	PACKAGE	REF.		PACKAGE	REF.
Room thermostat:					
• Non-programmable (wire)	AD140	88017859	S-BUS cable:		
• Programmable (wired with battery)	AD337	7768817	• 1.5 m with plug	AD308	7663618
• Programmable (wireless)	AD338	7768818	• 12 m with plug	AD309	7663561
Connected room thermostat:					
• SMART TC°, R-BUS (wire)	AD324	7691375	• 20 m with plug	AD310	7663619
• SMART TC° RF (wireless)	AD341	7691377	S-BUS plug	AD321	7688305
• SMART TC° RF (wireless) for 2 nd circuit	AD342	7765144	Control unit VM DIEMATIC Evolution, wall-mounted	AD315	7676561
Sensor:					
• Outside sensor	FM46	85757741	Communication gateway GTW08 L-BUS-ModBus	AD332	7721982
• Sensor for mixing valve (length 2.5m)	AD199	88017017	Communication gateway GTW21 L-Bus-BACnet	-	7756023
• Sensor for storage tank (length 5m)	AD250	100013305			
• External sensor (radio) *	AD346	7776874			
PCB + sensor for 1 mixing valve (length 2.5m)	AD249	100013304			
Domestic hot water sensor (length 5m)	AD212	100000030			

* Only with AD341 package



EXAMPLES OF INSTALLATION

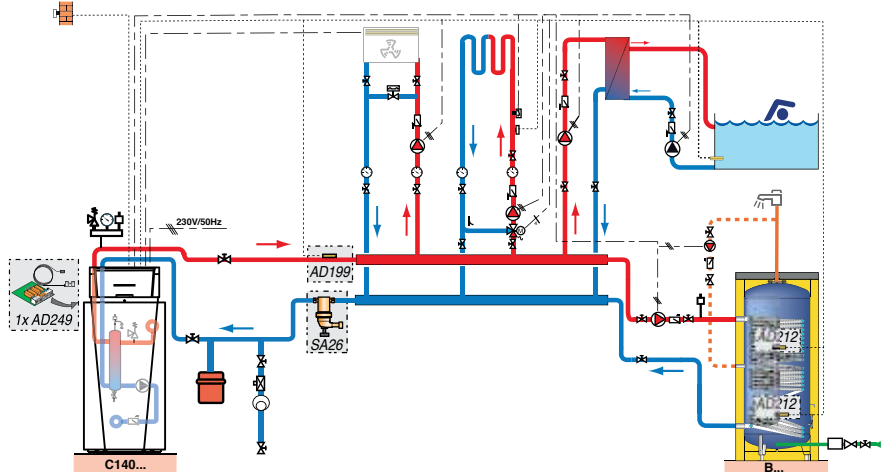
FOR ELIDENS C140

Elidens C140

C140-45 SH DIEMATIC Evolution



- 1 circuit with fan coil (without mixing valve)
- 1 circuit with mixing valve
- 1 DHW calorifier
- 1 swimming pool circuit



DESCRIPTION

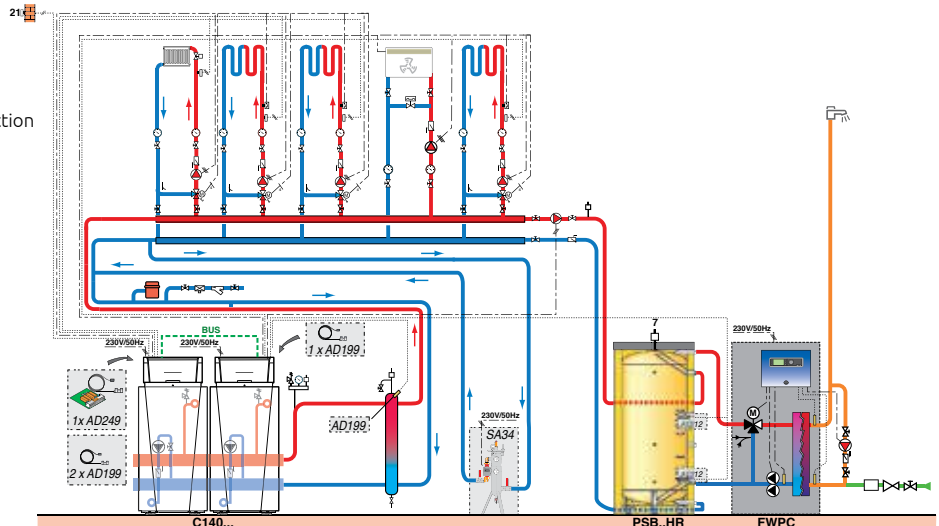
	PACKAGE	REF.
C140-45 SH DIEMATIC Evolution boiler	-	7721423
PCB + sensor for mixing valve	AD249	100013304
Sensor for mixing valve	AD199	88017017
2 x DHW sensor	2 x AD212	100000030
Independent calorifier BPB 501	EC795	7682313
Options		
Brass sludge separator Rp 2"	SA26	7650378

Elidens C140

Cascade with
2 x C140-45 DIEMATIC Evolution



- 4 circuits with mixing valve
- 1 circuit with fan coil
- 1 circuit with instant DHW production



DESCRIPTION

	PACKAGE	REF.
2 x C140-45 DIEMATIC Evolution boiler	-	7709265
4 x sensor for mixing valve	4 x AD199	88017017
PCB + sensor for mixing valve	AD249	100013304
2 x DHW sensor	2 x AD212	100000030
PSB 1000 tank	AJ54	7650456
Rigid casing HR for PSB 1000 tank	AJ89	7650491
Instant DHW production FWPC 3013-100	EC768	7661869
Options		
Stainless steel clarifier unit DN 32	SA34	7651698

PROJECT



NEW

C 230 EVO - ..

from 18 to 217 kW



Very compact
with simplicity of use



- Floor-standing gas condensing
- Factory setting on **natural gas** or on **propane** with conversion kit (option)
- Annual efficiency up to 109%
- **Low pollutant emissions:**
NOx < 62 mg/kWh, CO < 19 mg/kWh
- Dimensions on the ground reduced (0.54 m²)
- **Boiler fitted and tested in the factory**
- Heat exchanger in cast aluminium/silicium sections.
- Burner with premixing modulation from 18 to 100%.

- DIEMATIC Evolution control system with programmable electronic control system based on the outside temperature; can also be used in cascade of up 8 boilers
- Option for connection with horizontal or vertical air/flue gas vent (homologations C_{13x} or C₃₃) or to a chimney (B₂₃ and B_{23P})
- **Packaging:** 1 package.

N° CE 0085BS0132

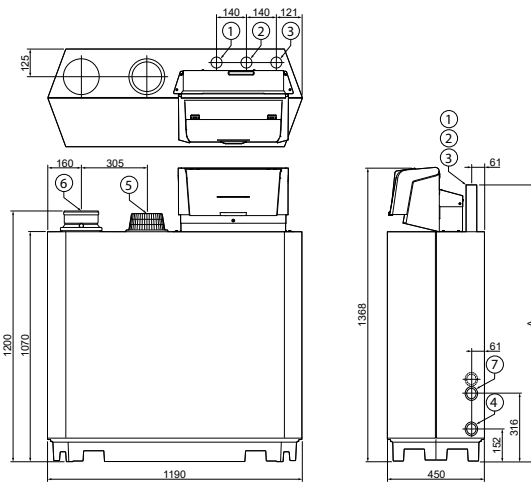
OPTIONS: see next page

MAIN DIMENSIONS (mm and inches)

- ① Heating flow
 - ② Heating return
 - ③ Gas inlet R 1" 1/4
 - ④ Filling and drain tap / Connection for second return R 1" 1/4
 - ⑤ Condensate drain, siphon provided, for PVC pipe ext. Ø 32mm
 - ⑥ Flue gas nozzle Ø 150mm
 - ⑦ Combustive air inlet
- R: Threading

	A	①	②
C 230 EVO-85	1309	R 1" 1/4	R 1" 1/4
C 230 EVO-130	1309	R 1" 1/4	R 1" 1/4
C 230 EVO-170	1309	R 1" 1/4	R 1" 1/4
C 230 EVO-210	1324	R 1" 1/2 (1)	R 1" 1/2 (1)

(1) Reduction 1" 1/2 - 1" 1/4 delivered



C230_EVO_F0110

TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C
Safety thermostat: 110°C

Max. operating pressure: 6 bar
Min. operating pressure: 0.8 bar

Classification:
B₂₃, B_{23P}, C₁₃, C₃₃, C₄₃, C₅₃, C₆₃, C₈₃

NOx classification: 6
Protection index: IP 21

MODEL

	C 230 EVO- ...	85	130	170	210	
Nominal output at 50/30°C Pn (natural gas H)	kW	93	129	179	217	
Efficiency at...%	- 100 % Pn at average temp. 70°C	%	97.4	97.5	97.5	97.6
		output and...°C	%	104.3	104.7	105.2
water temp.	- 100 % Pn at return temp. 30°C	%	107.9	108.1	108.3	108.4
	- 30 % Pn at return temp. 30°C	%	87.7	87.8	87.8	87.8
Useful efficiency at 100 % of rated heat output (1)	%	97.7	97.5	97.3	97.6	
Useful efficiency at 30 % of rated heat output (1)	%	97.7	97.5	97.3	97.6	
Water flow at ΔT = 20 K	m ³ /h	3.73	5.16	7.14	8.17	
Stand-by losses at ΔT = 30 K	W	230	257	276	288	
Auxiliary electrical power	- at full load (elmax)	W	103	167	196	306
	- Auxiliary electricity consumption at partial load (elmin)	W	26	28	46	48
Min nominal output at 50/30°C	kW	18	24	33	44	
Min.-max. nominal output at 80/60°C	kW	16-87	22-120	29-166	39-200	
Water resistance at ΔT = 20 K at 80/60°C	mbar	165	135	170	180	
Gas flow	- natural gas H	m ³ /h	1.8-9.4	2.4-13.0	3.3-18.0	4.3-21.7
	- propane	kg/h	1.94-6.91	1.94-9.56	3.42-13.21	3.19-15.93
Flue gas mass flow rate	kg/h	27.2-149.7	36.7-206.9	49.5-286.0	65.5-344.9	
Max. flue gas temperature at 40/30°C	°C	43	43	43	43	
Flue gas pressure available	Pa	130	130	130	130	
Water content	l	12	16	20	24	
Minimum flow rate (operation > 75°C)	m ³ /h	1.12	1.49	2.14	2.59	
Boiler foot print	m ²	0.54	0.54	0.54	0.54	
Net weight	kg	115	135	165	188	

(1) According to commission regulation n°813/2013 from 2/08/13

MODEL

	C 230 EVO- ...	85	130	170	210
C 230 EVO	Ref.	7823369	7821715	7821499	7826849

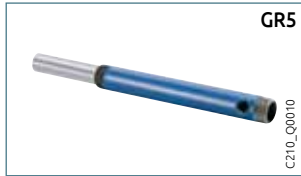
OPTIONS

FOR C 230 EVO

ALL OPTIONS EXCEPT CONTROL UNIT OPTIONS

ACCESSORIES

	PACKAGE	REF.
2nd return nozzle	GR5	100002442
Sensor tube for outlet sensor	GR6	100002443
Grass tightness control gas valve unit (C 230 EVO-170 and C 230 EVO-210)	GV26	100011035
Air intake filter	GR8	100002445
Min gas pressure switch:		
• C 230 EVO-85 and C 230 EVO-130	GV22	100011031
• C 230 EVO-170 and C 230 EVO-210	GV25	100011034
Decoupling cylinder for C 230 EVO-85	GV46	100019347
Decoupling cylinder for C 230 EVO-130 to C 230 EVO-210	GV47	100019348



ACCESSORIES

	PACKAGE	REF.
Condensates neutralization system (without pump):		
• Boilers < 450 kW	SA3	7613609
• Boilers from 450 to 1300 kW	-	7622256
Condensates neutralization system (with lift pump):		
• Boilers < 120 kW	DU13	83877009
• Boilers from 120 to 300 kW	SA4	7613610
• Boilers (cascades) from 300 to 1300 kW	DU15	83877011
Neutralization granules (10 kg)*	-	94225601
Neutralization granules (25 kg)*	SA7	7613613
Propane conversion kit for C 230 EVO-85 and C 230 EVO-130	GV23	100011032
Propane conversion kit for C 230 EVO-170 and C 230 EVO-210	GV27	100011036
• Solar calorifier		see chapter 10
• Independent calorifier		see chapter 8 and 9

* To be ordered at the spare parts department

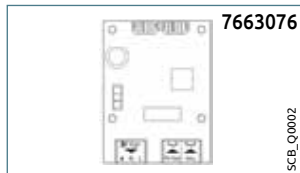
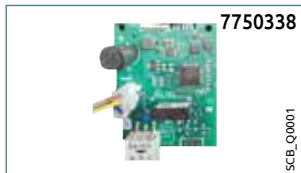
CHOICE OF OPTIONS ACCORDING TO THE CONTROL PANEL TYPE AND THE CONNECTED CIRCUITS

Circuit type (1)	Circuit diagrams					
	a.c.s.	direct o	valve o	2 x valve	direct + 2 x valve	3 x valve
C 230 EVO with control panel (2)	1 x AD212	as standard	1 x AD199	2 x AD199	1 x AD199 1 x AD249	2 x AD199 1 x AD249

(1) Each heating circuit can be supplemented by a remote control. (2) Cascade possibility. Each boiler in the cascade manages up to 3 valve circuits (2 x AD199 + 1 x AD249).

CONTROL UNITS

	PACKAGE	REF.		PACKAGE	REF.
Room thermostat			Sensor:		
• Non-programmable room thermostat (wire)	AD140	88017859	• Sensor for mixing valve	AD199	88017017
• Programmable (wired with battery)	AD337	7768817	• DHW sensor	AD212	100000030
Room sensor:			• Sensor for storage tank or "Cascade outlet sensor"	AD250	100013305
• SMART TC [®] , R-BUS (wire)	AD324	7691375	PCB:		
• SMART TC [®] RF (wireless)	AD341	7691377	• PCB + sensor for mixing valve	AD249	100013304
• SMART TC [®] RF (wireless) for 2nd circuit	AD342	7765144	• SCB-09 PCB for connection of an external gas valve	-	7663076
• External sensor (radio)*	AD346	7776874	• SCB-13 PCB that can control a hydraulic isolation valve for cascade	-	7750338
* Only with AD341 package			S-BUS cable (with plug):		
			• 1.5 m	AD308	7663618
			• 12 m	AD309	7663561
			• 20 m	AD310	7663619
			S-BUS plug	AD321	7688305
			Control unit VM DIEMATIC Evolution, wall-mounted	AD315	7676561
			Communication gateway GTW08 L-BUS-ModBus	AD332	7721982
			Communication gateway GTW21 L-BUS- BACnet	-	7756023

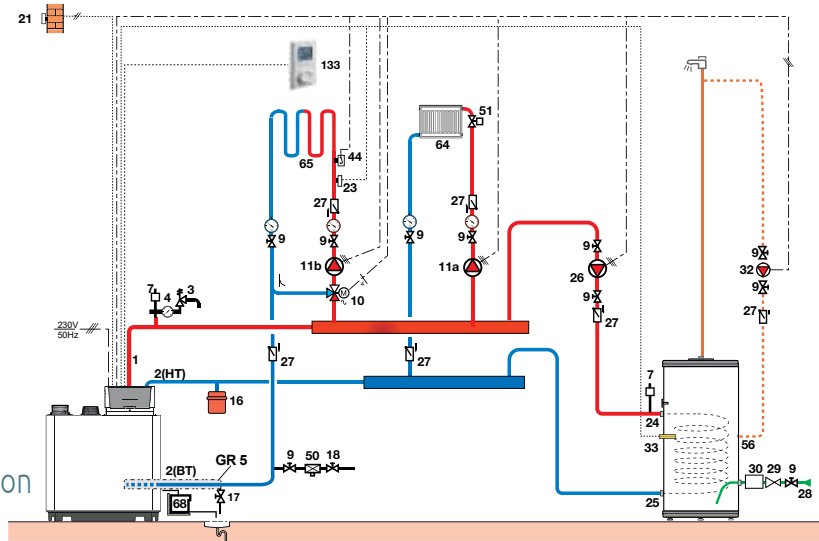


EXAMPLE OF INSTALLATION

FOR C 230 EVO

C 230 EVO

C 230 EVO- 85 DIEMATIC Evolution



DESCRIPTION

	package	REF.
Boiler C 230 EVO-85		7823369
Outlet sensor downstream of the valve	AD199	88017017
2 nd return nozzle	GR5	100002442
DHW calorifier BPB 501	EC795	7682313
DHW Sensor	AD212	100000030
Option		
Programmable room thermostat (wired with battery)	AD337	7768817

C230_EVO_F0109

GAS

FLOOR-STANDING GAS CONDENSING BOILERS FOR HEATING

PROJECT



C 340-...

from 56 to 651 kW



Gas condensing generator compact and modular



- Delivered fully assembled and tested in the factory
- Equipped for natural gas operation, gas supply pressure: 20/25 mbar or 300 mbar with pressure regulator (optional)
- Low pollutant emissions:**
NO_x < 56 mg/kWh, CO < 20 mg/kWh
- Reduced noise level
- Exchanger in cast aluminium/silicium components with self-cleaning properties and with inspection trap
- Total pre-mix burner, modulating from 20 to 100% in output for perfect adjustment of boiler output to the

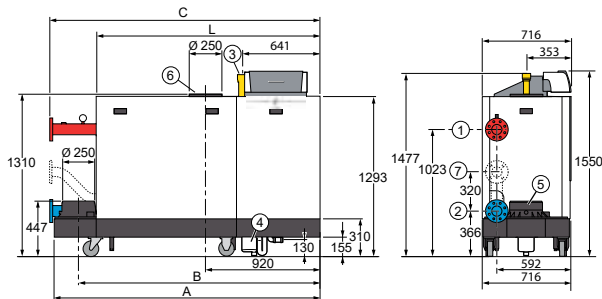
- actual needs of the installation and optimal combustion quality over the entire output range thanks to the constant air/gas ratio by venturi system
- Electronic ignition, ionisation sensor
- DIEMATIC Evolution control system**
- Provided with casters + guide rail for easy installation into the boiler room
- Available in 2 versions: right or left according to the orientation of hydraulic connection: see diagrams below
- Possibility of separation of returns on request
- Packaging:** 1 package

N° CE 0063CL3613

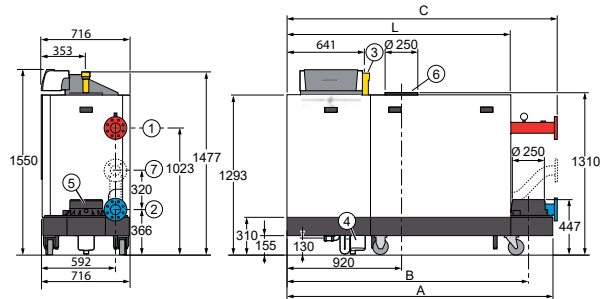
OPTIONS: see following pages / **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

LEFT VERSION



RIGHT VERSION



- Heating flow, flange DN 80 (DIN 2576)
 - Heating return, flange DN 80 (DIN 2576)
 - Gas inlet G 2" (tapped)
 - Condensates run-off, siphon provided, for PVC pipe int. Ø 32mm
 - Flue gas nozzle Ø 250mm
 - Combustive air inlet Ø 250mm
 - Second return nozzle, flange DN 65 (DIN 2576) (optional)
- G: External cylindrical threading water tightness by flat gasket.

	C 340-280	C 340-350	C 340-430	C 340-500	C 340-570	C 340-650
A	1833	1833	1833	2142	2142	2142
B	1635	1635	1635	1944	1944	1944
C	1862	1862	1862	2172	2172	2172
L	1490	1490	1490	1800	1800	1800

TECHNICAL SPECIFICATIONS

Condensing

Minimum flow temperature: 20°C
Minimum return temperature: 20°C

Max. operating temperature: 90°C
Safety thermostat: 110°C

Max. operating pressure: 7 bar
Min. operating pressure: 0,8 bar
NO_x classification: 6

Gas category: I_{2H}
Classification: B₂₃, B_{23P}, C₃₃, C₅₃, C₆₃, C₉₃

BOILER TYPE

	C 340-...	280	350	430	500	570	650	
Nominal output at 50/30°C Pn	kW	278.8	350.3	424.5	497.1	573.5	651.5	
Nominal capacity (firebox power)	kW	266	333	402	469	539	610	
Efficiency at...% output and °C water temp.	- 100% Pn at average temp. 70°C - 30% Pn at return temp. 30°C	%	98.0	98.1	98.2	98.3	98.4	98.5
Useful efficiency at ... % of rated heat output		%	88.3	88.4	88.5	88.6	88.7	88.7
	- 100%: Eta 4 - 30%: Eta 1	%	98.4	98.2	98	97.8	98.6	98.4
Water flow at ΔT = 20 K		m ³ /h	11.3	14.1	17.1	19.9	22.9	25.9
Auxiliary electrical power at Pn/Pmin boiler	W	280/52	345/57	450/64	576/72	768/68	720/60	
Min. nominal output at 50/30°C	kW	56	71	84	98	113	127	
Min.-max.. nominal output at 80/60°C	kW	51/261	65/327	79/395	92/461	106/530	119/601	
Water resistance at ΔT = 20 K	mbar	113	110	120	110	125	130	
Gas flow natural gas H	m ³ /h	28.1	35.2	42.5	49.6	57	64.6	
Flue gas mass flow rate	kg/h	448	560	676	789	907	1026	
Max. flue gas temperature at 40/30°C	°C	80	80	80	80	80	80	
Flue gas pressure available	Pa	130	120	130	150	150	150	
Water content	L	49	60	71	82	93	104	
Minimum flow rate (operation > 75°C)	m ³ /h	3.4	4.2	5.1	5.9	6.8	7.8	
Standing losses at ΔT = 30 K according EN 15420	W %	W	464	479	493	508	522	537
		%	0.17	0.14	0.12	0.11	0.10	0.09
Floor area	m ²	1.31	1.31	1.31	1.53	1.53	1.53	
Net weight	kg	366	400	435	497	533	570	

MODEL

	C 340-...	280	350	430	500	570	650
left Version:	C 340-... VG DIEMATIC Evolution	REF. 7769068	7769070	7769071	7769072	7769074	7769075
right Version:	C 340-... VD DIEMATIC Evolution	REF. 7769076	7769078	7769079	7769081	7769083	7769085

PROJECT



C 640-... from 74 to 1303 kW



The power in a compact unit



Delivered in 2 units fully assembled and tested in the factory: a flue gas valve integrated in the combustion line prevents any interference with the discharge of the flue gases between the 2 generators that compose it and thus facilitates cascade installation. Optional separation of the returns possible

- Equipped for natural gas operation, gas supply pressure: 20 mbar or 300 mbar with pressure regulator (optional)
- Low pollutant emissions:**
NOx < 56 mg/kWh, CO < 20 mg/kWh
- Exchanger in cast aluminium/silicium components with self-cleaning properties and with inspection trap

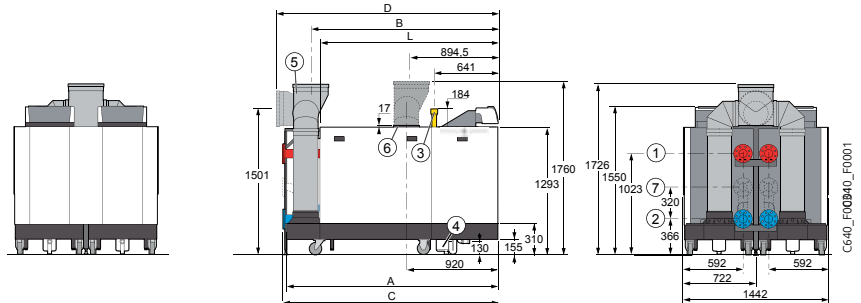
- Total pre-mix burner, modulating from 15 to 100% in output for perfect adjustment of boiler output to the actual needs of the installation and optimal combustion quality over the entire output range thanks to the constant air/gas ratio by venturi system
- Electronic ignition, ionisation sensor, flue gas collector provided
- 2 x DIEMATIC Evolution control systems
- Possibility of separation of returns on request
- Provided with casters + guide rail for easy installation into the boiler room
- Packaging: 1 package

N° CE 0063CL3613

OPTIONS: see following pages / **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

- Heating flow, flange DN 80 (DIN 2576)
 - Heating return, flange DN 80 (DIN 2576)
 - Gas inlet G 2" (tapped)
 - Condensates run-off, siphon provided, for PVC pipe Ø 32mm
 - Flue gas nozzle Ø 350mm
 - Combustive air inlet Ø 250mm, collector air inlet Ø 350mm optional
 - Second return nozzle, flange DN 65 (DIN 2576) (optional)
- G: External cylindrical threading water tightness by flat gasket.



	C 640-560	C 640-700	C 640-860	C 640-1000	C 640-1140	C 640-1300
A	1 833	1 833	1 833	2 142	2 142	2 142
B	1 582	1 582	1 582	1 892	1 892	1 892
C	1 862	1 862	1 862	2 172	2 172	2 172
D	1 962	1 962	1 962	2 271	2 271	2 271
L	1 490	1 490	1 490	1 800	1 800	1 800

TECHNICAL SPECIFICATIONS

Condensing

Minimum flow temperature: 20°C
Minimum return temperature: 20°C

Max. operating temperature: 90°C
Safety thermostat: 110°C

Max. operating pressure: 7 bar
Min. operating pressure: 0,8 bar
NOx classification: 6

Gas category: I_{2H}
Classification: B₂₃, B_{23P}, C₃₃, C₅₃, C₆₃, C₉₃

BOILER TYPE

	C 640-	560	700	860	1000	1140	1300	
Nominal output at 50/30°C Pn	kW	558	701	849	994	1147	1303	
Nominal capacity (firebox power)	kW	532	666	804	938	1 078	1 220	
Efficiency at...% output and °C water temp.	- 100% Pn at average temp. 70°C - 30% Pn at return temp. 30°C	%	98.0	98.1	98.2	98.3	98.4	98.5
		%	109.2	109.0	108.8	108.6	108.3	108.1
Useful efficiency at ... % of rated heat output	- 100%: Eta 4 - 30%: Eta 1	%	88.3	88.4	88.5	88.6	88.7	88.7
		%	98.4	98.2	98.0	97.8	97.6	97.4
Water flow at ΔT = 20 K	m ³ /h	22.6	28.3	34.1	39.8	45.8	51.9	
Auxiliary electrical power at Pn/Pmin boiler	W	560/120	690/124	900/160	1152/166	1536/178	1440/148	
Min. nominal output at 50/30°C	kW	74	94	131	130	156	165	
Min.-max.. nominal output at 80/60°C	kW	76/521	87/653	123/790	122/922	148/1061	165.4/1202	
Water resistance at ΔT = 20 K	mbar	113	110	120	110	125	130	
Gas flow natural gas H	m ³ /h	56.3	70.5	85.1	99.3	115.8	129.1	
Flue gas mass flow rate	kg/h	896	1120	1352	1578	1814	2052	
Max. flue gas temperature at 40/30°C	°C	80	80	80	80	80	80	
Flue gas pressure available	Pa	130	120	130	130	130	150	
Water content	L	98	120	142	164	186	208	
Minimum flow rate (operation > 75°C)	m ³ /h	6.8	8.4	10.2	11.8	13.6	15.6	
Standing losses at ΔT = 30 K according EN 15420	W	928	958	986	1016	1044	1074	
	%	0.17	0.14	0.12	0.11	0.10	0.09	
Floor area	m ²	2.68	2.68	2.68	3.13	3.13	3.13	
Net weight	kg	711	775	841	961	1 029	1 099	

MODEL

C 640-... 2 x DIEMATIC Evolution

C 640-	560	700	860	1000	1140	1300
REF.	7786011	7797731	7786013	7786014	7786015	7786016

OPTIONS

FOR C 340 AND C 640

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

	PACKAGE	REF.
2nd return nozzle C 340-280 (1)		S101776
2nd return nozzle C 340-350 (1)		S101777
2nd return nozzle C 340-430 (1)		S101778
2nd return nozzle C 340-500 (1)		S101779
2nd return nozzle C 340-570 (1)		S101780
2nd return nozzle C 340-650 (1)		S101781
Counter flange flow/return	-	7606977
Counter flange 2nd return	-	7606978
Sensor water pressure	-	7750082
Tightness checker for the gas train (1):		
- C 340-280 to 570 (Honeywell gas valve)		7745411
- C 340-650 (Dungs gas valve)		7745412
Minimum gas pressure switch (1):		
- C 340-280 to 570 (Honeywell gas valve)		7745414
- C 340-650(Dungs gas valve)		7745415
Air intake filter (1)	GS20	100002454
Condensates neutralisation system (without pump) DN3.0 (< 1300 KW)	SA9	7622188
Adaptation flange from 4 to 8 holes	-	S101775
Condensates neutralization system (with lift pump):		
- boilers up to 300 kW	SA4	7613610
- boilers from 300 to 1300 kW	DU15	83877011
Condensates neutralization system (without lift pump):		
- Boilers until 450 kW	SA3	7613609
- Boilers until 1300 kW	-	7622256
Neutralization granules for station:		
- 10 kg (2)	(2)	94225601
- 25 kg (2)	SA7	7613613

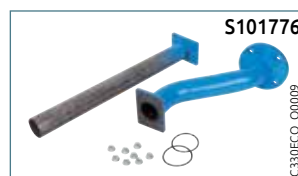
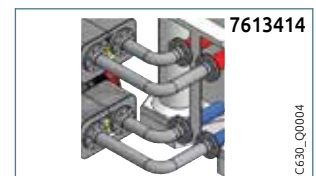
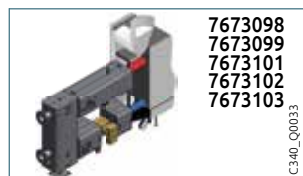
(1) to be ordered in duplicate for C 640
(2) to order at the spare parts department

DHW PRODUCTION

	PACKAGE	REF.
- Independent or mixed calorifier		see chapter 09
- Solar calorifier		see chapter 10
DHW sensor (C... ECO DIEMATIC iSystem)	AD212	100000030

ACCESSORIES FOR TECHNICAL ROOM

See chapter 16



FLUE SYSTEMS

	PACKAGE	REF.
► for C 340 only		
Flue gas nozzle adapter in case of replacement of C 310 ECO by C 340	S103178	S103178
Reduction Ø 250 on 200mm	S103179	S103179
Flue gas nozzle connecting kit for 2 x C 340	S103118	S103118
Collector air inlet for 2 x C 340	S103128	S103128
Vertical air/flue gas vent (galvanised aluminium) Ø 250/350 mm	51203	51203
Flashing for flat roof Ø 350 mm	46158	46158
► for C 640 only		
Vertical air/flue gas vent Ø 2 x 350mm	54443	54443
Collector air inlet	S103128	S103128

HYDRAULIC MODULES

	REF.
► for C 340 only	
Low loss header Connecting set for (3):	
- C 340-280	7673098
- C 340-350	7673099
- C 340-430	7673101
- C 340-500	7673102
- C 340-570 et 650	7673103
Plate heat exchanger connecting set (3):	
- C 340-280	7768167
- C 340-350	7768168
- C 340-430	7768169
- C 340-500	7768170
- C 340-570	7768171
- C 340-650	7768172
Kit with insulated flow/return elbows DN 80 (for connection on the right or left side of the boiler)	7674655
► for C 640 only	
Complete Hydraulic set DuoConnect (3):	
- C 640-560	7622302
- C 640-700	7622304
- C 640-860	7622306
- C 640-1000	7622307
- C 640-1140 and 1300	7622308
Kit with insulated flow/return elbows for hydraulic set (for connection on left or right side)	7613414
Magnet filter cartridge (to be mounted into the disconnecting cylinder)	7613415

(3) The connection sets are composed by:
 - 1 or 2 stainless steel compensators on flow connections
 - 1 or 2 intermediate piping with flanges and free connection R 1" 1/2 for the safety valve
 - 1 or 2 intermediate connections with flanges
 - 2 or 4 block valves on flow and return connections
 - 1 plate heat exchanger or 1 decoupling low loss header with adjustable foot, 1/2" reservation for the system sensor, 1/2" connection for air vent, R 1" connection for expansion vessel, R 1" 1/2" rain away, R 2" connection for an additional generator, Rp 1" 1/4 for magnetic bar (available optional)
 - 1 or 2 kits of return connections with flanges with connections R 1" 1/4 for boiler expansion vessel
 - 1 or 2 modulating pumps with Energy Efficiency Index EEI < 0.23 managed by 0-10V of the boiler control panel
 - Insulation in PEE shells covered with an aluminium sheet and fast bindings
 The delivery includes all screws and gaskets

OPTIONS

FOR C 340 AND C 640

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONTROL PANEL TYPE AND THE CONNECTED CIRCUITS

Circuit type (1)	DHW	direct or		valve or		2 x valve	direct + 2 x valve	3 x valve
		2 x direct	direct + 1 valve					
C 340/640 with control panel (2)	1 x AD212	as standard	1 x AD199	2 x AD199	1 x AD199 1 x AD249	2 x AD199 1 x AD249		
	DIEMATIC Evolution							

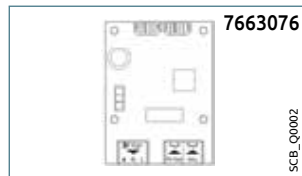
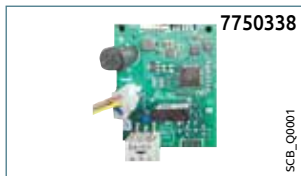
(1) Each heating circuit can be supplemented by a remote control.

(2) Cascade possibility. Each boiler in the cascade manages up to 3 valve circuits (2 x AD199 + 1 x AD249).

CONTROL UNITS

	PACKAGE	REF.		PACKAGE	REF.
Room thermostat			PCB:		
• Non-programmable room thermostat (wire)	AD140	88017859	• PCB + sensor for mixing valve	AD249	100013304
• Programmable (wired with battery)	AD337	7768817	• SCB-09 PCB for connection of an external gas valve	-	7663076
Room sensor:			• SCB-13 PCB that can control a hydraulic isolation valve for cascade	-	7750338
• SMART TC°, R-BUS (wire)	AD324	7691375	S-BUS cable (with plug):		
Sensor:			• 1.5 m	AD308	7663618
• Sensor for mixing valve	AD199	88017017	• 12 m	AD309	7663561
• DHW sensor	AD212	100000030	• 20 m	AD310	7663619
• Sensor for storage tank or "Cascade outlet sensor"	AD250	100013305	S-BUS plug	AD321	7688305
• SMART TC° RF (wireless)	AD341	7691377	Control unit VM DIEMATIC Evolution, wall-mounted	AD315	7676561
• SMART TC° RF (wireless) for 2nd circuit	AD342	7765144	Communication gateway GTW08 L-BUS-ModBus	AD332	7721982
• External sensor (radio) *	AD346	7776874	Communication gateway GTW21 L-BUS- BACnet	-	7756023

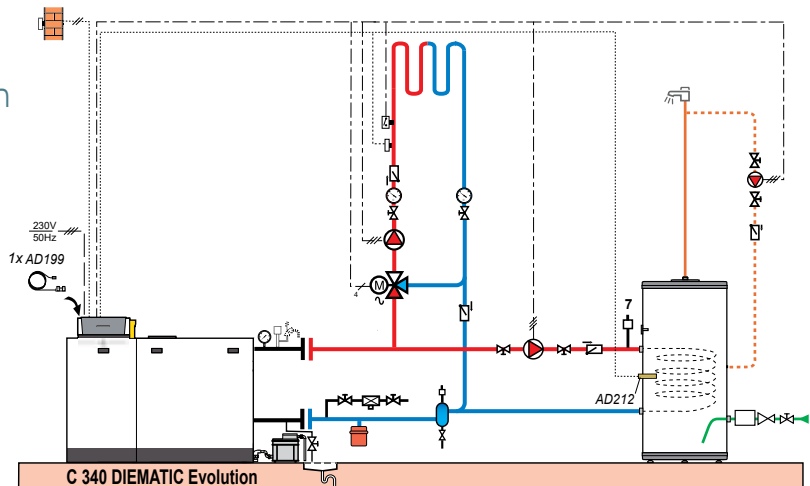
* Only with AD341 package



EXAMPLES OF INSTALLATION

FOR C 340 AND C 640

C 340 C 340-280 DIEMATIC Evolution

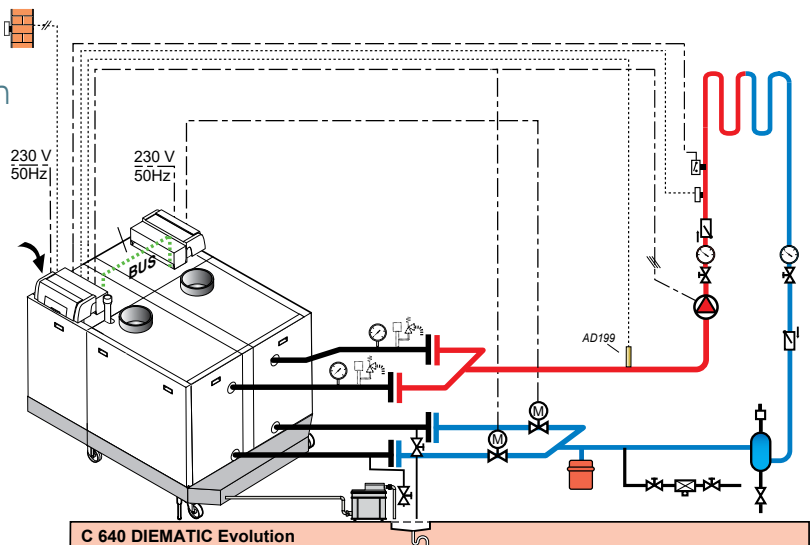


C340_F1003

DESCRIPTION

	PACKAGE	REF.
C 340-280 DIEMATIC Evolution	-	7769068
Steel microbubble degasser DN 65	SA21	7650338
Steel sludge separator DN 65 (20 m ³ /h)	SA27+SA31	7650381+7650386
Calorifier B 800 (tank)	AJ79	7650481
Rigid casing for B 800	AJ95	7650497
Outlet sensor downstream of the valve	AD199	88017017
DHW sensor	AD212	10000030
Treatment product "SoluTECH FULL PROTECTION" (1 can) for a treatment of a volume of installation of 12 m ³	SA40	7651705

C 640 C 640-560 DIEMATIC Evolution



C340_F6007

- 1 underfloor direct heating circuit

DESCRIPTION

	PACKAGE	REF.
C 640-560 DIEMATIC Evolution	-	7786011
Steel microbubble degasser DN 80	SA22	7650339



FUEL OIL

O4 FUEL OIL CONDENSING BOILERS 16,5 to 61 kW

RESIDENTIAL DOMESTIC SELECTION GUIDE	p134
CFU C...Condens	p136
Modulens O® AFC-S	p141
COMMERCIAL RANGE SELECTION GUIDE	p145
Modulens O® Pro PFC	p146

O5 CAST IRON LOW TEMPERATURE BOILERS 16 to 1450 kW

RESIDENTIAL DOMESTIC SELECTION GUIDE	p150
CFX	p151
CF/CFU EcoNox	p152
COMMERCIAL RANGE SELECTION GUIDE	p158
GT 220	p160
GT 330	p163
GT 430	p164
GT 530	p165

RESIDENTIAL RANGE SELECTION GUIDE

CFU C...Condens



		CFU C 19	CFU C 24	CFU C 32	CFU C 40	CFU C 50
Nominal output at 80/60°C (heating)	kw	19.3	23.2	32	40.6	50.5
Nominal output at 80/60°C (DHW production)	kw	17.7 to 18	21.6 to 23.1	25.9	-	-
Energy class in heating						
Energy class in DHW		 using calorifier 110SL or 160SL	 using calorifier 110SL or 160SL	 using calorifier 160SL	-	-
Specific rate according with EN 13203	L/Min	using calorifier 110SL : 17.5 using calorifier 160SL : 21	using calorifier 110SL : 18 using calorifier 160SL : 23	using calorifier 160SL : 24	-	-
Boiler equipped		Option	Option	Option	Option	Option
For connection		chimney or forced flue connection	chimney or forced flue connection	chimney or forced flue connection	chimney	chimney
Heating circuits						
Equipped with DHW calorifier		Option	Option	Option	Option	Option
Connectivity (in option)		Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°
Page		136	136	136	136	136
Flue systems		See chapter 14				
Options and examples of installation		138				

* System Label is A due to factory delivered outside sensor

Modulens O®



AFC-S ...



17.1 to 28.6

-

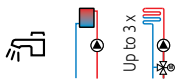


-

-

X

chimney or forced flue connection



-

-

141



AFC-S/VL 160 SL



17.1 to 28.6

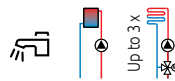
16.2 to 27



21 to 24

X

chimney or forced flue connection



horizontal column

-

142



AFC-S/B 160 SL



17.1 to 28.6

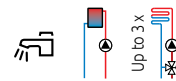
18 to 30



21 to 24

X

chimney or forced flue connection



juxtaposed

-

142

See chapter 14

143

FUEL OIL

COMPACT CONDENSING BOILERS WITH INTEGRATED FUEL OIL JET BURNER FOR HEATING

EASYLIFE



CFU C...Condens

CFU C 19 to 50 from 19.3 to 50.5 kW

point

Condensing boiler
very compact
Bio-Oil B10 compatible



Compact floor-standing fuel oil condensing boiler.

- For chimney (B₂₃) and forced flue connection (FF connection) only for 19, 24 and 32 execution with accessory MY920.
- According to Erp directive: efficiency at 30% (at return temp. 30°C) up to 101.5%.
- Main heat exchanger in eutectic cast iron with 3-path flue way for silent running
- Ceramic exchanger-condenser with high heat conductivity and high acid resistance enabling the use of all types of fuel oil

- New compact integrated fuel oil jet burner, with low NOx and CO emissions to satisfy the strictest of requirements
- E-Pilot control panel factory mounted with outside temperature sensor (in packaging).
- Complete hydraulic set (Package MY445) available as accessory (see options on following pages)
- **Packaging:** 1 package

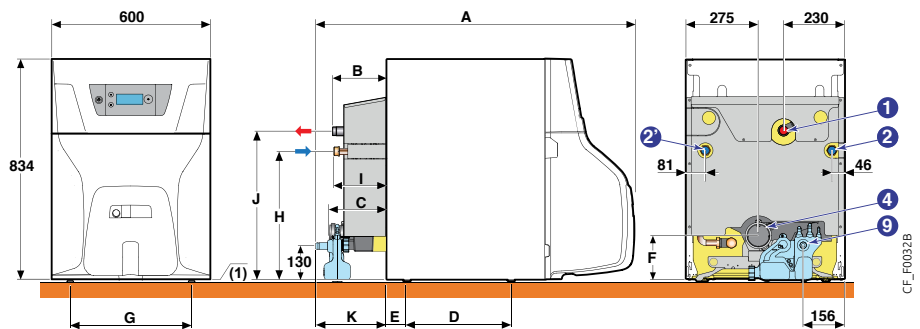
* System heating Energy class Label is A due to delivered outside sensor

N° CE 0085CQ0002

OPTIONS: see following pages, **FLUE SYSTEMS:** see chapter 14

MAIN DIMENSIONS (mm and inches)

	CFU C 19/24/32	CFU C 40/50	CFU C 19/24/19/24/32 /VEL 110SL 160SL	CFU C 19/24/19/24/32 /VEL 110SL 160SL
① Heating flow	G 1"	G 1"	G 1"	G 1"
② Heating return CFU C 19/24/35	G 1"	-	G 1"	G 1"
② Heating return CFU C 40/50	-	G 1"	-	-
④ Flue connection (mm)	Ø 80	Ø 110	Ø 80	Ø 80
⑤ Domestic cold water inlet	-	-	G 1"	G 1"
⑥ DHW outlet	-	-	G 1"	G 1"
⑦ Circulation loop return (option)	-	-	G 3/4"	G 3/4"
⑧ Drain tap connection for pipe (Ø int. in mm)	-	-	Ø 14	Ø 14
⑨ Condensate evacuation	-	-	-	-
(1) Feet adjustable (mm):	- CFU C 19/24/32: 9 - 35			
	- CFU C 40/50: 19 - 45			
(2) Feet adjustable (mm):	10 - 30			



	A	B	C	D	E	F	G	H	I	J	K
CFU C 19	1060	74	92	397	75	165	460	488	72	566	136
CFU C 24	1060	74	92	397	75	165	460	488	72	566	136
CFU C 32	1187	204	218	397	75	165	460	488	199	566	260
CFU C 40	1357	90	136	569	179	184	280	447	95	558	167
CFU C 50	1483	216	263	696	52	184	280	447	222	558	293
CFU C 19/VEL 110SL	1095	166	-	-	-	-	-	-	164	-	136
CFU C 24/VEL 110SL	1095	166	-	-	-	-	-	-	164	-	156
CFU C 19/VEL 160SL	-	166	-	-	-	-	-	-	164	-	136
CFU C 24/VEL 160SL	-	166	-	-	-	-	-	-	164	-	156
CFU C 32/VEL 160SL	-	296	-	-	-	-	-	-	291	-	260

TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 90°C
Max. operating pressure: 3 bar

Thermostat 30 to 90°C adjustable
Safety thermostat: 110°C

NOx classification:
3 according to EN 267

Classification: B_{23P},
C₁₃, C₃₃, C₉₃ with
accessory MY920 for CFU
C 19/24/32

MODELL

		CFU C			CFU C	
		19	24	32	40	50
Nominal output at 50/30°C	kW	19.3	24.3	32.0	40.6	50.5
Efficiency at % PCI	%	- 100% at average temp. - 70°C (1)				
water temp.		- 30% at return temp. - 30°C (2)				
Seasonal space heating energy efficiency (without contribution of regulation)	%	88	88	88	88	88
Seasonal space heating energy efficiency (with outdoor sensor)	%	90	90	90	90	90
Water content	L	24	29.5	35	40.5	46
Stand-by losses at ΔT = 30 K (Q _{po30})	W	84	84	100	115	130
Auxiliary electrical power at P _{n_gen} (Q _{aux})	W	194	154	156	365	379
Standby electrical power	W	4	4	4	4	4
Flue gas pressure available	Pa	12	19	32	16	26
Net weight	kg	189	217	245	273	301

Values at nominal output and CO₂ = 13% on fuel oil
(1) Average boiler temperature (2) Return flow temperature

MODEL

		CFU C			CFU C	
		19	24	32	40	50
PACKAGE		MY720	MY721	MY723	MY725	MY726
REF		7730639	7730672	7730745	7730752	7732692

FUEL OIL

COMPACT CONDENSING BOILERS WITH INTEGRATED FUEL OIL JET BURNER FOR HEATING AND DHW PRODUCTION



CFU C...Condens

CFU C... VEL 110SL from 19.3 kW to 24.3 kW

+ point

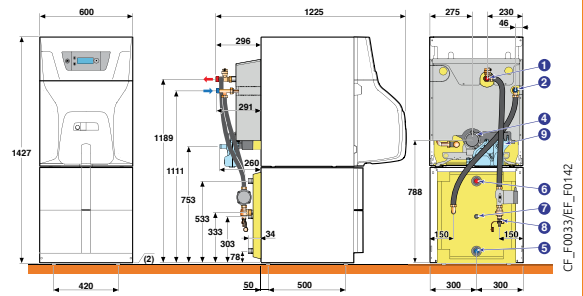
Compact solution with integrated DHW tank and burner



Modular design boiler with 110 litres enamelled coil tank in "Standard load" positioned under the boiler to form a uniform "column".

- Protection of DHW tank through magnesium anode
- Boiler /tank connecting set with modulating load pump with high energy efficiency index EEI < 0.23, DHW sensor delivered
- Adjustable feet
- Packaging: 3 packages

* System heating Energy class Label is A due to delivered outside sensor



MODEL

Boiler CFU C
Calorifier EL110SL
Boiler - storage tank connection kit

PACKAGE	REF	PACKAGE	REF
MY720	7730639	MY721	7730672
ER590	7609915	ER590	7609915
MY925	7744614	MY925	7744614



CFU C...Condens

CFU C... VEL 160SL from 19,3 to 32 kW

+ point

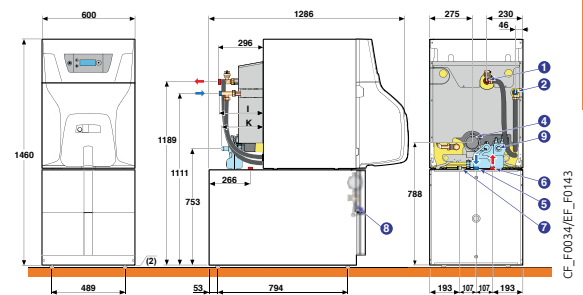
High DHW performances



Modular design boiler with 160 litres enamelled, "standard load", DHW tank with coil placed horizontally beneath the boiler, which can be positioned against the wall to build an attractive uniform column taking up less space in terms of height and depth.

- Protection of DHW calorifier by magnesium anode
- Boiler /calorifier connecting set with modulating load pump with high energy efficiency index EEI < 0.23, DHW sensor delivered,
- Adjustable feet
- Packaging: 3 packages

* System heating Energy class Label is A due to delivered outside sensor



MODEL

Boiler CFU
Calorifier EL160SL
Boiler - storage tank connection kit

PACKAGE	REF	PACKAGE	REF	PACKAGE	REF
MY720	7730639	MY721	7730672	MY723	7730745
ER592	7616405	ER592	7616405	ER592	7616405
MY925	7744614	MY925	7744614	ER586	7629711

TECHNICAL SPECIFICATIONS FOR DHW TANK

Max. operating temperature: 95°C : Max. operating pressure: 10 bar

MODELL

	CFU C	19/VEL 110SL	24/VEL 110SL	19/VEL 160SL	24/VEL 160SL	32/VEL 160SL
Nominal output at 50/30°C	kW	19.3	24.3	19.3	24.3	32.0
DHW calorifier capacity	L	110	110	160	160	160
DHW exchanged power	kW	18.0	21.6	17.7	23.1	25.9
Specific rate at ΔT = 30 K (compl. with EN 13203-1)	L/min	17.5	18.0	21	23	24
Flow per hour at ΔT = 35 K	L/h	440	530	435	565	635
Flow over 10 min at ΔT = 30 K	L/10 min	190	192	240	245	250
Coefficient of heat losses	W/K	1.46	1.46	1.52	1.52	1.52
Net weight	kg	263	291	279	307	355

DHW performances at room temperature at Pn: 20°C, cold water temp. at Pn: 10°C, temp. hot water at Pn: 45°C, primary hot water: 80°C, storage temp.: 60°C

FUEL OIL

FOR CFU C...CONDENS

BOILERS ACCESORIES

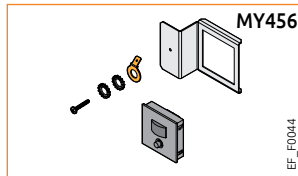
	PACKAGE	REF
Condensates neutralisation station	FM155	100004290
Spare granules for neutralisation station	FM156	100004291
Neutralisation station holder	FM157	100004292
Lift pump	FM158	100004293
Fuel filter deaerator «Flocotop» (recommended)	MT11	100019100
Hydraulic equipment set completely insulated to be integrated in the boiler. Consists out of: an 18 liter expansion tank, a modulating high-efficiency heating pump with EEI <0.23, a non-return flap, an air vent, a safety valve and a manometer	MY445	7629652
Forced flue equipment kit 19/24/32	MY920	7742053

HYDRAULIC MODULES

see chapter 14

DHW PRODUCTION

	PACKAGE	REF
• with independent calorifier		See chapter 08
• with solar calorifier		See chapter 10
• DHW temperature sensor	AD212	100000030
Calorifier EL110SL	ER590	7609915
Calorifier EL110SL	ER592	7616405
Boiler storage tank connection kit	MY925	7744614
Kit anode «ACI»	MY475	7629841
Magnesium anode tester	MY456	7629902
Connecting kit CFU C boiler/calorifier BLC/BPB or solar calorifier UNO	ER599	7639495



CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Control panel	E-pilot	CFU C 19/24/32	Circuit type				or	CFU C 40/50
			DHW	direct	valve	direct + valve		
		AD212 (1)	as standard (2)	MY440 (2)	MY440 (2)	no		
		AD212 (1)	as standard (2)	MY440 (2)	MY440 (2)	2 x MY440 (2)		

Regulation according to the room temperature:

(1) DHW sensor delivered with tanks EL 110SL and EL 160SL.

(2) Each of the circuits "heating" can be completed in choice by a remote control (package AD337, AD338, AD140, AD304, AD303 or AD324)

MODEL

	PACKAGE	REF
Room thermostat:		
• Non-programmable room thermostat (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
Connected room thermostat:		
• SMART TC® RF (wireless)	AD341	7691377
• SMART TC® RF (wireless) for 2 nd circuit	AD342	7765144
• SMART TC®, R-BUS (wire)	AD324	7691375
• Programmable with energy metering function (wireless)	AD303	7609762
• Programmable with energy metering function (wire)	AD304	7609763
External sensor (radio)*	AD346	7776874
PCB + sensor for 1 circuit with mixing valve	MY440	7628142
DHW temperature sensor	AD212	100000030

* Only with AD341 package



CFU C...Condens

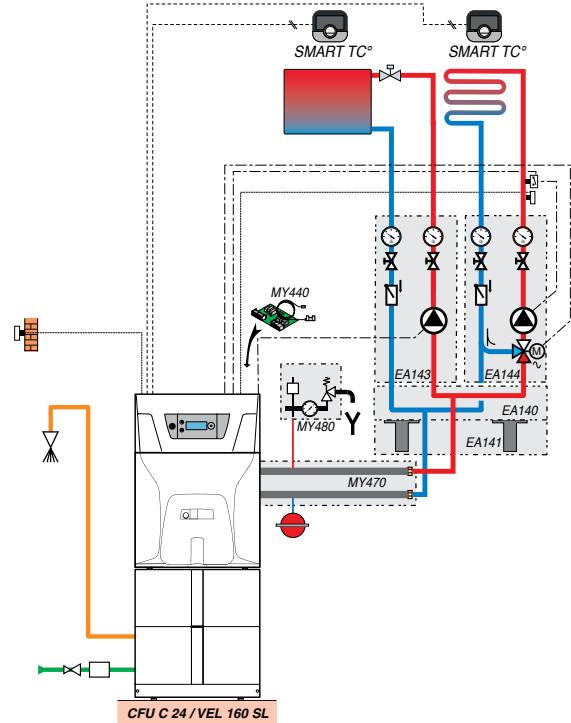
CFU C 24/VEL 160SL



- 1 direct circuit "radiators"
- 1 underfloor heating circuit with mixing valve

DESCRIPTION

	PACKAGE	REF
CFU C 24 I/VEL 160SL boiler	MY721	7730672
PCB + sensor for 1 circuit with mixing valve	MY440	7628142
Options		
- Calorifier EL160SL	ER592	7616405
- Boiler - storage tank connection kit	MY925	7744614
- 2 x Connected room thermostat SMART TC° (R-BUS)	2 x AD324	2 x 7691375
- Hydraulic module with a high performance energy pump for 1 direct circuit	EA143	100020167
- Hydraulic module with a high performance energy pump for 1 direct circuit with mixing valve	EA144	100020168
- Insulated collector for 2 or 3 hydraulic modules	EA140	100020164
- Set of wall consoles for collector	EA141	100020165
- Flexible boiler/calorifier pipe	MY470	7629824
- Hydraulic safety kit	MY480	7629826



CF_F0043

CFU C...Condens

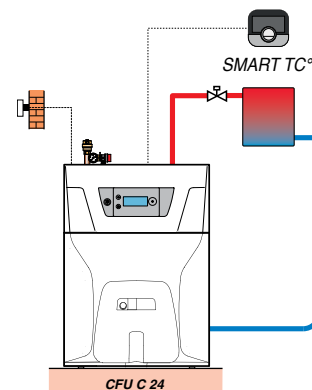
CFU C 24



- 1 direct circuit "radiators"

DESCRIPTION

	PACKAGE	REF
CFU C 24 boiler	MY 721	7730672
Options		
- Connected room thermostat SMART TC° (R-BUS)	AD324	7691375
- Hydraulic equipment set	MY445	7629652

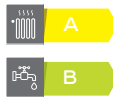


CF_F0036

EXAMPLES OF INSTALLATION

FOR CFU C...CONDENS

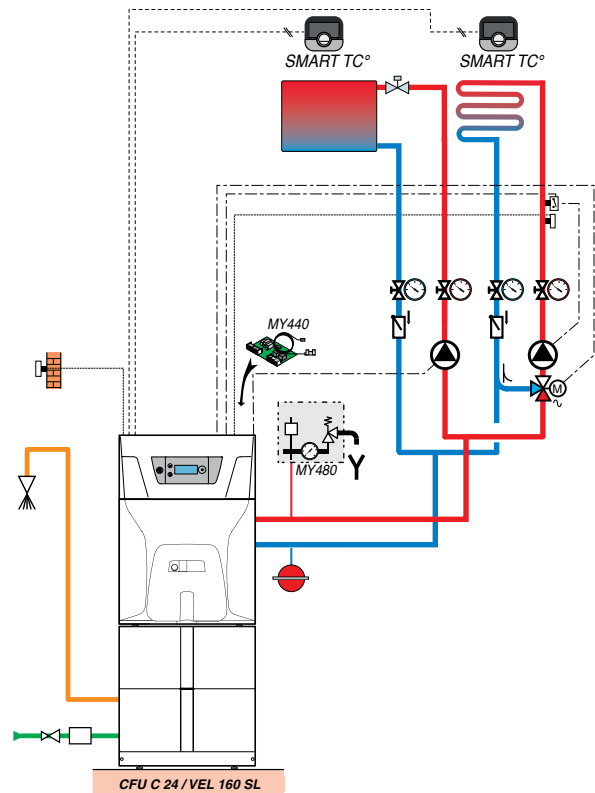
CFU C...Condens CFU C 24 - CALORIFIER 160 SL



- 1 direct circuit "radiators"
- 1 underfloor heating circuit with mixing valve

DESCRIPTION

	PACKAGE	REF
CFU C 24 boiler	MY721	7730672
Options		
- Forced flue equipment kit	MY920	7742053
- Calorifier EL 160SL	ER592	7616405
- Boiler - storage tank connection kit	MY925	7744614
- PCB + sensor for 1 circuit with mixing valve	MY440	7628142
- Connected room thermostat SMART TC° (R-BUS)	AD324	7691375
- Hydraulic safety kit	MY480	7629826



CF_F0045

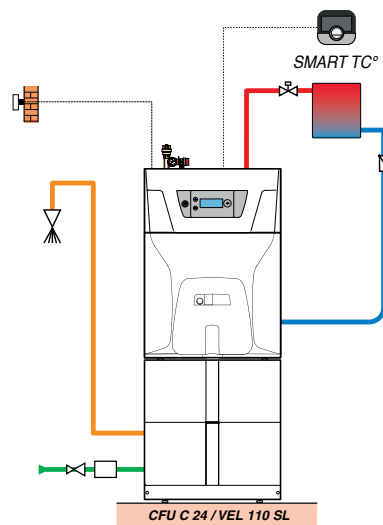
CFU C...Condens CFU C 24 - CALORIFIER 110 SL



- 1 direct circuit "radiators"

DESCRIPTION

	PACKAGE	REF
Boiler CFU C 24	MY721	7730672
Options		
- Calorifier EL 110SL	ER590	7609915
- Boiler - storage tank connection kit	MY925	7744614
- Hydraulic equipment set	MY445	7629652
- Connected room thermostat SMART TC° (R-BUS)	AD324	7691375



CF_F0046

FUEL OIL

COMPACT CONDENSING BOILERS WITH INTEGRATED FUEL OIL JET BURNER FOR HEATING

ADVANCE



Modulens O®

AFC-S from 10.6 to 30 kW



point

Fuel oil condensing boiler
fully equipped
Modulating burner
Bio-Oil B10 compatible

Compact floor-standing fuel oil condensing boiler with modulating burner

- For chimney connection: homologations B_{23P} and B₂₃ or horizontal or vertical forced flue connection (homologations C₁₃, C₃₃) or to a chimney (homologation C₉₃)
- Monobloc stainless steel exchanger with thick sides, for high corrosion resistance, with 3-path vertical flue way and large combustion chamber
- Aluminium combustion chamber door with flame display
- EcoNOx fuel oil burner (NOx < 80mg/kWh), modulating from 59 to 100% of output, positioned vertically
- Boiler equipped with: modulating pump, 3-bar safety valve, fuel oil filter with deaerator "Flocotop"



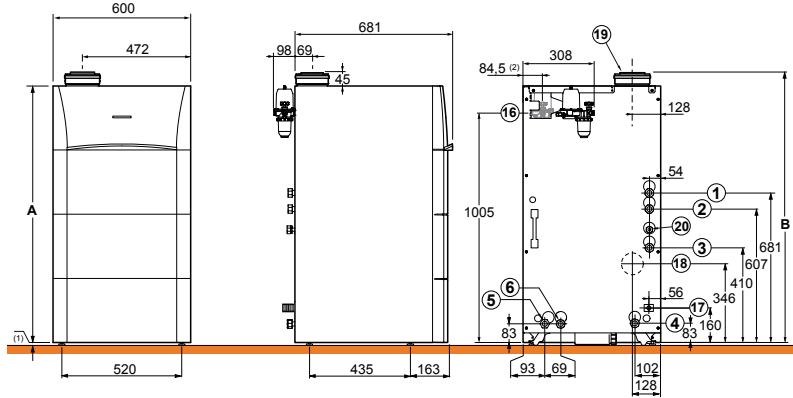
- Condenser receiver tank of composite material with flue gas thermostat and siphon widely dimensioned
- DIEMATIC Evolution control panel with programmable electronic system based on the outside temperature allowing the burner control.
- Compact boilers of modular design with the same aesthetic as the DHW calorifiers with which they can be combined
- Installation and maintenance easier: opening for portage bars, arm for putting in maintenance position of the burner, opening at the back of the combustion chamber for rinsing, cleaning brush supplied, adjustable feet.
- Packaging: 1 package

N° CE 1312CN5691

OPTIONS: see following pages/ FLUE SYSTEMS: see chapter 15

MAIN DIMENSIONS (mm and inches)

- Heating flow direct circuit G 1"
 - Heating return direct circuit G 1"
 - Primary inlet/return from independent DHW calorifier G 3/4" (with package MV 18: internal connecting pipes for the connection of an independent DHW calorifier including load pump)
 - Heating flow/return circuit with mixing valve G 1" (with package MV31: internal pipes kit with motorised 3-way valve, or with package MV 6: internal pipes only kit - option)
 - Domestic cold water inlet G 3/4"
 - Domestic hot water outlet G 3/4"
 - DHW circulation loop return G 3/4" (with package ER219: recirculation kit for 160 SL - option)
 - Drain tap connection for pipe Ø ext. 14 mm
 - Oil supply G 3/8"
 - Condensate evacuation, tube Ø ext. 25 mm
 - Flue outlet low Ø 80 mm with package MV9 (option)
 - Flue connection Ø 80 mm or air/flue connection Ø 80/125 mm
- (1) Feet adjustable from 10 to 30 mm.
(2) In case of mounting the oil filter with deaerator outside the boiler



	AFC-6S/B 160 SL			AFC-S/VL 160 SL		
A (mm)	1113	1113	1193	1113	1113	1193
B (mm)	1158	1158	1238	1763	1763	1843

TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 85°C : Thermostat 30 to 85°C adjustable : Classification: B₂₃, B_{23P}, C_{13X}, C_{33X}, : NOx classification: 3
Max. operating pressure: 3 bar : Safety thermostat: 95°C : C_{93X} :

MODEL

	AFC-S	18	24	30
Nominal output at 50/30°C	kW	18.0	24.0	30.0
Efficiency at ...%	- 100% at average temp. 70°C - 100% at return temp. 30°C	%	97.5	97.1
output and ...°C		%	102.1	102.0
water temp.	- 30% at return temp. 30°C	%	102.7	101.9
Seasonal space heating energy efficiency (without contribution of regulation)	%	90	90	90
Seasonal space heating energy efficiency (with outdoor sensor)	%	92	92	92
Water flow at ΔT = 20 K	m³/h	0.773	1.032	1.291
Useful output range at	- 50/30°C	kW	10.6-18.0	14.1-24.0
	- 80/60°C	kW	10.0-17.1	13.4-22.8
Water content	l	47	47	58
Water resistance at ΔT = 20 K	mbar	64	84	109
Flue gas mass flow rate	kg/h	27	36	45
Flue gas pressure available	Pa	14	22	33
Net weight	kg	113	113	133

Values at nominal output and CO₂ = 12% on fuel oil

MODEL

	AFC-S	18	24	30
Package		MV50	MV51	MV52
Ref.		7742333	7742334	7742335

FUEL OIL

COMPACT CONDENSING BOILERS WITH INTEGRATED FUEL OIL JET BURNER FOR HEATING AND DOMESTIC HOT WATER



AFC_Q0008

Modulens O®

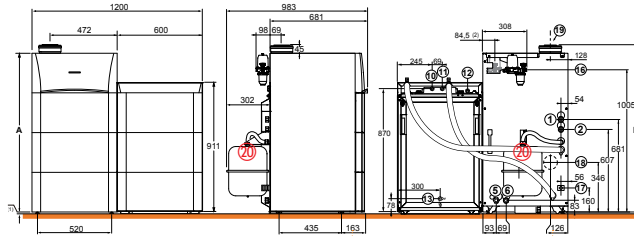
AFC-S.../B 160 SL from 10,6 to 30 kW



Enamelled coil calorifier "Standard Load" from 160 l horizontally.

- Positioned under the boiler, with the same aesthetic as the boiler.
- Protection by "Titan Active System®" (anode without consumption of material).

- Draining valve, coupling for a circulation loop.
- Boiler/calorifier connecting pipes with load pump integrable under the casing boiler and DHW sensor included, adjustable feet.
- Packaging: 3 packages.



AFC_F0003D

Ⓜ Expansion vessel, to be ordered as option

MODELS

	AFC-S	18/B 160 SL	24/B 160 SL	30/B 160 SL
Boiler AFC-S 18	Package MV50	Reference 7742333	Reference -	Reference -
Boiler AFC-S 24	MV51	-	7742334	-
Boiler AFC-S 30	MV52	-	-	7742335
Expansion vessel 18 litres	MV4	100016432	100016432	100016432
160 SL DHW calorifier	ER223	100016428	100016428	100016428
Boiler/Calorifier connecting pipes + DHW sensor	MV32	7608113	7608113	7608113



Modulens O®

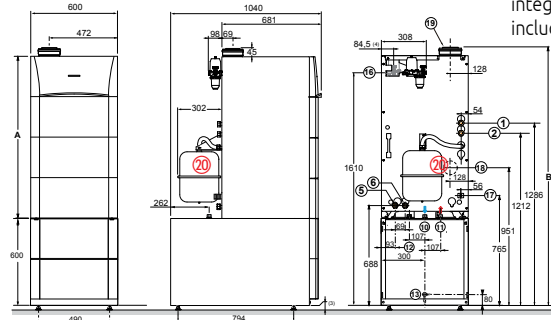
AFC-S.../VL 160 SL from 10,6 to 30 kW



Enamelled coil calorifier "Standard Load" from 160 l horizontally.

- Positioned under the boiler, with the same aesthetic as the boiler.

- Protection by "Titan Active System®" (anode without consumption of material).
- Draining valve, coupling for a circulation loop.
- Boiler/calorifier connecting pipes with load pump integrable under the casing boiler and DHW sensor included, adjustable feet.
- Packaging: 3 packages.



AFC_F0030B

Ⓜ Expansion vessel MV4, to be ordered as option

MODELS

	AFC-S	18/VL 160 SL	24/VL 160 SL	30/VL 160 SL
Boiler AFC-S 18	Package MV50	Reference 7742333	Reference -	Reference -
Boiler AFC-S 24	MV51	-	7742334	-
Boiler AFC-S 30	MV52	-	-	7742335
Expansion vessel 18 litres	MV 4	100016432	100016432	100016432
DHW Calorifier L 160 SL	EC600	100020079	100020079	100020079
Boiler/Calorifier connecting pipes + DHW sensor	MV34	7611211	7611211	7611211

TECHNICAL SPECIFICATIONS DOMESTIC HOT WATER (BOILER SEE OPPOSITE)

Max. operating temperature DHW: 70°C

Max. operating pressure DHW: 10 bar

MODELS

	AFC-S	18... /B 160 SL	24... /B 160 SL	30... /B 160 SL	18... /VL 160 SL	24... /VL 160 SL	30... /VL 160 SL
Usefull output at 50/30°C (heating mode)	kW	18.0	24.0	30.0	18.0	24.0	30.0
DHW calorifier capacity	Litres	155	155	155	160	160	160
Exchanged power	kW	18	24	30	16.2	22	27
Flow over 10 min at ΔT = 30 K	l/10mn	230	235	240	230	235	240
Flow per hour at ΔT = 35 K	l/mn	440	590	740	417	565	590
Specific rate at ΔT = 30 K (compl. with EN 13203-1)	l/mn	21	23.5	24	21	23.5	24
Coefficient at heat losses	W/K	1.78	1.78	1.78	1.52	1.52	1.52
Net weight: AFC-S	kg	201	201	221	201	201	221

DHW performances at room temperature: 20°C, cold water temp.: 10°C, primary hot water: 80°C, storage temp.: 60°C

OPTIONS

FOR MODULES O®

HYDRAULIC MODULES

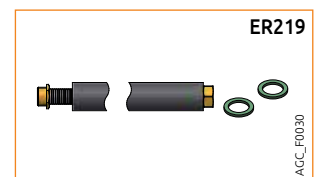
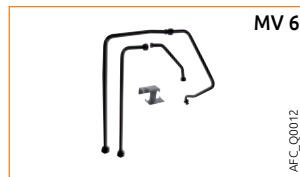
	PACKAGE	REF
Hydraulic kit limiter temperature for underfloor heating circuit	MV10	100017736
Internal 3-way valve kit with engine and sensor for mixing valve and a pump with energy efficiency index EEI < 0.23	MV31	7608112
Internal adaptation kit for external 3-way valve	MV6	100016490
Hydraulic module with a pump with energy efficiency index EEI < 0.23 for 1 circuit with valve	EA144	100020168
Insulated collector for 2 or 3 modules	EA140	100020164
Set of wall consoles for collector	EA141	100020165
G in R connection kit (1" and 3/4")	BH84	89557009

DHW PRODUCTION

	PACKAGE	REF
With juxtaposed or located under the boiler tank		See previous page
With independent tank		See chapter 08
With independent solar tank		See chapter 10
DHW sensor	AD212	100000030
Internal connection pipes for connection of an independent calorifier with loading pump with energy efficiency index EEI < 0.23	MV33	7608114
Magnesium anode kit	EA103	100000492
Recirculation kit for calorifier 160 SL	ER219	100017433

ACCESSORIES

	PACKAGE	REF
Expansion vessel 18 l	MV4	100016432
Kit rear exit (for AFC-S... E)	MV9	100017720
Measure adapter Ø 80/125 mm PPs/Alu	MV25	100019734
Condensates neutralisation station	FM155	100004290
Spare granules for neutralisation station	FM156	100004291
Neutralisation station holder	FM157	100004292
Lift pump	FM158	100004293
Decoupling cylinder 60/60 - 1"	GV45	100019346
Adapter for external circulating pump	MV30	7608024



OPTIONS AND EXAMPLE OF INSTALLATION

FOR MODULES O® AFC-S...

CONTROL UNIT OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Anlagentyp	AFC-S...	DHW	1 or 2 direct circuits	1 valve	1 direct + 1 valve	2 x Valve	1 direct + 2 x Valve	3 x Valve
		Controlpanel DIEMATIC Evolution (1)	AFC-S... VL/B	1 x AD212	As standard	1 x AD199	1 x AD199	2 x AD199
		As standard	As standard	1 x AD199	1 x AD199	2 x AD199	1 x AD199 + 1 x AD249	2 x AD199 + 1 x AD249

1) Each circuit "heating" can be completed by a remote control.

CONTROL UNITS OPTIONS

PACKAGE	REF	PACKAGE	REF
Room thermostat:			
• Non-programmable room thermostat (wire)	AD140	88017859	
• Programmable (wired with battery)	AD337	7768817	
• Programmable (wireless)	AD338	7768818	
Connected room thermostat:			
• SMART TC°, R-BUS (wire)	AD324	7691375	
• SMART TC° RF (wireless)	AD341	7691377	
• SMART TC° RF (wireless) for 2 nd circuit	AD342	7765144	
Sensor:			
• Sensor for mixing valve	AD199	88017017	
• DHW sensor	AD212	10000030	
• Sensor for storage tank	AD250	100013305	
• External sensor (radio)*	AD346	7776874	
• PCB + sensor for mixing valve	AD249	100013304	
• DIEMATIC BUS connecting cable	AD134	88017851	
* need to order the connected room sensor AD341			
S-BUS cable:			
• 1.5 m with plug	AD308	7663618	
• 12 m with plug	AD309	7663561	
• 20 m with plug	AD310	7663619	
S-BUS plug	AD321	7688305	
Control unit VM DIEMATIC Evolution, wall-mounted	AD315	7676561	



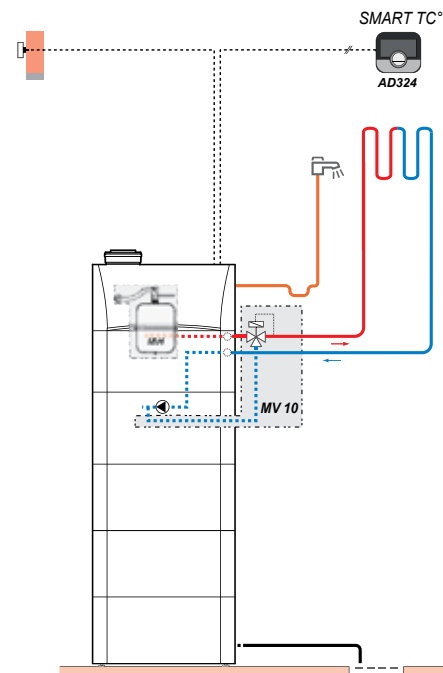
Modulens O® AFC-SVL 160 SL



- 1 direct circuit "underfloor heating"

DESCRIPTION

	PACKAGE	REF
Boiler AFC-S 18	MV50	7742333
DHW calorifier L 160 SL	EC600	100020079
Boiler/Calorifier connecting pipes + DHW sensor	MV34	7611211
Options		
- Hydraulic kit limiter temperature for underfloor heating circuit	MV10	100017736
SMART TC°, R-BUS (wire)	AD324	7691375
- 18 L expansion vessel	MV4	100016432



COMMERCIAL RANGE SELECTION GUIDE

MODULENS O PRO



PFC 45



PFC 60



Nominal output at 80/60°C (heating)	kw	27.4 to 44.5	35.9 to 58.4
Energy class in heating			
Energy class in DHW		-	-
Modulating fuel oil burner		X	X
To chimney connection		X	X
Heating circuits			
DHW production with independent calorifier or plate exchanger for instantaneous DHW (see chapter 9)		X	X
Connectivity Modbus RTU RS485		X	X
Page		146	146
Flue systems		See chapter 14	
Options and examples of installation		147	

FUEL OIL

COMPACT CONDENSING BOILERS WITH INTEGRATED MODULATING FUEL OIL BURNER FOR HEATING

PROJECT



Modulens O[®] Pro

PFC... from 29 to 61 kW



point

Fuel oil condensing boiler
Modulating burner
Connectable product
Bio-Oil B10 compatible

Compact floor-standing boiler with low dimension on the ground for chimney connection

- Monobloc stainless steel exchanger
- Aluminium combustion chamber door with flame display
- EcoNOx fuel oil burner (NOx <110mg/kWh), modulating from 59 to 100% of output
- Boiler equipped with: fuel oil filter with deaerator "Flocotop", condenser receiver tank, flue gas thermostat, siphon widely dimensioned
- Adjustable control panel with DIEMATIC EVOLUTION regulation. Optimisation of the management of combined heating systems (see regulation on following pages)

- Installation and maintenance easier: opening for portage bars, arm for putting in maintenance position of the burner, opening at the back of the combustion chamber for rinsing, cleaning brush supplied, adjustable feet, footboard integrated in PFC60 for easy access to the burner
- Packaging: 1 package

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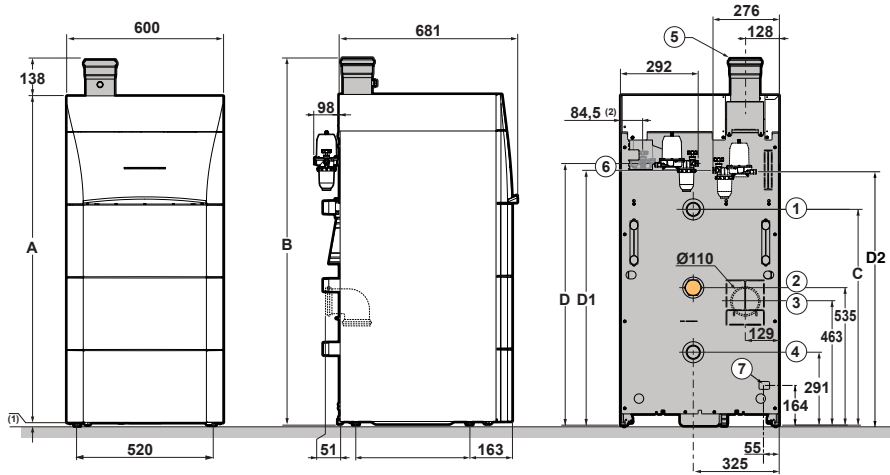
OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

- Heating flow G 1" 1/2
 - Heating return (second return from radiator circuits or from DHW calorifier) G 1" 1/2
 - Low flue outlet (option) Ø 110 mm
 - Heating return G 1" 1/2
 - Flue connection Ø 110 mm
 - Oil supply G 3/8"
 - Condensate evacuation
- (1) Feet adjustable from 0 to 20 mm
(2) In case of mounting the oil filter with deaerator inside the boiler

(mm)	PFC 45	PFC 60
A	1266	1545
B	1404	1683
C	833	1013
D*	1066	1345
D1*	1006	1285
D2*	976	1226

* possibility of oil filter mounting



PFC_F0052

TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 85°C
Max. operating pressure: 3 bar

• Thermostat: 30 to 85°C adjustable
• Safety thermostat: 105°C

• Classification: B₂₃, B_{23P}
• NOx classification: 3

MODEL

	PFC	45	60
Nominal output at 50/30°C	kW	46.5	61
Efficiency at ...%	- 100 % at average temp. 70°C - 30 % at return temp. 30°C	98.2	98.1
output and ...°C water temp.		102.9	102.8
Seasonal space heating efficiency (without regulation)	%	90	90
Seasonal space heating efficiency (with outdoor sensor)	%	92	92
Useful output range at	- 50/30°C	29.0-46.5	37.9-61.0
	- 80/60°C	27.4-44.5	35.9-58.4
Water content	l	52	65
Water flow at ΔT = 20 K	m ³ /h	1.936	2.625
Max. flue gas mass flow rate	kg/h	67	94
Stand-by losses at ΔT = 30 K	W	128	150
Auxiliary electrical power at Pn (without pump)	W	320	440
Standby electrical power	W	9	9
Flue gas pressure available	mbar	0.47	0.84
Net weight	kg	155	175

Values at nominal output and CO₂=12% on fuel oil

MODEL

	PFC	45	60
Package		MV108	MV109
Ref.		7678745	7678802

FUEL OIL

FOR MODULENS O® PRO PFC

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

	PACKAGE	REF
Condensates neutralisation station	FM155	100004290
Spare granules for neutralisation station	FM156	100004291
Neutralisation station holder	FM157	100004292
Lift pump	FM158	100004293
Decoupling cylinder 60/60	GV45	100019346
Decoupling cylinder 80/60	GV46	100019347
Kit rear exit for PFC 45/60	MV102	7653437
Cable for modulating pump	MV147	7685372
Kit cascade second return	MV134	7672327
Non-return valve 110 for PFC 45/60 cascade	MV136	7677390
Non-return valve 100 for PFC 45/60 cascade	MV145	7680285
Flue gas system for cascade of PFC 45/60	MV146	7680288
Modulating pump (no PWM) for PFC 60	SA13	7630016
Modulating pump for PFC 45	EH651	7637223



DHW PRODUCTION

	PACKAGE	REF
• with independent calorifier		see chapter 08
• with independent solar calorifier		see chapter 10
DHW sensor	AD212	100000030



CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Circuit type	PFC...	DHW	direct	valve	direct + 1 valve	2 x valve	direct + 2 x valve	3 x valve
		DIEMATIC EVOLUTION control panel (1)(2)	1 x AD212	as standard	1 x AD199	1 x AD199	2 x AD199	1 x AD199 + 1 x AD249

(1) Each of the heating circuits can be completed in choice by a room thermostat.
(2) Cascade up to 8 boilers possible.

CONTROL UNITS OPTIONS

	PACKAGE	REF
Room thermostat:		
• Non-programmable room thermostat (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
Connected room thermostat:		
• SMART TC°, R-BUS (wire)	AD324	7691375
• SMART TC° RF (wireless)	AD341	7691377
• SMART TC° RF (wireless) for 2 nd circuit	AD342	7765144
Sensor:		
• Sensor for mixing valve	AD199	88017017
• DHW sensor	AD212	100000030
• Sensor for storage tank	AD250	100013305
• External sensor (radio) *	AD346	7776874
PCB + sensor for mixing valve	AD249	100013304
DIEMATIC BUS connecting cable	AD134	88017851
S-BUS cable:		
• 1.5 m with plug	AD308	7663618
• 12 m with plug	AD309	7663561
• 20 m with plug	AD310	7663619
S-BUS plug	AD321	7688305
Control unit VM DIEMATIC Evolution, wall-mounted	AD315	7676561
Communication gateway GTW08 L-BUS-ModBus	AD332	7721982
Communication gateway GTW21 L-BUS BACnet	-	7756023

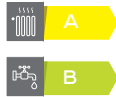
* Only with AD341 package



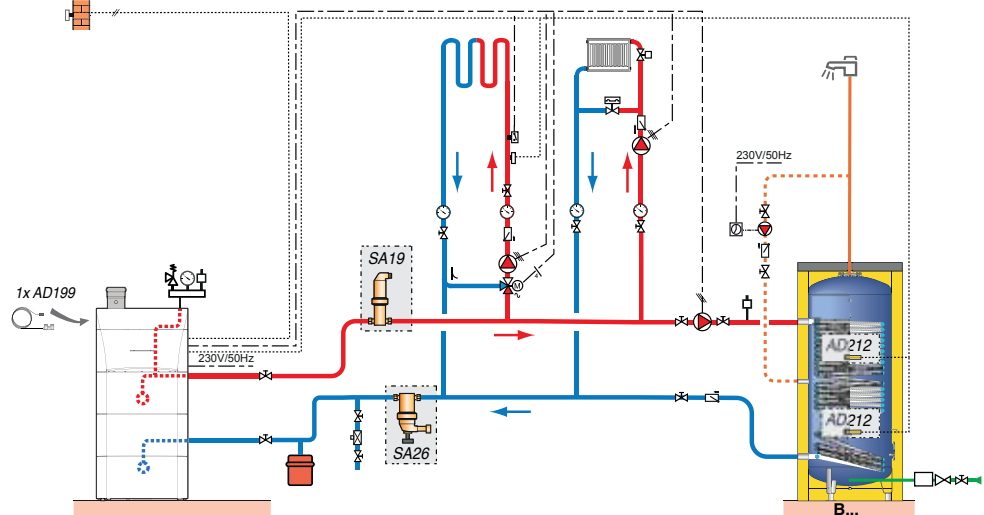
EXAMPLES OF INSTALLATION

FOR **MODULENS O® PRO PFC**

Modulens O® Pro PFC 45



- 1 direct circuit
- 1 circuit with mixing valve
- DHW circuit with independent calorifier



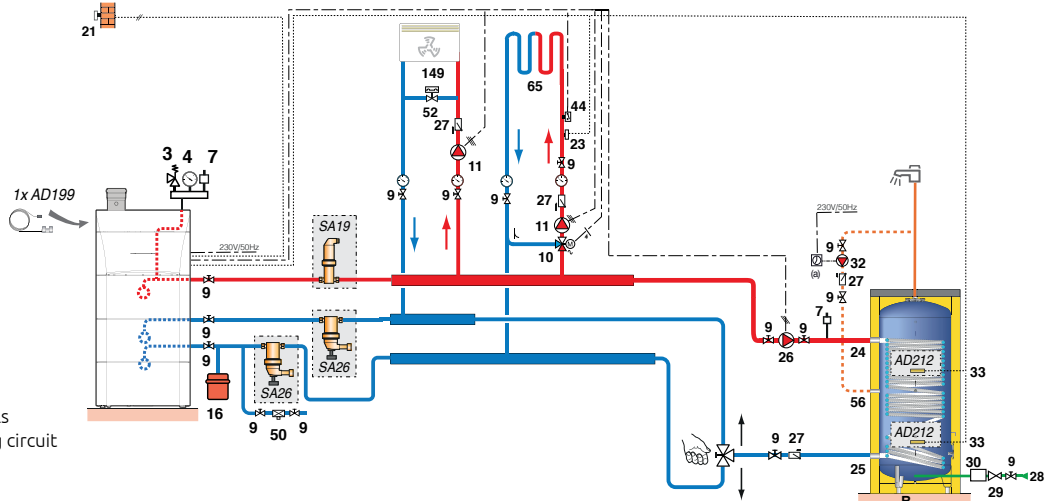
PFC_F0055

DESCRIPTION

	PACKAGE	REF
PFC 45 boiler	MV108	7678745
Sensor for mixing valve	AD199	88017017
Microbubble degasser	SA19	7650334
Sludge separators	SA26	7650378
DHW sensor	2 x AD212	2 x 100000030
DHW calorifier (tank) B1000	AJ80	7650482
Rigid casing	AJ97	7650499

Modulens O® Pro PFC 60

- 1 circuit with fan coils
- 1 underfloor heating circuit with mixing valve
- DHW circuit with independent calorifier



PFC_F0056A

DESCRIPTION

	PACKAGE	REF
PFC 60 boiler	-	7678802
Sensor for mixing valve	AD199	88017017
Microbubble degasser	SA19	7650334
Sludge separator	SA26	7650378
DHW sensor	2 x AD212	2 x 100000030
DHW calorifier (tank) B1000	AJ80	7650482
Rigid casing	AJ97	7650499

NOTES

Empty rectangular area for notes.

CAST IRON LOW TEMPERATURE BOILERS

RESIDENTIAL DOMESTIC SELECTION GUIDE

CFX



CFX...

CF/CFU EcoNox



CFU 22 CFU 29 CFU 36 CFU 46



Option



CF 22 CF 29 CF 36 CF 46



Option

	CFX...	CFU 22	CFU 29	CFU 36	CFU 46	CF 22	CF 29	CF 36	CF 46
Nominal output at 80/60°C (heating)	kw 27.1 to 81,6	22.4	29.8	37.2	46.4	22.4	29.8	37.2	46.4
Nominal output at 80/60°C (DHW production)	kw -	22.4 to 22.6	26.4	-	-	22.4 to 22.6	26.4	-	-
Energy class in heating	-								
Energy class in DHW	-	using calorifier 110SL or 160SL	using calorifier 160SL	-	-	using calorifier 110SL or 160SL	using calorifier 160SL	-	-
Specific rate according with EN 13203	l/min -	using calorifier 110SL : 22,4 using calorifier 160SL : 22,6	using calorifier 160SL : 26,4	-	-	using calorifier 110SL : 22,4 using calorifier 160SL : 22,6	using calorifier 160SL : 26,4	-	-
Burner	Fuel/Oil-Gas	Fuel/Oil	Fuel/Oil	Fuel/Oil	Fuel/Oil	Fuel/Oil-Gas	Fuel/Oil-Gas	Fuel/Oil-Gas	Fuel/Oil-Gas
For connection	chimney	chimney or forced flue connection	chimney or forced flue connection	chimney	chimney	chimney or forced flue connection	chimney or forced flue connection	chimney	chimney
Heating circuits									
Equipped with DHW calorifier	-	Option	Option	Option	Option	Option	Option	Option	Option
Connectivity (as option)	-	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°	Smart TC°
Page	151	152	152	152	152	154	154	154	154
Flue systems	-	See chapter 14							
Options and examples of installation	-	156							

FUEL OIL

CAST IRON BOILER TO BE FITTED WITH A FUEL OIL OR GAS BURNER **FOR HEATING**

EASYLIFE



CFX

CFX 2.27 to CFX 7.81 from 27,1 to 81,6 kW

+ point

Robustness and longevity thanks to the body of eutectic cast iron



Floor-standing fuel oil/gas boiler

• Packaging: 3 packages

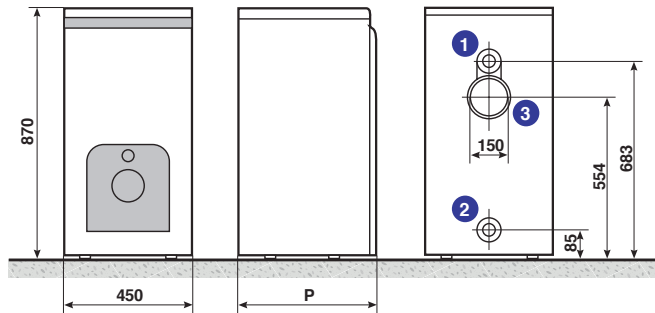
- For chimney connection: homologation B₂₃
- Main heating body in eutectic cast iron with integral 3-path flue gas discharge for silent running and a combustion chamber outlet
- Electro-mechanical control panel at the top directly accessible for main settings
- Boiler delivered in 3 packages, easy to assemble
- Compact to suit all configurations: 450 mm wide, the CFX fits anywhere

Not available for UE markets

OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

① Heating flow	R1"1/2
② Heating return	R1"1/2
③ Flue connection (mm)	Ø 150



(mm)	P
2-27	389
3-38	486
4-49	586
5-60	686
6-71	786

TECHNICAL SPECIFICATIONS

Low temperature

Min. outlet temperature: 40°C	• Max. operating temperature: 90°C	• Thermostat: 40 to 90°C adjustable	• Classification: B ₂₃
Min. return temperature: 20°C	• Max. operating pressure: 4 bar	• Safety thermostat: 110°C	

MODEL

	CFX	2.27	3.38	4.49	5.60	6.71	7.81
Nominal output (P _n) at 80/60°C	kW	27.1	38	48.9	59.7	70.6	81.6
Efficiency at ... % output	%	0.89	0.89	0.89	0.89	0.89	0.89
Nominal water flow, ΔT = 20 K	m ³ /h	1.168	1.637	2.187	2.573	3.043	3.517
Water content	l	19	23	27	31	35	39
Water resistance at ΔT = 20 K	mbar	1	2.5	3.5	5	8	13.3
Flue gas mass flow rate with natural gas	kg/h	46.8	64.8	82.8	100.8	118.8	136.8
Flue gas mass flow rate with oil	kg/h	54	75	97	119	140	162
Flue gas temperature	°C	217	220	222	224	226	225
Net weight	kg	121	148	175	203	230	257

Values at nominal output and CO₂ = 13% with domestic fuel oil

MODEL

	CFX	2.27	3.38	4.49	5.60	6.71	7.81
Boiler	Ref.	7730810	7730811	7730812	7730813	7730814	7730815

FUEL OIL

CAST IRON COMPACT BOILERS WITH INTEGRATED FUEL OIL JET BURNER FOR HEATING

EASYLIFE



CFU EcoNox

CFU 22 to 46 from 22.4 to 46.4 kW



Robustness and longevity thanks to the body of eutectic cast iron Adapted for Bio-Oil B10

Compact floor-standing fuel oil boiler.

- For chimney (B₂₃) and forced flue connection (FF connection) only for 22 and 29 executions with accessory MY921
- According to Erp directive: efficiency at 30% (at return temp. 30°C) up to 97.3%
- Heat exchanger in eutectic cast iron with 3-path flue way for silent running
- New compact integrated fuel oil jet burner, with low NOx and CO emissions to satisfy the strictest of requirements
- E-Pilot control panel factory mounted

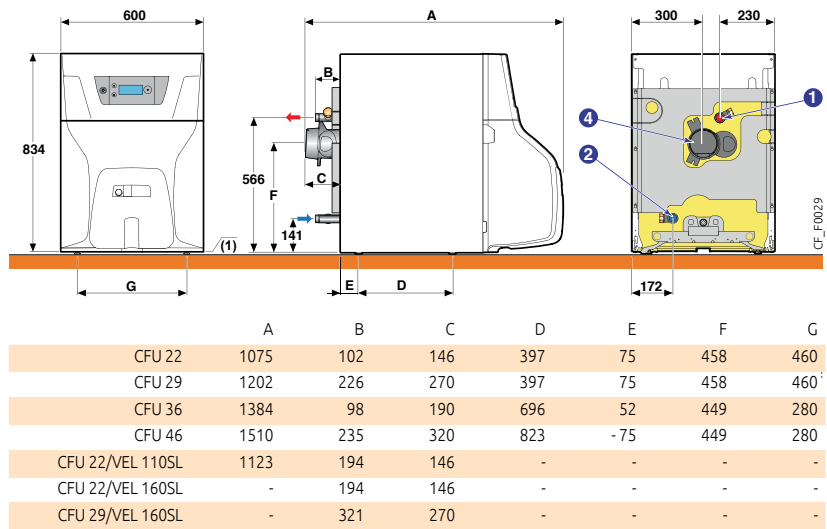
- Complete hydraulic set (Package MY445) available as accessory (see options on following pages)
- Packaging: 1 package

N° CE 0085CQ0004

OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

	CFU 22/29	CFU 36/46	CFU 22/ VEL 110SL	CFU 22/29/ VEL 160SL
① Heating flow	G1"	G1"	G1"	G1"
② Heating return	G1"	G1"	G1"	G1"
④ Flue connection (mm)	Ø 125	Ø 153	Ø 125	Ø 125
⑤ Domestic cold water inlet	-	-	G1"	G1"
⑥ DHW outlet	-	-	G1"	G1"
⑦ Circulation loop return	-	-	G3/4"	G3/4"
⑧ Drain tap connection for pipe (Ø int. in mm)	-	-	Ø 14	Ø 14
(1) Feet adjustable (mm):	- CFU 22/29: 9 - 35 - CFU 36/46: 19 - 45			



TECHNICAL SPECIFICATIONS

Low temperature

Max. operating temperature: 90°C	Thermostat 30 to 90°C adjustable	NOx classification: 3	Classification: B _{23P} , C ₁₃ , C ₃₃ with accessory MY921 for CFU 22 and 29
Max. operating pressure: 3 bar	Safety thermostat: 110°C		

model

	CFU	22	29	36	46
Nominal output at 80/60°C	kW	22.4	29.8	37.2	46.4
Efficiency at % PCI ...%	- 100% at average temp. - 70°C (1) - 30% at return temp. - 40°C (1)	%	93.3	93.1	92.7
water temp.		%	97.3	96.6	97
Seasonal space heating energy efficiency (without contribution of regulation)	%	86	86	86	86
Water content	l	24.5	30	35.5	41
Water flow at ΔT 30 K	m³/h	0.964	1.282	1.602	1.994
Flue gas mass flow rate at Pn 40/30°C	kg/h	36	48	59	76
Stand-by losses at ΔT = 30 K	W	83	95	109	122
Maximal DHW exchanged power	W	152	162	156	160
Standby electrical power	W	4	4	4	4
Flue gas pressure available	Pa	5	5	5	5
Net weight	kg	170	192	229	253

Values at nominal output and CO₂ = 13% on fuel oil (1) Average boiler temperature

MODEL

	CFU	22	29	36	46
PACKAGE	MY836	MY837	MY838	MY839	
REF	7798343	7798329	7798344	7798381	

FUEL OIL

CAST IRON BOILER TO BE FITTED WITH INTEGRATED FUEL OIL/GAS BURNER FOR HEATING

EASYLIFE



CF EcoNox

CF 22 to 46, from 22.4 to 46.4 kW



Robustness and longevity thanks to the body of eutectic cast iron

Compact floor-standing fuel oil boiler

- For chimney (B₂₃) and forced flue connection (FF connection) only for 22 and 29 executions with accessory MY921
- According to Erp directive: efficiency at 30% (at return temp. 30°C) up to 97.3%
- Heat exchanger in eutectic cast iron with 3-path flue way for silent running
- New compact integrated fuel oil jet burner, with low NOx and CO emissions to satisfy the strictest of requirements
- E-Pilot control panel factory mounted

- Complete hydraulic set (Package MY445) available as accessory (see options on following pages)

Packaging: 1 package

* With Burner:

- F 10N3 for CF 22 and CF 29
 - M100/2S for CF 36
 - M100/3S for CF 46
- See chapter 13

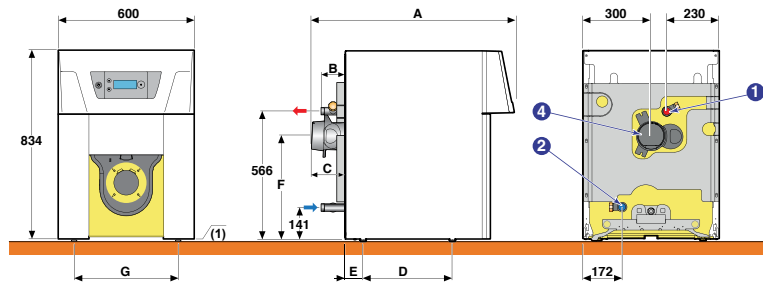
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OPTIONS: see following pages / BURNER: See chapter 13

MAIN DIMENSIONS (mm and inches)

	CF 22/29	CF 36/46	CF 22/ VEL 110SL	CF 22/29/ VEL 160SL
① Heating flow	G1"	G1"	G1"	G1"
② Heating return	G1"	G1"	G1"	G1"
④ Flue connection (mm)	Ø 125	Ø 153	Ø 125	Ø 125
⑤ Domestic cold water inlet	-	-	G1"	G1"
⑥ DHW outlet	-	-	G1"	G1"
⑦ Circulation loop return	-	-	G3/4"	G3/4"
⑧ Drain tap connection for pipe (Ø int. in mm)	-	-	Ø 14	Ø 14

(1) Feet adjustable (mm): - CF 22/29: 9 - 35
- CF 36/46: 19 - 45



	A	B	C	D	E	F	G
CF 22	890	102	146	397	75	458	460
CF 29	1017	226	270	397	75	458	460
CF 36	1214	98	190	696	52	449	280
CF 46	1342	225	320	823	-75	449	280
CF 22/VEL 110SL	936	194	146	-	-	-	-
CF 22/VEL 160SL	-	194	146	-	-	-	-
CF 29/VEL 160SL	-	321	270	-	-	-	-

TECHNICAL SPECIFICATIONS

Low temperature

Max. operating temperature: 90°C
Max. operating pressure: 3 bar

Thermostat 30 to 90°C adjustable
Safety thermostat: 110°C

NOx classification: 3

Classification: B_{23P},
C₁₃, C₃₃ with accessory
MY921 for CF 22 and 29

MODEL

	CF	22	29	36	46
Nominal output at 80/60°C	kW	22.4	29.8	37.2	46.4
Nominal heat load at Qn-Hi	kW	24	32	40	50
Efficiency at % PCI ...%	%	93.3	93.1	93.1	92.7
water temp.	%	97.3	96.6	97.0	96.7
Water content	l	24.5	30	35.5	41
Stand-by losses at ΔT = 30 K	W	83	95	109	122
Maximal DHW exchanged power	W	143	144	156	160
Standby electrical power	W	4	4	4	4
Flue gas pressure available	Pa	5	5	5	5
Net weight	kg	175	203	211	229

Values at nominal output and CO₂ = 13% on fuel oil (1) Average boiler temperature

MODEL

	CF	22	29	36	46
PACKAGE		MY711	MY712	MY713	MY714
REF		7730533	7730612	7730624	7737445

FUEL OIL

CAST IRON BOILER TO BE FITTED WITH INTEGRATED FUEL OIL/GAS BURNER FOR HEATING AND DHW PRODUCTION



OPTIONS: See next page
BURNER: See chapter 13

CF EcoNox CF 22/VEL 110SL, 22.4 kW



Modular design boiler with 110 litres enamelled coil tank in "Standard load" positioned under the boiler to form a uniform "column"

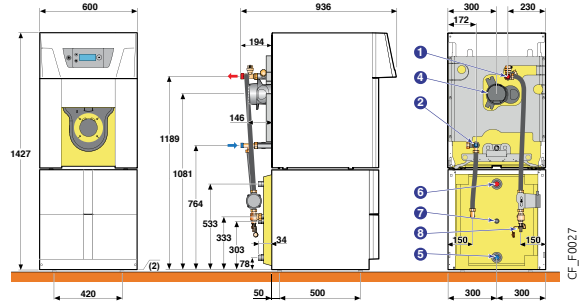
- Protection of DHW tank through magnesium anode
- Boiler /tank connecting set with modulating load pump with high energy efficiency index EEI < 0.23, DHW sensor delivered

- Adjustable feet
- **Packaging:** 3 packages

* with burner ref. type F 10N3

point

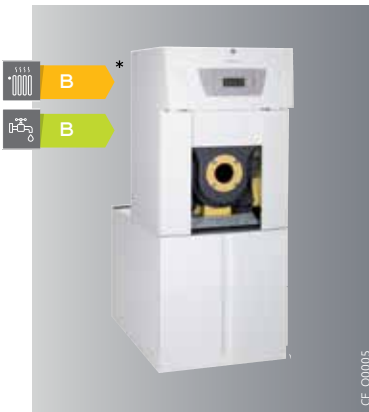
Compact solution with integrated DHW tank



MODEL

Boiler CF 22
Calorifier EL110SL
Boiler - storage tank connection kit

CF	22 /VEL 110SL
PACKAGE	REF
MY711	7730533
ER590	7609915
MY925	7744614



OPTIONS: See next page
BURNER: See chapter 13

CF EcoNox CF.../VEL 160SL, 22.4 and 29.8 kW



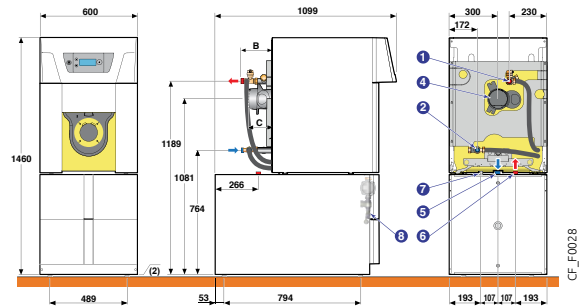
Modular design boiler with 160 litres enamelled, "standard load", DHW tank with coil placed horizontally beneath the boiler, which can be positioned against the wall to build an attractive uniform column taking up less space in terms of height and depth.

- Protection of DHW tank through magnesium anode

- Boiler /calorifier connecting set with modulating load pump with high energy efficiency index EEI < 0.23, DHW sensor delivered,
 - Adjustable feet
 - **Packaging:** 3 packages
- * with burner ref. type F 10N3.

point

High DHW performances



MODEL

Boiler CF 22
Boiler CF 29
Calorifier EL160SL
Boiler - storage tank connection kit

CF	22/VEL 160SL	29/VEL 160SL
PACKAGE	REF	REF
MY711	7730533	-
MY712	-	7730612
ER592	7616405	7616405
MY925	7744614	7744614

TECHNICAL SPECIFICATIONS DOMESTIC HOT WATER (boiler see previous page)

Max. operating temperature DHW: 95°C ; Max. operating pressure DHW: 10 bar

MODEL

	CF	22/VEL 110SL	22/VEL 160SL	29/VEL 160SL
Nominal output boiler	kW	22.4	22.4	29.8
DHW calorifier capacity	L	110	160	160
DHW exchanged power	kW	22.4	22.6	26.4
Specific rate at $\Delta T = 30$ K (compl. with EN 13203-1)	L/min	18.5	24	25
Flow per hour at $\Delta T = 35$ K	L/h	550	555	650
Flow over 10 min at $\Delta T = 30$ K	L/10 min	190	245	250
Coefficient of heat losses	W/K	1.46	1.52	1.52
Net weight	kg	249	265	293

DHW performances at room temperature at Pn: 20°C, cold water temp. at Pn: 10°C, temp. hot water at Pn: 45°C, primary hot water: 80°C, storage temp.: 60°C

OPTIONS

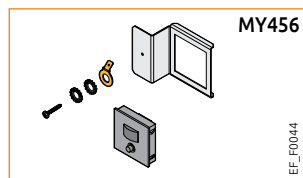
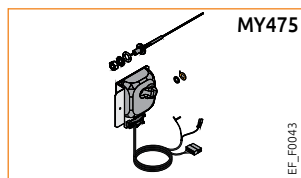
FOR CF/CFU ECONOX AND CFX

BOILERS ACCESORIES

	PACKAGE	REF
► For CF/CFU EcoNox only		
Fuel filter deaerator «Flocotop» (recommended)	MT11	100019100
Hydraulic equipment set completely insulated to be integrated in the boiler. Consists out of: an 18 liter expansion tank, a modulating high-efficiency heating pump with EEI <0.23, a non-return flap, an air vent, a safety valve and a manometer	MY445	7629652
Forced flue equipment kit 22/29	MY921	7742057

DHW PRODUCTION

	PACKAGE	REF
► For CF/CFU EcoNox only		
with independent calorifier	See chapter 08	
with solar calorifier	See chapter 10	
Calorifier EL110SL	ER590	7609915
Calorifier EL110SL	ER592	7616405
Boiler storage tank connection kit	MY925	7744614
DHW temperatur sensor	AD212	100000030
Impressed current anode kit "ACI"	MY475	7629841
Magnesium anode tester	MY456	7629902
Connecting kit CF/CFU boiler/calorifier BLC/BPB or solar calorifier UNO	ER599	7639495

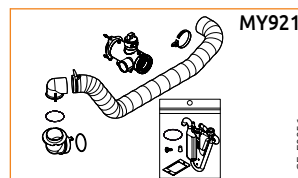


HYDRAULIC MODULES

see chapter 14

BURNER

	PACKAGE	REF
► For CF/CFU EcoNox and CFX		
Fuel oil burner:		
• M 100/RS for CF 22	-	88027318
• M 100/1S for CF 22 and CFX 2.27	-	88027319
• M 100/2S for CF 29, 36 and CFX 3.38	-	88027320
• M 100/3S for CF 46, CFX 4.49 and CFX 5.60	-	100005100
• M 201/2S for CFX 6.71 and CFX 7.81	-	...
Gas burner G 110N for CF 22 to 46	-	7724961



CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Control panel	Circuit type	Circuit diagrams					
		DHW	direct	valve	direct + valve	direct + 2 x valve	2 x valve
E-pilot	CFU/CF 22/29	AD212 (1)	as standard (2)	MY440 (2)	MY440 (2)	no	
	CFU/CF 36/46	AD212 (1)	as standard (2)	MY440 (2)	MY440 (2)	2 x MY440 (2)	

Regulation according to the room temperature:

(1) DHW sensor delivered with tanks EL 110SL and EL 160SL.

(2) To be complemented where needed by:

- if you want a control system that operates according to room temperature: room thermostat (package AD337, AD338, AD140, AD304, AD303 or AD324)
- if you want a control system that operates according to outside temperature: - outside sensor (package FM46)
- outside sensor (package FM46) + room thermostat (package AD337, AD338, AD140, AD304, AD303 or AD324)

MODEL

	PACKAGE	REF
► For CF/CFU EcoNox only		
Connected room thermostat:		
• SMART TC°, R-BUS (wire)	AD324	7691375
• SMART TC° RF (wireless)	AD341	7691377
• SMART TC° RF (wireless) for 2 nd circuit	AD342	7765144
Modulating room thermostat:		
• Programmable with energy metering function (wireless)	AD303	7609762
• Programmable with energy metering function (wire)	AD304	7609763
Sensor:		
• Outside sensor	FM46	85757741
• DHW sensor	AD212	100000030
• Outside sensor (wireless) only in combination with the AD341*	AD346	7776874
PCB + sensor for 1 circuit with mixing valve	MY440	7628142

* need to control the connected room sensor AD341

MODEL

	PACKAGE	REF
► For CF/CFU/CFX EcoNox		
Room thermostat:		
• Non-programmable room thermostat (wire)	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818



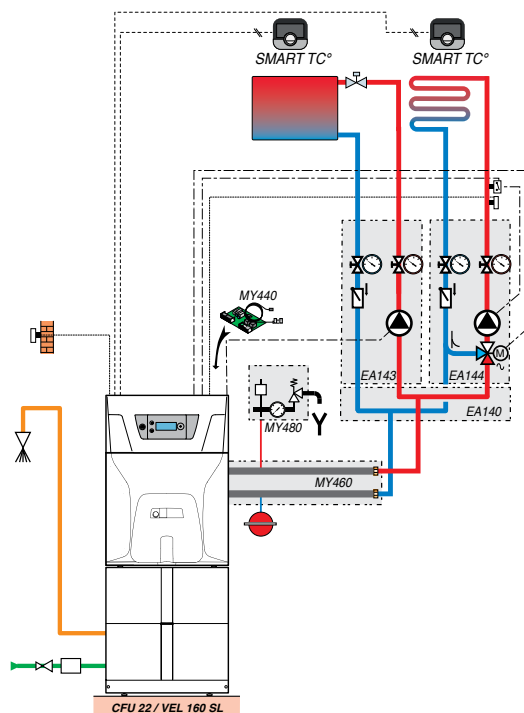
EXAMPLES OF INSTALLATION

FOR CFU ECONOX

CFU EcoNox CFU 22/VEL 160SL



- 1 direct circuit "radiators"
- 1 underfloor heating circuit with mixing valve



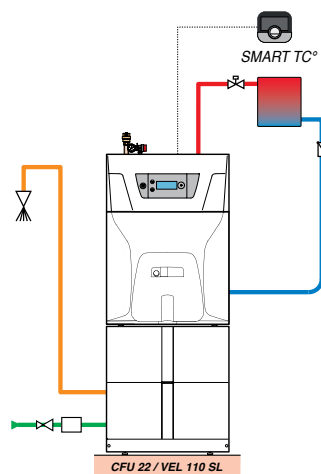
DESCRIPTION

	PACKAGE	REF
CFU 22 boiler	MY836	7798343
Calorifier EL 160 SL	ER592	7616405
Boiler - storage tank connection kit	MY925	7744614
PCB + sensor for 1 circuit with mixing valve	MY440	7628142
Options		
- Outside sensor	FM46	85757741
- 2 x Modulating roomthermostat (wire) with energy metering	2 x AD324	2 x 7691375
- Hydraulic module with a high performance energy pump for 1 direct circuit	EA143	100020167
- Hydraulic module with a high performance energy pump for 1 direct circuit with mixing valve	EA144	100020168
- Insulated collector for 2 or 3 hydraulic modules	EA140	100020164
- Connection kit boiler/collector for right connection	MY460	7629813
- Hydraulic safety kit	MY480	7629826

CFU EcoNox CFU 22/VEL 110SL



- 1 direct circuit "radiators"



DESCRIPTION

	PACKAGE	REF
Boiler CFU 22	MY836	7798343
Calorifier EL 110 SL	ER590	7609915
Boiler - storage tank connection kit	MY925	7744614
Options		
- Connected room thermostat SMART TC®, R-BUS (wire)	AD324	7691375

CF_F0039

O5

FUEL OIL

CF_F0040

COMMERCIAL RANGE SELECTION GUIDE

GT 220



		GT 220 B (1)	GT 220 D (1)	GT 220 B (1)	GT 220 D + AD217 (1)
Nominal output at 80/60°C (heating)		50 to 100	50 to 100	78 to 100	78 to 100
Heating body material	• cast iron	-	-	-	-
	• steel	-	-	-	-
Control panel to manage fuel/oil gas burner	• 1 or 2 stage	X	X	-	-
	• 2 stages or modulating	-	-	X	X
To chimney connection		X	X	X	X
Control panel to manage heating and DHW circuits		see p161	see p161	see p161	see p161
DHW production with independent calorifier		see chap. 8	see chap. 8	see chap. 8	see chap. 8
Connectivity Modbus RS485		-	-	-	-
Page		160	160	160	160
Flue systems			See chapter 14		
Options and examples of installations			161		

(1) European Union: boilers for the replacement of an identical device marketed before 01/01/18 in EU

* Only with Diematic m-3 panel

GT 330/430/530



GT 330
(1)



70 to 330

X

-

X

see p168

see chap. 9

X*

163



GT 430
(1)



300 to 780

X

-

B3 and Diematic-m3

B3 and Diematic-m3

X

see p168

see chap. 9

X*

164



GT 530



406 to 1450

X

-

X

see p168

see chap. 9

X*

165

See chapter 14

167

FUEL OIL / GAS

CAST IRON BOILERS TO BE FITTED WITH A FUEL OIL OR GAS BURNER FOR HEATING

PROJECT



GT220_00003

GT 220 From 40 to 100 kW



Fuel oil / gas boiler, low temperature

- Annual operating efficiency up to 94%
- Heating body of eutectic cast iron
- Large combustion chamber and 3-path flue way
- Choice of 5 control panels with DHW priority function (except X control panel):
 - For controlling a 1-stage burner:
 - X: Simplified
 - B: Basic, operation by boiler thermostat
 - D: Diematic 3, with electronic programmable regulation according to the outside temperature

- For controlling a 2-stage or modulating burner (GT 226 to GT 228 only):
 - B2: equivalent to B control panel
 - D: + AD217: DIEMATIC 3 + PCB 2-stage / modulating / 3-way valve allowing the control of a circuit with mixing valve (outlet sensor optional)
- Fuel oil or gas burner optional
- Packaging: 3 or 4 packages

point

Control panels equipment allowing a wide field of application

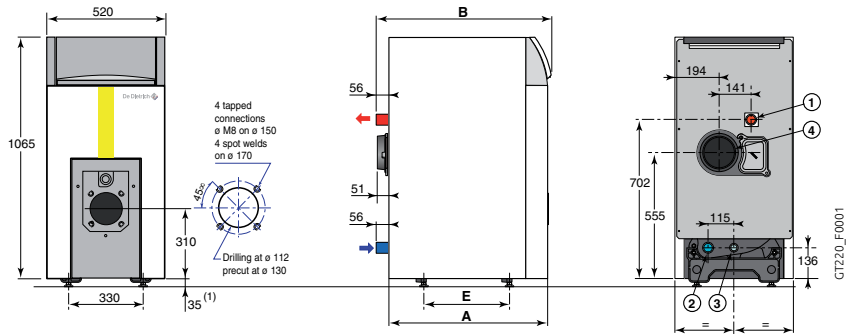
N° CE 1312BR4657

OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

- ① Heating flow
 - ② Heating return
 - ③ Filling and drain opening Rp 3/4
 - ④ Flue connection Ø C
- (1) Feet adjustable de 35 à 50 mm.
R: Threading
Rp: Tapped connection

GT	A	B	Ø C	① ②	Ø E
224	700	772	153	R 1" 1/4	380
225	827	899	153	R 1" 1/4	507
226	954	1026	180	R 1" 1/2	634
227	1081	1153	180	R 1" 1/2	761
228	1208	1280	180	R 1" 1/2	888



TECHNICAL SPECIFICATIONS

Low temperature

Min. outlet temperature: 30°C
Min. return temperature: 20°C
Max. operating temperature: 100°C

Max. operating pressure: 4 bar
(up to 6bar on request)

Thermostat: 30 to 90°C adjustable
Safety thermostat: 110°C

MODEL

	GT	224	225	226	227	228
Nominal output	kW	50	64	78	92	100
Efficiency at ... %	%	- 100% at 70°C	91.7	91.8	92.0	91.9
output and ...°C	%	- 30% at 50°C	93.9	93.7	93.6	93.8
average temp.	%	- 30% at 40°C	94.1	94.3	94.6	94.7
Water flow at ΔT = 20 K	m³/h	2.151	2.754	3.356	3.959	4.303
Stand-by losses at ΔT = 30 K	W	118	139	160	181	202
% losses through the walls	%	64	68	70	72	73
Auxiliary electrical power (without pump)						
with DIEMATIC 3 control panel	W	10	10	10	10	10
Usefull output range	kW	40-50	50-64	64-78	78-92	92-100
Water content	l	36	43	50	57	64
Water resistance at ΔT = 20 K	mbar	6.2	10.0	14.9	20.7	24.3
Flue gas circuit volume	l	54	68	83	97	111
Combustion chamber						
- Ø equiv./depth	mm	309/446	309/573	309/700	309/827	309/954
- volume	l	33	42	51	60	69
Flue gas mass flow rate	kg/h	83	106	129	152	166
- domestic fuel oil	kg/h	91	117	143	168	183
- natural gas	kg/h	91	117	143	168	183
Combustion chamber pressure	mbar	0.2-0.5	0.3-0.6	0.3-0.8	0.4-0.8	0.6-0.9
Net weight	kg	218	257	297	336	375

Values at nominal output CO₂: 13% with domestic fuel oil and 9% with natural gas, draught at the nozzle = 0

MODEL

	GT	224	225	226	227	228
GT220 X	Ref.	100004280	100004281	100004282	100004283	100004284
GT220 B	Ref.	100004285	100004286	100004287	100004288	100004289
GT220 D	Ref.	100004313	100004314	100004315	100004316	100004317
GT220 B2	Ref.	-	-	100004300	100004301	100004302
GT220 D + AD217 (1)	Ref.	-	-	100004391	100004392	100004393

Factory assembled body as standard. On request, body delivered in bulk.

(1) Package AD217 is included but do not forget to order the AD199 sensor if a valve circuit is connected.

OPTIONS

FOR GT 220

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

BOILERS ACCESORIES

	PACKAGE	REF
Recommended assembly tool for body in bulk:		
• JDS (1) lg 1400 mm		88017706
or		
• JD-TE Plus		100018991

DHW PRODUCTION

	PACKAGE	REF
• with independent calorifier		see chapter 08
• with solar calorifier		see chapter 10
DHW temperature sensor	AD212	100000030
Connecting kit to independent or solar boiler:		
• GT 224 and 225	EA117	100007835
• GT 226, 227 and 228	EA118	100007836

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Circuit type	Boiler self-standing or boiler 1 of a cascade				Boiler 2 to 10 of a cascade by additional boiler (2)				
	DHW	direct	2 x direct	valve or direct + 1 valve	2 x valve or direct + 2 x valve	valve	2 x valve		
Control panel for controlling a 1-stage burner	X	GT220 X	no	as standard	no	no	no	no	no
	B	GT 220 B	AD212	as standard	2 x AD140, 137 ou 200	no	no	no	no
	D (1)	GT 220 D	AD212	as standard	1 x FM48	1 x FM48	2 x FM48	1 x FM48 (3)	2 x FM48 (3)
Control panel for controlling a 2-stage or modulating burner	B2	GT220 B2	AD212	as standard	2 x AD140, 137 or 200	no	no	no	no
	D + AD217 (1)	GT220 D + AD 217	AD212	as standard	1 x AD199	1 x AD199	1 x AD199 + 1 x FM48	1 x AD199	1 x AD199 + 1 x FM48

(1) Each of the circuits "heating" can be completed in choice by a remote control AD285, AD284 + AD252 or FM52.

(2) Do not forget to order the "cascade outlet" sensor: package AD212 or AD218.

(3) Cascade up to 2 boilers with more than 2 and 10 boilers, it is necessary to incorporate one additional AD217 PCB per boiler.

CONTROL UNITS OPTIONS

	PACKAGE	REF
• for X, B and B2 control panel		
Room thermostat:		
• non programmable	AD140	88017859
• Programmable (wired with battery)	AD337	7768817
• Programmable (wireless)	AD338	7768818
DHW temperature sensor (only B, B2, control panel)	AD212	100000030

CONTROL UNITS OPTIONS

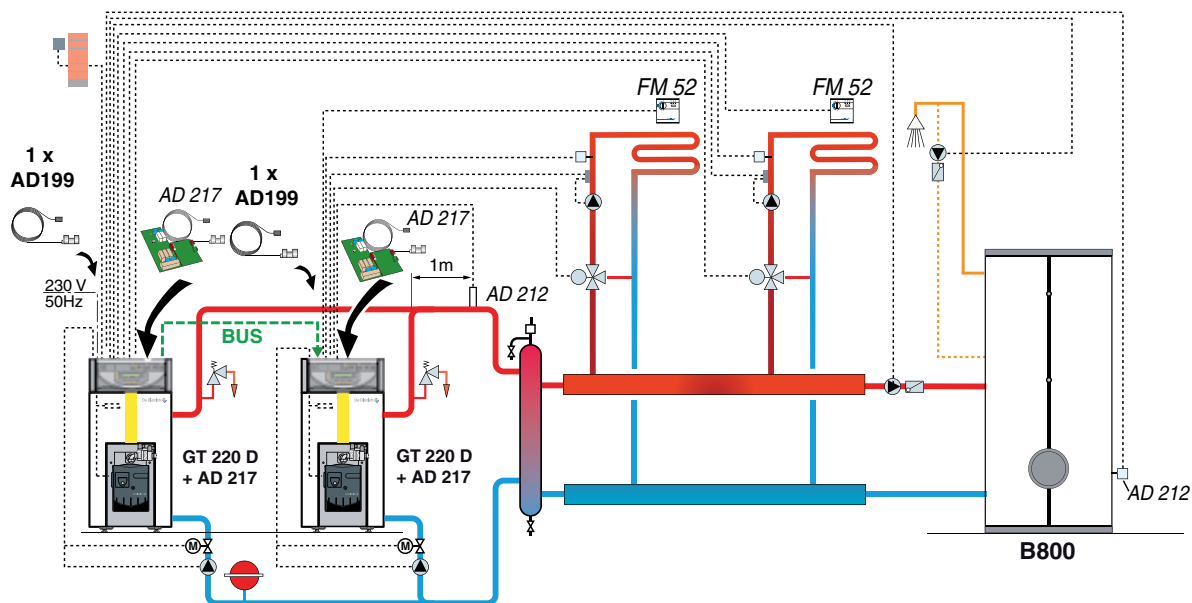
	PACKAGE	REF
• for D (DIEMATIC 3) control panel		
Cascade outlet sensor or DHW sensor	AD212	100000030
PCB + sensor for 1 circuit with mixing valve	FM48	85757743
Interactive remote control CDI D. iSystem	AD285	100018924
Interactive remote radio control CDR D. iSystem (without radio transmitter)	AD284	100018923
Radio outside temperature sensor	AD251	100013306
Boiler radio module (radio transmitter)	AD252	100013307
Simplified remote control with room sensor	FM52	85757747
BUS cable connection 12 m	AD134	88017851
Flue gas temperature sensor	FM47	85757742
Dip sensor with sensor tube	AD218	100004781
Set of sensors for storage tank	AD160	88017887
2 stage/modulating/3VW PCB	AD217	100004294
Flow sensor downstream of the valve	AD199	88017017

EXAMPLES OF INSTALLATION

FOR GT 220

GT 220

- 2 x (GT 220 + AD217)
- Burner M 200 (2 stages)
- B 800 independent DHW calorifier
- 2 circuits with mixing valve



DESCRIPTION

	PACKAGE	REF
2 x GT 226 D + AD217	-	2 x 100004391
2 x burners M 202/2 S (2 stages)	-	2 x 88027314
BUS cable connection	AD134	88017851
Cascade outlet sensor	AD212	100000030
2 x flow sensor downstream of the valve	2 x AD199	2 x 88017017
B 800 independent DHW calorifier	-	89759840
DHW sensor	AD212	100000030
Option		
- 2 x simplified remote control	2 x FM52	2 x 85757747

GT220_F0015

FUEL OIL / GAS

CAST IRON BOILERS TO BE FITTED WITH A FUEL OIL / GAS BURNER FOR HEATING

PROJECT



GT330_00001

GT 330 from 70 to 330 kW



Fuel oil / gas boiler, low temperature

- **Min. flow temperature:** 30°C
- Heating body elements of eutectic cast iron
- Pressurized furnace high volume combustion and low gas resistance
- Hinged door reversible
- Reinforced insulation, low stand-by losses
- **Choice of 4 control panels** with DHW priority function (except standard control panel):
 - **Standard:** for controlling a 1-stage or 2-stage burner, control cabinet in the boiler room
 - **B3:** for controlling a 1-stage or 2-stage burner, operation by boiler thermostat

point

The solution in renovation alone or in cascade

- **Diematic-m3:** with electronic programmable regulation according to the outside temperature, for controlling a 1-stage, 2-stage or modulating burner, can control up to 10 boilers in cascade
- **K3:** only operating in association with DIEMATIC-m3 to control the "secondary" boilers
- Fuel oil or gas burner optional
- **Packaging:** 2 possibilities
 - Heating body in bulk + 9 packages
 - Heating body assembled + 7 packages

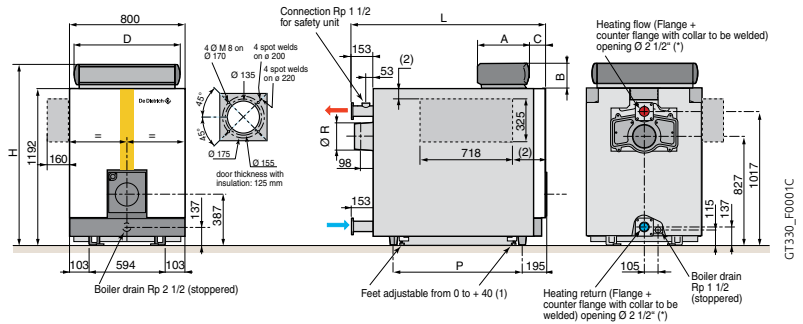
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OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

- (1) By using "adjustable feet", adjustment range from 0 to 40mm
- (2) Lateral control panel (specify when ordering): its position on 1 of the lateral panels is left to the fitter's discretion

R: Threading
Rp: Tapped connection
(*) Ø 2" optional



GT330_F0001C

Control panel	A	B	C	D	H
Standard	130	105	45	738	1297
B3, K3 and DIEMATIC-m 3	355	190	45	755	1387

	GT	334	335	336	337	338	339
L	991	1151	1311	1471	1631	1791	
P	490	650	810	970	1130	1290	
ØR	180	180	180	200	200	200	

TECHNICAL SPECIFICATIONS

Low temperature

Min. outlet temperature: 30°C
Min. return temperature: 20°C

• Max. operating temperature: 90°C
• Max. operating pressure: 6 bar (up to 8 bar on request)

• Thermostat: 30 to 85°C adjustable
• Safety thermostat: 110°C

MODEL

	GT	334	335	336	337	338	339
Useful output	kW	70-105	105-140	140-180	180-230	230-280	280-330
Nominal input	kW	79.5-119.3	119.3-159.1	159.1-204.5	204.5-261.4	261.4-318.2	318.2-375.0
Water content	l	96	116	136	156	176	196
Water resistance at ΔT = 20 K	mbar	3.5	6.2	11.5	16.9	25.0	36.0
Flue gas circuit volume	m³	0.163	0.206	0.249	0.292	0.335	0.378
Combustion chamber	- equivalent Ø	mm	377	377	377	377	377
	- depth	mm	571	731	891	1051	1211
	- volume	m³	0.096	0.122	0.148	0.174	0.200
Flue gas mass flow rate	- domestic fuel oil	kg/h	178	238	306	391	475
	- natural gas	kg/h	187	250	321	410	499
Combustion chamber pressure	mbar	0.3	0.6	1.1	1.6	2.2	2.5
Flue gas temperature	°C	< 210	< 210	< 210	< 210	< 210	< 210
Net weight	kg	612	736	846	981	1103	1230

Values at nominal output, CO₂: 13% with domestic fuel oil and 9.5% with natural gas, draught at the nozzle = 0

MODEL

	GT	334	335	336	337	338	339
GT330	Ref.	100004537	100004538	100004539	100004540	100004541	100004542
GT330 B3 (1)	Ref.	100004543	100004544	100004545	100004546	100004547	100004548
GT330 K3 (1) (2)	Ref.	100004549	100004550	100004551	100004552	100004553	100004554
GT330 DIEMATIC-m 3 (1)	Ref.	100004555	100004556	100004557	100004558	100004559	100004560

Heating body in bulk as standard. On request, body can be assembled in factory.

(1) Control panel also available in a "lateral" version on request.

(2) GT 330 K3 is only operating in association with GT 330 DIEMATIC-m3.

FUEL OIL / GAS

CAST IRON BOILERS TO BE FITTED WITH A FUEL OIL OR GAS BURNER FOR HEATING



Reliability and longevity

PROJECT



GT 430 From 300 to 780 kW



Fuel oil / gas boiler, low temperature

- Min. flow temperature: 40°C
- Heating body elements in eutectic cast iron
- Pressurised furnace high volume combustion and low gas resistance
- Hinged door reversible
- Reinforced insulation, low stand-by losses
- Delivered with a preset flow switch
- Choice of 4 control panels with DHW priority function (except standard control panel):
 - Standard: for controlling a 1-stage or 2-stage burner, control cabinet in the boiler room
 - B3: for controlling a 1-stage or 2-stage burner, operation by boiler thermostat

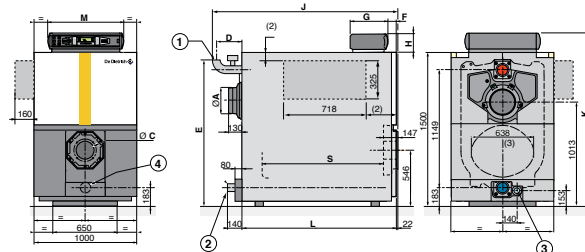
- Diematic-m3: with electronic programmable regulation according to the outside temperature, for controlling a 1-stage, 2-stage or modulating burner, can control up to 10 boilers in cascade
- K3: only operating in association with DIEMATIC-m3 to control the "secondary" boilers
- Fuel oil or gas burner optional
- Packaging:** 2 possibilities
 - Heating body in bulk + 6 to 8 packages depending on the model
 - Heating body assembled + 6 to 8 packages depending on the model

N° CE 1312AQ0951

OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

- Heating flow Ø B (to be welded)
 - Heating return Ø B (to be welded)
 - Boiler drain Rp 2" (stoppered)
 - Flush opening Rp 2" 1/2 (stoppered)
- (2) Lateral control panel (specify ordering): its position on 1 of the lateral panels is left to the fitter's direction.
 (3) Inscribed Ø of the combustion chamber: front section: Ø 455mm intermediate element: Ø 530mm, Ø equivalent furnace: 573mm
 R: Threading
 Rp: Tapped connection
 (*) Ø 2" optional



Control panel	F	G	H	K	M
standard	127.5	130	105	1605	738
B3, K3 and DIEMATIC-m3	113.5	355	190	1690	755

GT	Ø A ext.	Ø B	Ø C	D	E	J	L	S
430-8	250	2"1/2	full plate	235	1427	1800	1505	1183
430-9	250	2"1/2	precut at	235	1427	1950	1665	1343
430-10	250	2"1/2	Ø 135, 175,	235	1427	2120	1825	1503
430-11	300	3"	190, 240,	254	1447	2305	1985	1663
430-12	300	3"	250 or 290	254	1447	2465	2145	1823
430-13	300	3"	on request	254	1447	2625	2305	1983
430-14	300	3"		254	1447	2785	2465	2143

TECHNICAL SPECIFICATIONS

Low temperature

- Min. outlet temperature: 40°C
- Min. return temperature: 20°C
- Max. operating temperature: 90°C
- Max. operating pressure: 6 bar (up to 8 bar on request)
- Thermostat: 40 to 85°C adjustable
- Safety thermostat: 110°C

MODEL

	GT	430-8*	430-9*	430-10	430-11	430-12	430-13	430-14
Useful output	kW	300-390	390-450	450-540	540-600	600-670	670-720	720-780
Nominal input	m³/h	333.7-443.3	443.3-511.4	511.4-613.6	613.6-681.8	681.8-761.4	761.4-818.2	818.2-886.4
Water content	l	366	409	452	495	538	581	624
Water resistance at ΔT = 20 K	mbar	8	12	20	25	33	40	49
Flue gas circuit volume	m³	0.563	0.638	0.712	0.787	0.860	0.934	1.008
Combustion chamber	- inscribed Ø	mm	530	530	530	530	530	530
	- depth	mm	1183	1343	1503	1663	1823	1983
	- volume	m³	0.310	0.354	0.396	0.439	0.481	0.523
Flue gas mass flow rate	- domestic fuel oil	kg/h	650	750	900	1000	1116	1200
	- natural gas	kg/h	700	810	972	1080	1207	1297
Combustion chamber pressure	mbar	1.1	1.5	2	2.5	2.5	2.5	3.5
Flue gas temperature	°C	< 220	< 220	< 220	< 220	< 220	< 220	< 220
Net weight	kg	1802	2072	2238	2454	2638	2880	3057

Values at nominal output, CO₂: 13% with domestic fuel oil and 9.5% with natural gas, draught at the nozzle = 0

MODEL

	GT	430-8*	430-9*	430-10	430-11	430-12	430-13	430-14
GT430	Ref.	100006915	100006916	100006917	100006918	100006919	100006920	100006921
GT430 B3 (1)	Ref.	100006908	100006909	100006910	100006911	100006912	100006913	100006914
GT430 K3 (1) (2)	Ref.	100006894	100006895	100006896	100006897	100006898	100006899	100006900
GT430 DIEMATIC-m 3 (1)	Ref.	100006901	100006902	100006903	100006904	100006905	100006906	100006907

Heating body in bulk as standard. On request, body can be assembled in factory

(1) Control panel also available in a "lateral" version on request.

(2) GT 430 K3 is only operating in association with GT 430 DIEMATIC-m3.

* Boilers for replacing identical products.

FUEL OIL / GAS

CAST IRON BOILERS TO BE FITTED WITH A FUEL OIL OR GAS BURNER FOR HEATING

PROJECT



GT530_00001

GT 530

Models GT 530-7 to GT 530-16 from 406 to 928 kW



point

Accessibility easy boiler room:
delivery in separate elements

Fuel oil / gas boiler

- Heating body of eutectic cast iron
- Pressurised furnace high volume combustion and low gas resistance
- Burner door on reversible hinge
- Reinforced insulation, low stand-by losses
- Casing with walkway
- Delivered with a preset flow switch
- Choice of 4 control panels with DHW priority function (except standard control panel):
 - **Standard:** for controlling a 1-stage or 2-stage burner, control cabinet in the boiler room
 - **B3:** for controlling a 1-stage or 2-stage burner, operation by boiler thermostat

- **Diematic-m3:** with electronic programmable regulation according to the outside temperature, for controlling a 1-stage, 2-stage or modulating burner, can control up to 10 boilers in cascade
- **K3:** only operating in association with DIEMATIC-m3 to control the "secondary" boilers
- Fuel oil or gas burner optional
- **Packaging:** 2 possibilities
 - Heating body in bulk + 9 to 14 packages depending on the model
 - Heating body assembled + 9 to 14 packages depending on the model

N° CE 1312AQ0954

OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

- ① Heating flow Ø E (to be welded)
- ② Heating return Ø E (to be welded)
- ③ Boiler drain Rp 3/4"
- ④ Flow switch (delivered)
- ⑤ Length required for maintenance and cleaning = 850mm

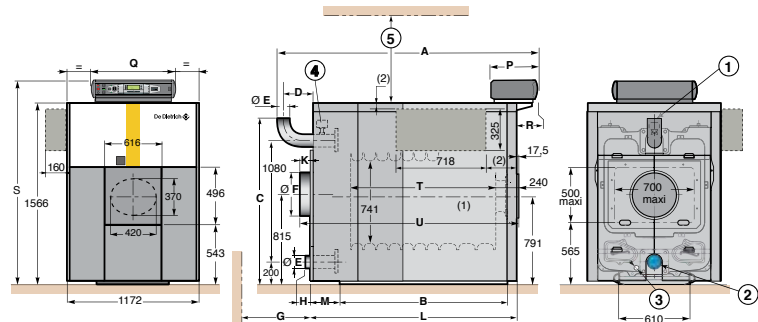
(1) The burner shaft is marked with a spot weld. Possibility of drilling the burner door on request and without additional cost in diameters 165, 186, 210, 240 or 290mm

(2) Lateral control panel (specify when ordering): its position on 1 of the lateral panels is left to the fitter's discretion

** Length required to extract the water equidistribution pipe

*** Dimension corresponding to the end of the flue connection (with exhaust collar height 100mm)

R: Threading
Rp: Tapped connection



GT	A	A	B	C	D	Ø E	Ø F	C**	H	K***	L	M	T	U
(standard)	(B3, K3, DIEM-m3)				(to be welded)									
530-7	1606	1761	967	1488	240	139.7	300	-	21	33	1305	248	706	1355.5
530-8	1717	1872	1078	1488	211	139.7	300	-	-8	4	1445	265	817	1466.5
530-9	1828	1983	1078	1488	212	139.7	300	-	-7	5	1555	319	928	1577.5
530-10	1939	2094	1300	1488	233	139.7	350	-	14	26	1645	243	1039	1688.5
530-11	2050	2205	1300	1488	234	139.7	350	-	15	27	1755	297	1150	1799.5
530-12	2161	2316	1522	1488	255	139.7	350	-	36	48	1845	221	1261	1910.5
530-13	2272	2427	1522	1488	256	139.7	350	-	37	48	1955	275	1372	2021.5
530-14	2383	2538	1744	1488	217	139.7	400	-	-2	10	2105	259	1483	2132.5
530-15	2494	2649	1744	1488	188	139.7	400	150	-31	-19	2245	324	1594	2243.5
530-16	2605	2760	1966	1488	189	139.7	400	150	-30	-18	2355	269	1705	2354.5

Control panel	P	Q	R	S
Standard	130	738	20	1670
B3, K3 and DIEMATIC-m3	355	755	175	1760

TECHNICAL SPECIFICATIONS

Low temperature

Min. flow temperature: 40°C
Min. return temperature: 20°C

Max. operating temperature: 90°C

Max. operating pressure: 6 bar
(up to 8 bar on request)

Thermostat: 40 to 85°C adjustable
Safety thermostat: 110°C

MODEL

	GT	530-7	530-8	530-9	530-10	530-11	530-12	530-13	530-14	530-15	530-16	
Nominal output	kW	406	464	522	580	638	696	754	812	870	928	
Efficiency at % PCI output and ...°C water temp.	%	- 100% Pn at 70°C	90.9	91.3	91.4	91.7	90.8	90.5	90.7	91.2	90.0	90.6
		- 30% Pn at 50°C	94.1	94.8	95.1	94.6	94.1	93.8	94.0	94.1	94.3	95.1
Water flow Pn ΔT = 20 K	m³/h	17.47	19.97	22.46	24.96	27.45	29.95	32.44	34.94	37.44	39.93	
Stand-by losses at ΔT = 30 K	W	318	362	362	401	390	426	461	494	498	527	
Auxiliary electrical power (without pump) with DIEMATIC-m3 control panel	W	6	6	6	6	6	6	6	6	6	6	
Usefull output	kW	348-406	406-464	464-522	522-580	580-638	638-696	696-754	754-812	812-870	870-928	
Water content	l	389	427	465	503	541	579	617	655	693	731	
Water resistant at ΔT = 20 K (1)	mbar	4.5	5.5	7.1	8.7	10.5	12.5	14.4	16.8	19.4	6.5	
Combustion chamber	mm	- depth 683mm lg	706	817	928	1039	1150	1261	1372	1483	1594	1705
		- volume	0.28	0.32	0.36	0.40	0.45	0.49	0.53	0.57	0.61	0.65
Flue gas mass	kg/h	- domestic fuel oil	690	790	790	980	1080	1180	1380	1380	1480	1580
		- natural gas	720	830	930	1030	1140	1240	1340	1450	1550	1650
Combustion chamber pressure (1)	mbar	1.7	1.75	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	
Net weight	kg	1852	2046	2237	2412	2601	2810	3000	3171	3364	3561	

(1) At nominal stage, CO₂: 13% with domestic fuel and 9,5% with natural gas, draught at the nozzle = 0

MODEL

GT	530-7	530-8	530-9	530-10	530-11	530-12	530-13	530-14	530-15	530-16
GT530	Ref. 100007047	100007048	100007049	100007050	100007051	100007052	100007053	100007054	100007055	100007056
GT530 B3 (1)	Ref. 100007028	100007029	100007030	100007031	100007032	100007033	100007034	100007035	100007036	100007037
GT530 K3 (1) (2)	Ref. 100006989	100006990	100006991	100006992	100006993	100006994	100006995	100006996	100006997	100006998
GT530 DIEMATIC-m3 (1)	Ref. 100007009	100007010	100007011	100007012	100007013	100007014	100007015	100007016	100007017	100007018

Delivery body bulk. On request, body assembled in factory.

(1) Control panel also available in a "lateral" version on request. (2) GT 530 K3 is only operating in association with GT 530 DIEMATIC-m3.

FUEL OIL / GAS

CAST IRON BOILERS TO BE FITTED WITH A FUEL OIL OR GAS BURNER FOR HEATING



Accessibility easy boiler room:
delivery in separate elements

PROJECT



GT 530

Models GT 530-17 to GT 530-25 from 986 to 1450 kW



Fuel oil / gas boiler

- Annual operating efficiency up to 94.7%
- Heating body of eutectic cast iron
- Gas circuit with 4 paths flue way
- Pressurised furnace high volume combustion and low gas resistance
- Burner door on reversible hinge
- Reinforced insulation, low stand-by losses
- Casing with walkway
- Delivered with a preset flow switch
- Choice of 4 control panels with DHW priority function (except standard control panel):
 - Standard: for controlling a 1-stage or 2-stage burner, control cabinet in the boiler room

- B3: for controlling a 1-stage or 2-stage burner, operation by boiler thermostat
- Diematic-m3: with electronic programmable regulation according to the outside temperature, for controlling a 1-stage, 2-stage or modulating burner, can control up to 10 boilers in cascade
- K3: only operating in association with DIEMATIC-m3 to control the "secondary" boilers
- Fuel oil or gas burner optional
- Packaging: 2 possibilities
 - Heating body in bulk + 9 to 14 packages depending on the model
 - Heating body assembled + 9 to 14 packages depending on the model

N° CE 1312AQ0954

OPTIONS: see next page

MAIN DIMENSIONS (mm and inches)

- Heating flow Ø E (to be welded)
- Heating return Ø E (to be welded)
- Boiler drain Rp 3/4"
- Flow switch (delivered)
- Length required for maintenance and cleaning = 850mm

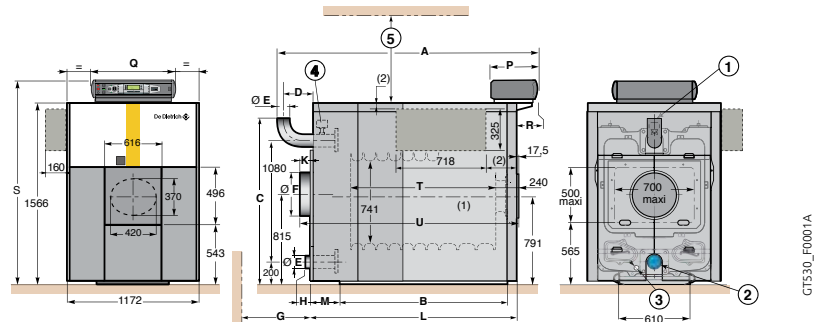
(1) The burner shaft is marked with a spot weld. Possibility of drilling the burner door on request and without additional cost in diameters 165, 186, 210, 240 or 290mm

(2) Lateral control panel (specify when ordering): its position on 1 of the lateral panels is left to the fitter's discretion

** Length required to extract the water equidistribution pipe

*** Dimension corresponding to the end of the flue connection (with exhaust collar height 100mm)

R: Threading
Rp: Tapped connection



GT	A	A	B	C	D	Ø E	Ø F	G**	H	K***	L	M	T	U
	(standard)	(B3, K3, DIEM-m3)				(to be welded)								
530-17	2716	2871	1966	1488	210	139,7	400	370	-9	3	2445	321	1816	2465,5
530-18	2862	3017	2188	1504	236	159	400	370	98	4	2555	265	1927	2576,5
530-19	2973	3128	2188	1504	257	159	400	370	13	25	2645	299	2038	2687,5
530-20	3124	3279	2450	1504	208	159	400	650	-36	-24	2845	269	2189	2838,5
530-21	3235	3390	2450	1504	209	159	*	650	-35	-23	2955	324	2300	2949,5
530-22	3346	3501	2672	1504	230	159	*	650	-14	-2	3045	269	2411	3060,5
530-23	3457	3612	2672	1504	231	159	*	980	-13	-1	3155	324	2522	3171,5
530-24	3568	3723	2894	1504	252	159	*	980	8	20	3245	249	2633	3282,5
530-25	3679	3834	2894	1504	253	159	*	980	9	21	3355	303	2744	3393,5
530-16	2605	2760	1966	1488	189	139,7	400	150	-30	-18	2355	269	1705	2354

TECHNICAL SPECIFICATIONS

Low temperature

Min. flow temperature: 40°C
Min. return temperature: 20°C

Max. operating temperature: 90°C

Max. operating pressure: 6 bar
(up to 8 bar on request)

Thermostat: 40 to 85°C adjustable
Safety thermostat: 110°C

MODEL

	GT	530-17	530-18	530-19	530-20	530-21	530-22	530-23	530-24	530-25
Nominal output	kW	986	1044	1102	1160	1218	1276	1334	1400	1450
Efficiency at % PCI output and ...°C water temp.	%	90.2	91.0	90.6	91.5	91.2	90.9	91.1	90.7	90.9
	%	94.3	94.2	94.6	94.3	94.7	94.5	94.2	94.7	95.1
Water flow Pn ΔT = 20 K	m³/h	42.43	44.92	47.42	49.91	52.41	54.91	57.40	60.24	62.39
Stand-by losses at ΔT = 30 K	W	520	545	578	603	603	634	661	693	821
Auxiliary electrical power (without pump) with DIEMATIC-m3 control panel	W	6	6	6	6	6	6	6	6	6
Usefull output	kW	928-986	986-1044	1044-1102	1102-1160	1160-1218	1218-1276	1276-1334	1334-1400	1400-1450
Water content	l	769	807	845	905	943	981	1019	1057	1095
Water resistant at ΔT = 20 K (1)	mbar	7.6	9.0	10.4	12.0	13.4	14.8	16.2	17.9	19.6
Combustion chamber	- depth 683mm lg	mm	1816	1927	2038	2189	2300	2411	2522	2633
	- volume	m³	0.70	0.74	0.78	0.84	0.88	0.92	0.96	1.00
Flue gas mass	- domestic fuel oil	kg/h	1670	1770	1870	1970	2070	2170	2260	2360
	- natural gas	kg/h	1760	1860	1960	2070	2170	2270	2380	2480
Combustion chamber pressure (1)	mbar	2.6	2.7	2.85	3.0	3.1	3.2	3.3	3.4	3.5
Net weight	kg	3756	3955	4124	4343	4538	4734	4930	5107	5297

(1) At nominal stage, CO₂: 13% with domestic fuel and 9,5% with natural gas, draught at the nozzle = 0

MODEL

	GT	530-17	530-18	530-19	530-20	530-21	530-22	530-23	530-24	530-25
GT530	Ref.	100007057	100007058	100007059	100007060	100007061	100007062	100007063	100007064	100007065
GT530 B3 (1)	Ref.	100007038	100007039	100007040	100007041	100007042	100007043	100007044	100007045	100007046
GT530 K3 (1) (2)	Ref.	100006999	100007000	100007001	100007002	100007003	100007004	100007005	100007006	100007007
GT530 DIEMATIC-m 3 (1)	Ref.	100007019	100007020	100007021	100007022	100007023	100007024	100007025	100007026	100007027

Delivery body bulk. On request, body assembled in factory.

(1) Control panel also available in a "lateral" version on request. (2) GT 530 K3 is only operating in association with GT 530 DIEMATIC-m3.

OPTIONS

FOR GT 330, GT 430 AND GT 530

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

• GT 330

ACCESSORIES

	PACKAGE	REF
Recommended assembly tool JD-TE plus complet		100018991
Relay box for burners with power ≥ 450 W or start up intensity ≥ 16 A	BP51	82197781
Drainage valve kit	FD37	85537074
Safety unit:		
• up to 115 kW (for GT 334, 335)	FD39	85537076
• from 115 to 330 kW (for GT 336 to 339)	FD42	85537079
Set of 2 counter flanges with collar, $\varnothing 2''$	FD38	85537075

ACCESSORIES

	PACKAGE	REF
Recirculation kit	MD218	100012251
Combustion chamber door $\varnothing 175-220$	BP14	82197719
Combustion chamber door $\varnothing 175-270$	BP15	82197720

• GT 430

ACCESSORIES

	PACKAGE	REF
Recommended assembly tool JD-TE plus		100018991
Relay box for burners with power ≥ 450 W or start up intensity ≥ 16 A	BP51	82197781

ACCESSORIES

	PACKAGE	REF
Set of anti-vibration studs:		
• GT 430-8 to 430-10 (4 studs)	CS60	82297781
• GT 430-11 to 430-14 (6 studs)	CS61	82297782

• GT 530

ACCESSORIES

	PACKAGE	REF
Recommended assembly tool JD-TE plus		100018991
Assembly tool JDS (lg 400mm)		88017706
Extension kit JD-TE Plus tool for GT 530-24 and GT 530-25		88018901
Flue gas connection plate		80080538
Relax box for burners with power ≥ 450 W or start up intensity ≥ 16 A	BP51	82197781

ACCESSORIES

	PACKAGE	REF
Anti-vibration studs (1 four-piece set):		
• for GT 530-7 to 530-9	AK18	82087757
• for GT 530-10 to 530-16	AK19	82087758
• for GT 530-17 to 530-20	AK20	82087759
• for GT 530-21 to 530-22	AK21	82087760
Insulation flue gas box	MR244	100010162

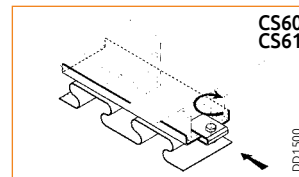
DHW PRODUCTION

	PACKAGE	REF
• with independent calorifier		see chapter 09
DHW sensor	AD212	100000030



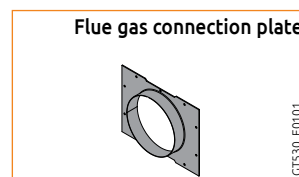
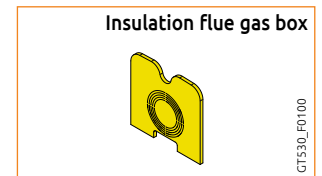
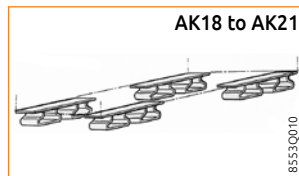
DHW PRODUCTION

	PACKAGE	REF
• with independent calorifier		see chapter 09
DHW sensor	AD212	100000030



DHW PRODUCTION

	PACKAGE	REF
• with independent calorifier		see chapter 09
DHW sensor	AD212	100000030



OPTIONS

FOR GT 330, GT 430 AND GT 530

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Circuit type	Boiler self-standing or boiler 1 of a cascade						Boiler 2 to 10 of a cascade by additional boiler (2)					
	DHW	direct	valve	direct + 1 valve	2 x valve	1 x direct + 2 x valve	3 x valve	1 x valve	2 x valve	3 x valve		
Control panel	Standard	GT 330	for installations without control unit or for those with a boiler room control cabinet									
		GT 430										
		GT 530										
	B3	GT 330 B3	AD212	as standard	no	no	no	no	no	-	-	-
		GT 430 B3	AD212	as standard	AD199	FM48	1 x AD199 + 1 x FM48	2 x FM48	1 x AD199 + 2 x FM48	-	-	-
		GT 530 B3										
	Diematic-m3 (1)	GT 330 DIEMATIC-m3	AD212	as standard	AD199	FM48	1 x AD199 + 1 x FM48	2 x FM48	1 x AD199 + 2 x FM48	-	-	-
		GT 430 DIEMATIC-m3										
		GT 530 DIEMATIC-m3										
	K3 (1)	GT 330 K3								1 x AD220	1 x AD220 + 1 x FM48	1 x AD220 + 2 x FM48
GT 430 K3		-	-	-	-	-	-	-				
GT 530 K3												

(1) Each of the circuits "heating" can be completed in choice by a remote control AD285, AD284 + AD252 or FM52.

(2) Do not forget to order the cascade flow sensor: package AD212 or AD218 and the boiler sensor package AD212 in case of modulating cascade.

CONTROL UNITS OPTIONS

	PACKAGE	REF		PACKAGE	REF
• for B3 control panel			• for DIEMATIC-m 3 control panel		
Roomthermostat:			Sensor:		
• non programmable	AD140	88017859	• Flue gas temperature sensor	FM47	85757742
• Programmable (wired with battery)	AD337	7768817	• Flow sensor downstream of the valve	AD199	88017017
• Programmable (wireless)	AD338	7768818	• Sensors for storage tank	AD160	88017887
Sensor:			• Boiler sensor, cascade flow sensor or DHW sensor	AD212	100000030
• DHW sensor	AD212	100000030	• Dip sensor + sensor tube (replacing the attachment sensor)	AD218	100004781
Time counter (1 piece)	BG40	82187730	• Room sensor	AD244	100012044
• for K3 control panel			• Radio outside temperature sensor	AD251	100013306
Sensor:			Remote control:		
• Room sensor	AD244	100012044	• Simplified remote control with room sensor	FM52	85757747
• Flue gas temperature sensor	FM47	85757742	• Interactive remote control CDI D. iSystem	AD285	100018924
Remote control:			• Interactive remote radio control CDR D. iSystem (without radio transmitter)	AD284	100018923
• Simplified remote control with room sensor	FM52	85757747	BUS cable connection 12 m	AD134	88017851
• Interactive remote control CDI D. iSystem	AD285	100018924	Connecting cable length 40 m for wall brack	DB119	81997720
• Interactive remote radio control CDR D. iSystem (without radio transmitter)	AD284	100018923	Bus cable extension	AD139	88017858
Boiler radio module	AD252	100013307	PCB + sensor for 1 circuit with mixing valve	FM48	85757743
Relay PCB + sensors for 1 circuit with valve	AD220	100004970	Boiler radio module (radio transmitter)	AD252	100013307
PCB + sensor for 1 circuit with mixing valve	FM48	85757743	Communication gateway GTW26 Diematic iSystem/m3 – Modbus	AD325	7714175

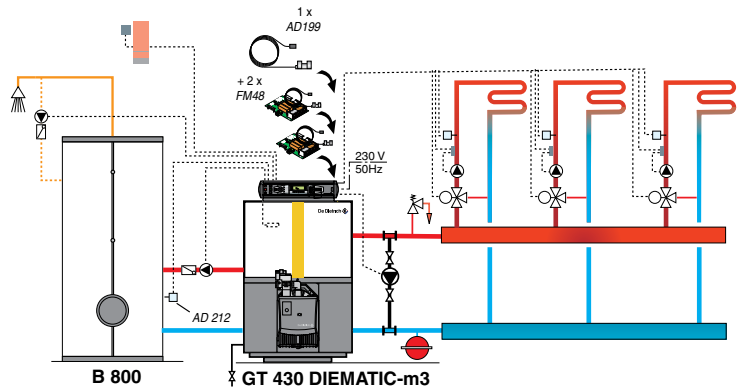


EXAMPLES OF INSTALLATION

FOR GT 330, GT 430 AND GT 530

GT 430 DIEMATIC-m3 (or GT 330/530 DIEMATIC-m3)

- Gas burner G 43
- Independent DHW calorifier B.
- 3 underfloor heating circuits (with mixing valve)



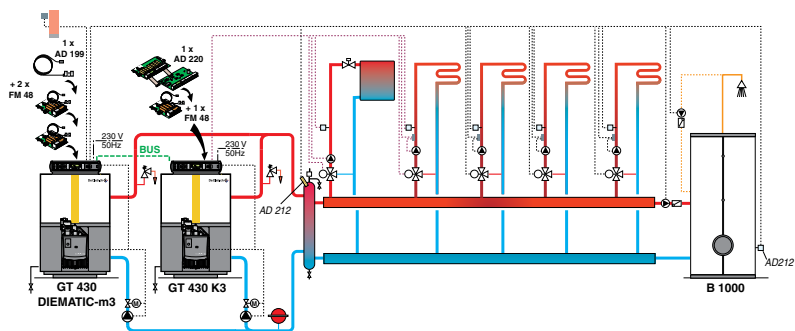
GT330_F0022B

DESCRIPTION

	PACKAGE	REF
GT336 DIEMATIC-m 3	-	100004557
Modulating gas burner G 43-15	-	88027170
Gas train MB VEF 415	-	100019540
Recirculation kit	MD218	100012251
2 x PCB + sensor with mixing valve	2 x FM48	2 x 85757743
Flow sensor downstream of the valve	AD199	88017017
Tank B800	AJ79	7650481
Rigid casing HR	AJ95	7650497
DHW sensor	AD212	100000030

GT 430 DIEMATIC-m3 + GT 430 K3 (or GT 330/530 DIEMATIC-m3 + GT 330/530 K3)

- Modulating gas burner G 43
- Independent DHW calorifier B
- 5 underfloor heating circuits (with mixing valve)



GT330_F0023B

DESCRIPTION

	PACKAGE	REF
GT338 DIEMATIC-m 3	-	100004559
GT338 K3	-	100004553
2 x modulating gas burner G 43-15	-	2 x 88027170
2 x Gas train MB VEF 415	-	2 x 100019540
Cascade outlet sensor	AD212	100000030
3 x PCB + sensor for mixing valve	3 x FM48	3 x 85757743
Flow sensor downstream of the valve	AD199	88017017
Relay PCB + sensors for 1 circuit with mixing valve	AD220	100004970
Tank B1000	AJ80	7650482
Rigid casing HR	AJ97	7650499
DHW sensor	AD212	100000030

BURNERS

FOR GT 330, GT 430 AND GT 530

REPLACEMENT BURNERS FOR GT 330 BOILERS

BOILER	Modulating GAS BURNER
GT 334	G 201-2N (1 all.) G 203-2N
GT 335	G 303-2N
GT 336	G 303-3N
GT 337	G 303-5N
GT 338	G 303-5N
GT 339	G 303-5N (20/25/300 mbar)

BOILER	OIL BURNER (1)
GT 334	M 201-2S (1-stage) M 202-2S (2-stage)
GT 335	M 311-2S (1-stage) M 312-2S (2-stage)
GT 336	M 312-2S (2-stage)
GT 337	M 312-3S (2-stage)
GT 338	M 312-4S (2-stage)
GT 339	M 302-5S (2-stage)

(1) Caution: Make sure that the nozzle is suitable for the output of the boiler in question.

REPLACEMENT BURNERS FOR GT 430 BOILERS

BOILER	Modulating GAS BURNER	WITH GAS RAMP	GAS RAMP (mbar)
GT 430-8	G 303-5N	-	20-25-300 mbar
GT 430-9	G 43-2S	MB VEF 415	20-25 mbar
GT 430-10	G 43-2S	MB VEF 415	20-25 mbar
GT 430-11	G 43-2S	MB VEF 420	20-25 mbar
GT 430-12	G 43-3S	MB VEF 420	20-25 mbar
GT 430-13	G 43-3S	MB VEF 420	20-25 mbar
GT 430-14	G 43-3S	MB VEF 420	20 mbar

BOILER	OIL BURNER
GT 430-8	M 302-5S (1 stage)
GT 430-9	M 42-1 S (2 stage)
GT 430-10	M 42-2 S (Mono) M 42-3S (tri) (2 stage)
GT 430-11	M 42-4 S (2 stage)
GT 430-12	M 42-4 S (2 stage)
GT 430-13	M 42-5 S (2 stage)
GT 430-14	M 42-5 S (2 stage)

GT 530 BOILERS + M... OR GAS BURNERS G...

BOILER	WITH Modulating GAS BURNER	WITH GAS RAMP
GT 530-7	G 43-2S	MB VEF 415
GT 530-8	G 43-2S	MB VEF 415
GT 530-9	G 43-2S	MB VEF 415
GT 530-10	G 43-2S	MB VEF 420 MB VEF 415
GT 530-11	G 43-3S	MB VEF 420 MB VEF 415
GT 530-12	G 43-3S	MB VEF 420 MB VEF 415
GT 530-13	G 43-3S	MB VEF 420 MB VEF 425 MB VEF 415
GT 530-14	G 43-3S	MB VEF 425 MB VEF 415
GT 530-15	G 43-3S	MB VEF 425 MB VEF 415
GT 530-16	G 43-3S	MB VEF 425 MB VEF 415

BOILER	WITH 2-STAGE OIL BURNER (1)
GT 530-7	M 42-1 S
GT 530-8	M 42-2 S (Mono) M 42-3 S (Tri)
GT 530-9	M 42-4 S
GT 530-10	M 42-4 S
GT 530-11	M 42-4 S
GT 530-12	M 42-5 S
GT 530-13	M 42-5 S
GT 530-14	M 42-5 S
GT 530-15	M 42-5 S
GT 530-16	M 42-5 S

(1) Caution: Make sure that the nozzle is suitable for the output of the boiler in question.

CONNECTION INSTRUCTIONS

GENERAL INFORMATION

In order to optimize the high performance of modern boilers with high thermal exchange rates, boiler construction requires very particular attention. This is why we take this opportunity to mention a certain number of points, which constitute basic rules to be observed; these instructions are not exhaustive, however, and the application of the Codes of Practice must not be neglected.

Each of these rules is explained in the following paragraphs and constitutes a condition for the application of the guarantee. In short, these are basic technical instructions which guarantee the correct operation of a heating installation.

MINIMUM FLOW RETURN TEMPERATURES

De Dietrich boilers operate at modulated low temperature with the option of total cooling between 2 heating requests. They enable minimum flow temperatures of:

30°C for	40°C for
GT 220	GT 430
GT 330	GT 530

These values constitute the lower limit, which must not be exceeded in normal operation.

MINIMUM FLOW DURING BURNER OPERATION FOR BOILERS WITH A OUTPUT OF ≥ 116 kW

When the burner is operating, it is necessary to ensure a flow of water in the boiler. The useful nominal output of De Dietrich boilers is determined for a difference in flow/return temperature of 15 K.

$$\text{Nominal flow } Q_n = \frac{0.86 P_n}{15}$$

P_n = Nominal boiler output in kW (high power)
 Q_n in m³/h

The flow of water with in the boiler for GT 330, GT 430 and GT 530 ranges must be between 1/3 of the nominal flow and 3x the nominal flow when the burner is operating.

$$\text{Minimum flow: } Q_{\text{mini}} = \frac{Q_n}{3} = \frac{0.86 \times P_n}{45}$$

$$\text{Maximum flow } Q_{\text{max}} = Q_n \times 3 = \frac{0.86 P_n}{5}$$

For GT 430 and GT 530 boilers, burner operation is subject to the flow switch (provided), which guarantees the minimum flow.

MINIMUM SETTING OF THE BURNER OUTPUT

De Dietrich boilers fitted with a 2-stage or modulating burner will operate according to the data shown opposite:

Flow temp. Minimum setting of the burner output

	2-stage	modulating
Constant temperature $\geq 50^\circ\text{C}$	30%	30%
At low modulated temperature	50%	50%

ADDITIONAL INSTRUCTIONS

- Ensure that the boiler and pipes are purged effectively at all times and in all circumstances
- Ensure that there is sufficient water in the installation
- Ensure that the static water pressure in the boiler is sufficient
- Take any measures necessary to prevent scaling, if necessary a water treatment system.
- Ensure that no residues, such as mud, for example, can get into the boiler circuit, if necessary, use a filtration system.



DOMESTIC HOT WATER

06 ELECTRIC STORAGE WATER HEATERS 10 to 300 l

SELECTION GUIDE p174

Bloc p175

Cor-email THS p176

CEB p179

07 THERMODYNAMIC WATER HEATER (HEAT PUMP) 180 to 300 l

SELECTION GUIDE p181

Kaliko Split p182

Elensio p186

08 DOMESTIC HOT WATER CALORIFIERS 80 to 500 l

SELECTION GUIDE p188

BMR 80 p189

SRB 130 p189

BLC 150 - 500 p190

EL 160 p191

L 160 p191

BPB 150 - 501 p192

09 COMMERCIAL DOMESTIC HOT WATER CALORIFIERS PLATE EXCHANGERS 650 TO 3000 l

SELECTION GUIDE p194

B 650-3000 p196

FWS 750 - 1300 p197

FWPC p198

FWPS p199

FWP p200

RSB 800 - 3000 p201






ELECTRIC STORAGE WATER HEATERS SELECTION GUIDE

AN ELECTRIC WATER HEATER SHOULD BE SELECTED DEPENDING ON THE HOT WATER DEMAND AND THE SPACE AVAILABLE FOR IT

- The DHW demand depends on the number of occupants in the residence and their consumption habits
- We produce floor-standing, vertical and horizontal wall-mounted and "flat" models (e.g. for installation behind a door) in a wide range of capacities

The advantage of electric water heaters compared to other solutions is that the volume of water delivered at 40 °C and required by users is much higher than their capacity: for example, a 200-litre water heater can supply up to 370 litres of DHW; the delivered volume, known as V40, is the selection criterion.


CAPACITY SELECTION GUIDE FOR AN ELECTRIC WATER HEATER DEPENDING ON THE NUMBER OF OCCUPANTS IN A RESIDENCE

	Sink, washbasin						more than 5 occupants with high DHW consumption
Average daily DHW demand: average V40 (l)	< 100	100	190	270	370	40	570
Water heater capacity (l)	< 15	50-75	100	150	200	250	300

Electric storage water heaters



BLOC

Energy class DHW		Up to 
Capacity	litre	10 to 30
With		magnesium anode
Power supply		230 V single-phased
Electrical resistance		armored
Application		New build
Pages		175

Electric storage water heaters












**COR-EMAIL
VERTICAL WALL-HUNG THS**



**COR-EMAIL
HORIZONTAL THS**



**COR-EMAIL
FLOOR-STANDING THS**

Energy class DHW				
Capacity	litre	50 to 200	100 to 200	150 to 300
With		Titan Hybrid System®  (except 50 l)	ACI electronic  (50 l)	Titan Hybrid System® 
Power supply		50 to 100 l: 230 V single-phased 150 and 200 l: 		
Electrical resistance		steatite	steatite	steatite
Pages		176	177	178



Electric storage water heaters



**CEB
WALL-HUNG**



**CEB
FLOOR-STANDING**

Energy class DHW			
Capacity	litre	50 to 200	250 to 300
With		magnesium anode	magnesium anode
Power supply		230 V single-phased	230 V single-phased
Electrical resistance		armored	armored
Pages		179	179

ELECTRIC WATER HEATERS

WALL-HUNG ELECTRIC STORAGE WATER HEATERS

EASYLIFE

Bloc

Unit from 10 to 30 l

up to
A



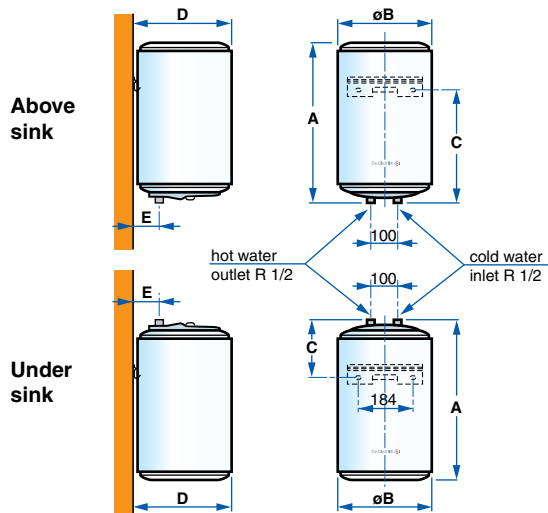
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- Quick heat water heater for small but frequent draw off (kitchens, wash basins, etc.)
- Free flow installed to supply a single water outlet or under pressure to supply several draw off points.
- Enamelled tank, protection by magnesium anode
- Armored electrical resistance
- Adjustable thermostat with heating indicator
- Delivered with mains connection cable
- CFC-free injected polyurethane foam insulation
- Casing in white enamelled sheet steel

• Packaging: 1 package

MAIN DIMENSIONS (mm and inches)

Water heater type	UNIT under sink		UNIT above sink		
	10	15	10	15	30
Nominal capacity in litres	10	15	10	15	30
A	456	496	456	496	623
Ø B	255	287	255	287	338
C	218	218	289	327	463
D	262	294	262	294	345
E	64	70	64	70	81



TECHNICAL SPECIFICATIONS

Max. operating temperature: 75°C

Max. operating pressure: 7 bar

Thermostat adjustable from 8 to 70°C (pre-set at 65°C)

Protection index:
- under sink models: IP 24
- above sink models: IP 25

MODEL

	UNIT	UNDER SINK		ABOVE SINK		
		10 L	15 L	10 L	15 L	30 L
Energy efficiency class		B	B	A	B	C
Nominal power	W	2000	2000	1600	2000	2000
Intensity in 230 V single phase	A	8.7	8.7	7.0	8.7	8.7
Heating time (1) (2)	min	18	23	27	25	52
Coefficient of heat losses	W/K	0.58	0.61	0.41	0.50	0.72
Net weight	kg	7.5	9.5	7.5	9.7	13

(1) From 15 to 65°C according to the EN 60379 standard.

(2) Results obtained on appliances taken on the day of manufacture, according to the protocol described by the EN 60379 standard, with a thermostat trigger temperature at 62°C and a differential of 5 K.

MODEL

UNIT	10 L UNDER SINK	15 L UNDER SINK	10 L ABOVE SINK	15 L ABOVE SINK	30 L ABOVE SINK
Ref.	89599003	89599013	89599002	89599012	89599021

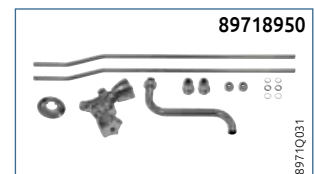
OPTIONS

ACCESSORIES

REF.

Mixing tap fittings for free flow:

- under sink models **89788901**
- above sink models **89718950**



ELECTRIC WATER HEATERS

VERTICAL WALL-HUNG ELECTRIC STORAGE WATER HEATERS

ADVANCE



Cor-email

Vertical wall-hung from 50 to 200 l



(150 and 200 l)

Water heater with storage to be mounted on the wall

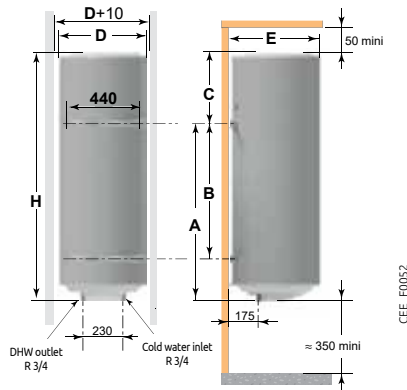
- Designed for 240 V single-phase
- "Easytri" transformation kit for 400 V three-phase is available in option (for 150 and 200 litres models)
- Glass-lined tank that lasts up to twice as long as a conventional water heater, dynamic protection thanks to the combined action of the "Titan Hybrid System" wear-free magnesium-coated titanium anode (except the 50-L model, which comes with an impressed current anode: Integral Anti-Corrosion system)

- Steatite electrical resistance inserted into an enamelled sheath, accessible without requiring drainage of the water heater
- Electronic thermostat that can be set precisely between 50 and 65°C with heating indicator light
- CFC-free injected polyurethane foam insulation
- Casing in white enamelled sheet steel
- **Packaging:** 1 package

MAIN DIMENSIONS (mm and inches)

Vertical wall-hung electric water heaters Cor-Email THS	75	100	150	200
A (mm)	570	750	1050	1050
B (mm)	-	-	800	800
C (mm)	135	85	105	425
Ø D (mm)	513	513	513	513
E (mm)	530	530	530	540
H (mm)	705	910	1155	1475

R: Threading
Rp: tapped connection



TECHNICAL SPECIFICATIONS

Max. operating temperature: 75°C
Max. operating pressure: 7 bar

Electronical thermostat adjustable
from 50 to 65°C (pre-set at 65°C)

Protection index: IP 25

MODEL

	VERTICAL WALL-HUNG	75 L	100 L	150 L	200 L
Energy efficiency class (tapping profile)		C (L)	C (L)	C (L)	C (L)
Power supply		single phase	single phase	Easytri*	Easytri*
Nominal power	W	1200	1200	1800	2400
Intensity	- 230 V single phase	A	5.2	7.8	9.6
	- 400 V three phase*	A	-	2.6	3.2
Actual heating time (1) (2)	h	4h08	5h27	5h14	5h44
Quantity of water provided at 40°C (V ₄₀)	l	142	177	277	373
Standby consumption	kWh/24h	1.08	1.28	1.65	1.94
Net weight	kg	23	27	35	45

* with transformation kit Easytri available in option

(1) From 15 to 65°C according to the EN 60379 standard.

(2) Results obtained on appliances taken on the day of manufacture, according to the protocol described by the EN 60379 standard, with a thermostat trigger temperature at 62°C and a differential of 5 K.

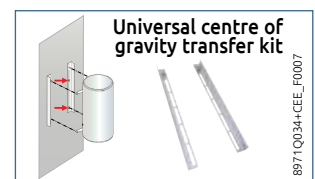
MODEL

	VERTICAL WALL-HUNG	75 L	100 L	150 L	200 L
	Ref.	7788343	7788344	7788345	7788346

OPTIONS

ACCESSORIES

	REF.
Trivet for floor mounting	89788949
"Easytri" transformation kit 240 V/400 V (only for 150 and 200 l models)	100001495
Universal centre of gravity transfer kit (to replace an existing water heater)	100019794



ELECTRIC WATER HEATERS

HORIZONTAL ELECTRIC STORAGE WATER HEATERS

ADVANCE

Cor-email

Horizontal THS from 100 to 200 l



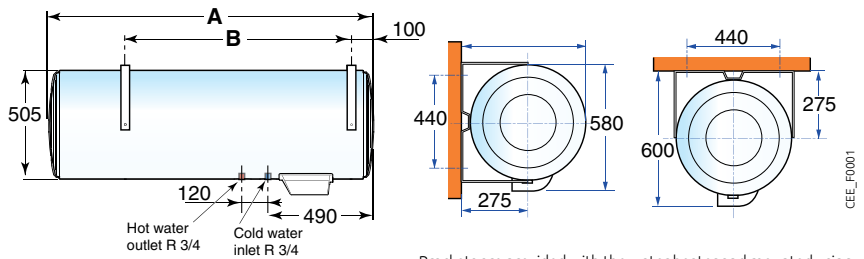
- Water heater with storage to be mounted on the wall or ceiling (they can be placed on chocks on the floor. Chocks not provided, height 300 mm)
- Designed for 240 V single-phase
 - "Easytri" transformation kit for 400 V three-phase is available in option
 - Glass-lined tank that lasts up to twice as long as a conventional water heater, dynamic protection thanks to the combined action of the "Titan Hybrid System"
 - Steatite electrical resistance inserted into an enamelled sheath, accessible without requiring drainage of the water heater

- Electronic thermostat that can be set precisely between 50 and 65°C with heating indicator light
- CFC-free injected polyurethane foam insulation
- Casing in white enamelled sheet steel
- Packaging: 1 package

MAIN DIMENSIONS (mm and inches)

Horizontal electric water heaters Cor-Email THS	100 l	150 l	200 l
A (mm)	830	1150	1510
B (mm)	600	800	1050

R: Threading



Brackets are provided with the water heater and mounted using 4 bolts Ø 10 mm (no provided)

TECHNICAL SPECIFICATIONS

Max. operating temperature: 75°C	• Electronical thermostat adjustable	• Protection index: IP 24
Max. operating pressure: 7 bar	• from 50 to 65°C (pre-set at 65°C)	

MODEL

	HORIZONTAL	100 L	150 L	200 L
Energy efficiency class (tapping profile)	C (L)	C (L)	C (L)	C (L)
Power supply {		Easytri*	Easytri*	Easytri*
Nominal power	W	1800	1800	2200
Intensity - 230 V single phase	A	7.8	7.8	9.6
- 400 V three phase*	A	2.6	2.6	3.2
Actual heating time (1) (2)	h	2h51	4h24	4h31
Quantity of water provided at 40° C (V ₄₀)	l	161	237	311
Standby consumption	kWh/24h	1.03	1.46	1.75
Net weight	kg	29	37	45

*with Easytri transformation kit available in option

(1) From 15 to 65°C according to the EN 60379

(2) Results obtained on appliances taken on the day of manufacture, according to the protocol described by the EN 60379 standard, with a thermostat trigger temperature at 62°C and a differential of 5 K.

MODEL

HORIZONTAL	100 L	150 L	200 L
Ref.	7788351	7788352	7788353

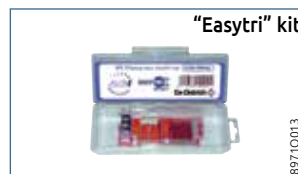
OPTIONS

ACCESSORIES

REF.

"Easytri" transformation kit 240 V/400 V (only for 100 to 200 l)

100001495



8971Q013

ELECTRIC WATER HEATERS

FLOOR-STANDING ELECTRIC STORAGE WATER HEATERS

ADVANCE



Cor-email

Floor-standing THS from 150 to 300 L



Floor-standing water heater with storage, models up to 300 litres can be built into a closed cupboard with floor surface dimensions of 600 x 650 mm

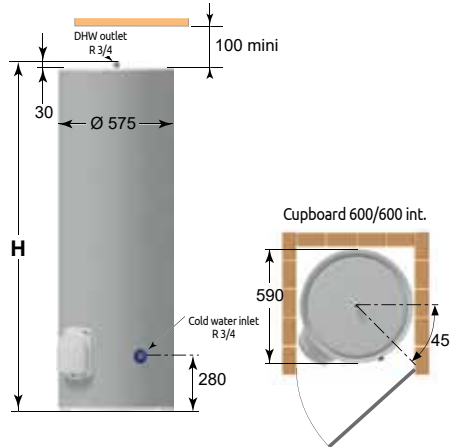
- Designed for 240 V single-phase. An optional "Easytri" transformation kit for 400 V/three-phase is available in option
- Glass-lined tank that lasts up to twice as long as a conventional water heater, dynamic protection thanks to the combined action of the "Titan Hybrid System"
- Steatite electrical resistance inserted into an enamelled sheath, accessible without requiring drainage of the water heater

- Electronic thermostat that can be set precisely between 50 and 65°C with heating indicator light
- CFC-free injected polyurethane foam insulation
- Casing in white enamelled sheet steel
- Packaging: 1 package

MAIN DIMENSIONS (mm and inches)

Electric water heaters floor-standing Cor-Email THS	150 l	200 l	250 l	300 l
H (mm)	1015	1270	1510	1765

R: Threading



TECHNICAL SPECIFICATIONS

Max. operating temperature: 75°C	• Electronical thermostat adjustable	• Protection index: IP 24
Max. operating pressure: 7 bar	• from 50 to 65°C (pre-set at 65°C)	

MODEL

	FLOOR-STANDING	150 L	200 L	250 L	300 L
Energy efficiency class (tapping profile)		C (M)	C (M)	C (L)	C (L)
Power supply {		Easytri*	Easytri*	Easytri*	Easytri*
Nominal power	W	1800	2200	3000	3000
Intensity - 230 V single phase	A	7,8	9,6	13	13
- 400 V three phase	A	2,6*	3,2*	4,3*	4,3*
Actual heating time (1) (2)	h	4h19	5h14	4h58	6h18
Quantity of water provided at 40 °C (V ₄₀)	l	276	376	435	537
Stanby consumption	kWh/24h	1.52	1.81	2.04	2.31
Net weight	kg	40	51	69	73

*with Easytri transformation kit available in option

(1) From 15 to 65°C according to the EN 60379

(2) Results obtained on appliances taken on the day of manufacture, according to the protocol described by the EN 60379 standard, with a thermostat trigger temperature at 62°C and a differential of 5 K.

MODEL

	FLOOR-STANDING	150 L	200 L	250 L	300 L
	Ref.	7788347	7788348	7788349	7788350

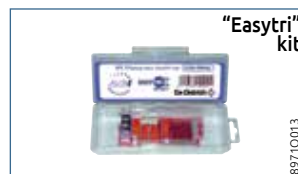
OPTIONS

ACCESSORIES

REF.

"Easytri" transformation kit 240 V/400 V (only for 150 to 300 l)

100001495



8971Q013

CEE_F0053

ELECTRIC WATER HEATERS

ARMORED RESISTANCE ELECTRIC STORAGE WATER HEATERS

PROJECT

CEB

From 50 to 300 L

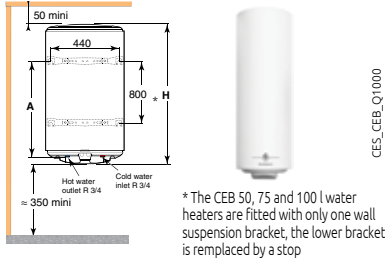


8971Q010A

- Vertical wall-hung or floor-standing water heater • Packaging: 1 package with storage
- Enamelled steel tank, protection by magnesium anode
 - Armored electrical resistance
 - Adjustable thermostat
 - CFC-free injected polyurethane foam insulation
 - Casing in white enamelled sheet steel

MAIN DIMENSIONS (mm and inches)

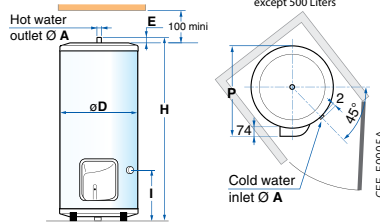
CEB 50 to 200



Vertical wall-hung models

CEB	50 l	75 l	100 l	150 l	200 l
A (mm)	370	570	750	1050	1050
Ø D (mm)	505	513	513	513	513
E (mm)	530	530	530	530	530
H (mm)	575	705	835	1155	1475

CEB 250 and 300



Floor-standing models

CEB	250 l	300 l
Ø A (mm)	R 3/4"	R 3/4"
Ø D (mm)	575	575
E (mm)	30	30
H (mm)	1510	1765
l (mm)	280	280
P (mm)	590	590

TECHNICAL SPECIFICATIONS

Max. operating temperature: 75°C	Max. operating pressure: 7 bar	Thermostat adjustable from 35 to 75°C (pre-set at 65°C)	Protection index: - floor-standing models: IP 24 - vertical, wall-hung models: IP 25
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MODEL

	CEB 50 WALL-HUNG	CEB 75 WALL-HUNG	CEB 100 WALL-HUNG	CEB 150 WALL-HUNG	CEB 200 WALL-HUNG	CEB 250 FLOOR-STANDING	CEB 300 FLOOR-STANDING
Capacity	L	50	75	100	150	200	300
Power	W	1200	1200	1200	1600	2200	3000
Power supply	V ~	230 V single phase	230 V single phase	230 V single phase	230 V single phase	230 V single phase	230 V single phase
Absorbed intensity (230 V single phase)	A	5.2	5.2	5.2	7.0	9.6	14.3
Actual heating time at ΔT = 50 K (1)(2)	h	2h26	4h12	5h13	5h50	5h42	4h51
Quantity of water provided at 40°C (V ₄₀)	l	137	137	176	279	375	435
Standby losses	kWh/24h	0.71	1.06	1.18	1.61	1.96	2.12
Net weight	kg	17	22	26	34	43	53

(1) From 15 to 65°C according to the EN 60379

(2) Results obtained on appliances taken on the day of manufacture, according to the protocol described by the EN 60379 standard, with a thermostat trigger temperature at 62°C and a differential of 5 K.

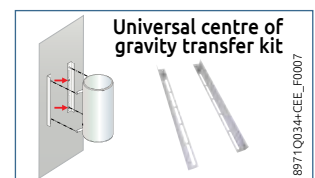
MODEL

	CEB 50 WALL-HUNG	CEB 75 WALL-HUNG	CEB 100 WALL-HUNG	CEB 150 WALL-HUNG	CEB 200 WALL-HUNG	CEB 250 FLOOR-STANDING	CEB 300 FLOOR-STANDING
Power supply	single phase	single phase	single phase	single phase	single phase	single phase	single phase
	Ref. 7788356	7788357	7788358	7788359	7788360	7788354	7788355

OPTIONS

ACCESSORIES

	REF.
Trivet for floor mounting	89788949
Kit electrical resistance 400 V multi-voltage:	
• for CEB 200 litres wall-hung	100020099
• for CEB floor-standing	7605060
Universal centre of gravity transfer kit (to replace an existing water heater)	100019794





De Dietrich

THERMODYNAMIC HEATER SELECTION GUIDE

THERMODYNAMIC WATER HEATERS OPERATE USING THE STORAGE PRINCIPLE JUST LIKE ELECTRIC WATER HEATERS. LIKEWISE, THEY ARE SELECTED ON THE BASIS OF THE DHW DEMAND AND THE SPACE AVAILABLE FOR THEIR INSTALLATION

In addition to the DHW demand, for which the selection is based on the capacity of the thermodynamic water heater, we offer three installation solutions: compact versions with the heat pump on the tank, a compact version with MCV, and Split models with the heat pump unit outside the home for quiet operation. As with electric water heaters, CETDs deliver significantly more DHW at 40 °C for users than their capacity.

CAPACITY SELECTION GUIDE FOR A THERMODYNAMIC WATER HEATER DEPENDING ON THE NUMBER OF OCCUPANTS IN A RESIDENCE

	1 to 2	2 to 3	3 to 4	4 to 5	more than 5 occupants with high DHW consumption
Average daily DHW demand: average V40 (l)	200	270	370	570	> 570
Water heater capacity (l)	150 to 180	200	230 to 300		300 + hydraulic supplement

Kaliko Split

Elensio



kaliko split TWH FS 200E

kaliko split TWH FS 270E

kaliko split TWH WH 150E

kaliko split TWH WH 200E

Elensio 200

Elensio 200 H

Elensio 250

Elensio 250 H



Energy class DHW		A+	A+	A+	A+	A+	A+	A+	A+
Water heaters capacity	liters	200	270	150	200	196	188	251	243
Air/water heat pump	• Ambient	-	X	-	-	X	X	X	X
	• Outside	-	X	X	X	X	X	X	X
	• Extract	-	-	-	-	X	X	X	X
Type	• Monobloc	-	-	-	-	X	X	X	X
	• Split	-	-	X	X	-	-	-	-
Type of back-up	E (electric) H (hydraulic)	E	E	E	E	E	E/H	E	E/H
COP	• at + 7° C (Taping profile)	3.14	3.33	3.18	3.03	2.56 (M)/3.09 (L)	2.63 (M)/3.15 (L)	3.15 (L)/3.45 (XL)	3.00 (L)/3.28 (XL)
	• at + 15° C	-	-	-	-	3.25 (L)	3.33 (L)	3.63 (XL)	3.28 (XL)
Application		New build and renovation	New build and renovation	New build and renovation	New build and renovation	New build and renovation	New build and renovation	New build and renovation	New build and renovation
Pages		182	182	184	184	186	186	186	186
Options and examples of installation		183	183	185	185	187	187	187	187

THERMODYNAMIC WATER HEATER

THERMODYNAMIC WATER HEATER ON OUTSIDE AIR

EASYLIFE

Kaliko Split

TWH FS 200 E, FS 270 E (200 and 270 l)

point

High COP
Heating of DHW until 65 °C



A+



Floor-standing thermodynamic water heater with storage

- Including a 200 or 270 litres calorifier (SFS... E) and an outdoor module
- Electrical backup heat element of 2.4 kW
- Heating of DHW until 65 °C
- Working on outside air from - 15°C to + 42°C
- Enamelled tank, protection by magnesium anode
- Rotary compressor
- Evaporator made of copper pipes and aluminium vanes

- Aluminium condenser fitted around the tank
- Specific stand-alone control unit delivered with the water heater for a DHW application incorporating timer programming, back-up control, display of measurements related to operation of the outdoor unit and of faults by error code.
- Packaging: 3 packages (outdoor unit, tank and HMI/ DHW sensor cable)

OPTIONS: see next page

MAIN DIMENSIONS (mm and inches)

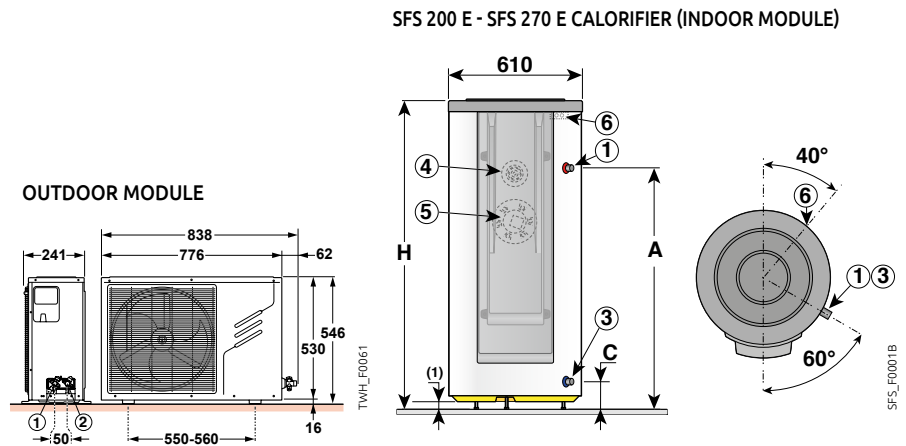
OUTDOOR MODULE:

- ① Liquid refrigeration connection 1/4" flare
- ② Gas refrigeration connection 3/8" flare

SFS... CALORIFIER (INDOOR MODULE):

- ① Domestic hot water outlet G 3/4" (with or without dielectric connection)
 - ③ Domestic cold water inlet G 3/4" (with dielectric connection)
 - ④ Magnesium anode
 - ⑤ Electrical resistance 2400 W
 - ⑥ Refrigeration connection 3/8" and 1/4" flare
- (1) Feet adjustable from 10 to 21 mm

	SFS 200 E	270 E
A (mm)	1065	1378
C (mm)	250	250
H (mm)	1377	1690



TECHNICAL SPECIFICATIONS

Max. operating temperature: 75°C Max. operating pressure: 10 bar Air temperature for heat pump functioning: -15 to +42°C

MODEL

	TWH	FS 200 E	FS 270 E
Capacity of DHW tank	l	215	270
Heat pump output (with outside air temperature of + 7°C)	W	1750	1750
Absorbed electrical power (outdoor module)	We	900	900
COP (1)		3.14	3.33
Maximum air flow rate	m³/h	1300	1300
Electrical resistance output	W	2400	2400
Power supply	V	230 V single-phase	230 V single-phase
Circuit breaker	A	16	16
Heating time 10-54°C (1)	h	5 h 41	7 h 36
Quantity of DHW provided (1)	l	297.9	385.1
Power consumption in establish operating mode (1) (4)	W	31	35
DHW requirement cycle according to NF EN 16147		L	XL
Water heating energy efficiency (2)	%	132	138
Length of the refrigerant connection (min./max.)	m	2/20	2/20
Max. distance / height difference between outdoor module and DHW tank	m	20/10	20/10
Sound output from outdoor unit (3)	dB(A)	59	59
Sound pressure from outdoor unit (5)	dB(A)	42	42
R 134 A refrigerant	kg	1.6	1.6
Weight empty outdoor unit	kg	33.5	33.5
Weight empty DHW calorifier	kg	70	82

(1) Value with air inlet temperature + 7°C and cold water inlet temp. 10°C, according to CDC LCIE n°103-15/B:2011 and EN 16147 specifications with 5 m of refrigeration connecting pipes between outdoor and indoor modules.

(2) According to commission regulation (EU) n° 812/2013 from 18/02/2013.

(3) Value obtained at an average air temperature of +20°C when heating from 10 to 55°C.

(4) Electrical power consumption if hot water is not used.

(5) At 2 m from the appliance.

MODEL

TWH	FS 200 E	FS 270 E
Ref.	7629713	7629714

OPTIONS AND EXAMPLES OF INSTALLATION

FOR KALIKO TWH FS

ALL OPTIONS EXCEPT CONTROL UNITS

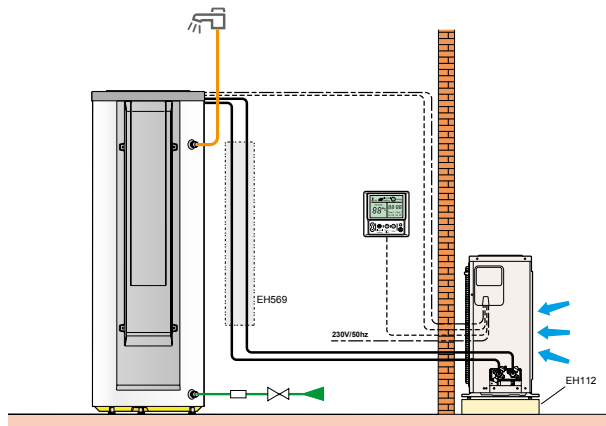
ACCESSORIES

	PACKAGE	REF.
Wall bracket + antivibration studs for outdoor unit	EH95	100011222
Floor support kit for outdoor module	EH112	100012533
Refrigeration connection 1/4" - 3/8":		
• length 5 m	EH569	7627741
• length 10 m	EH570	7627742
• length 20 m	EH589	7629725
Floor installation rubber base	EH879	7694974
Imposed current anode	AJ38	8975752
Safety unit connection kit	ER208	100019424



EXAMPLES OF INSTALLATION

Kaliko Split TWH FS 270 E

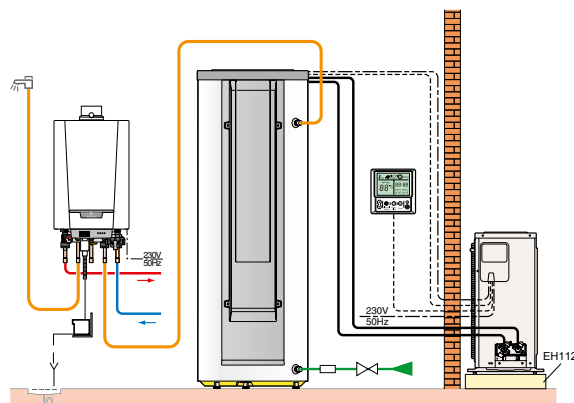


TWH_F0066

DESCRIPTION

	PACKAGE	REF.
TWH FS 270 E	-	7629714
Refrigeration connection 1/4" - 3/8", lg 5 m	EH569	7627741
Floor support kit for outdoor module	EH112	100012533

Kaliko Split TWH FS 200 E



TWH_F1001

DESCRIPTION

	PACKAGE	REF.
TWH FS 200 E	-	7629713
Refrigeration connection 1/4" - 3/8", lg 5 m	EH569	7627741
Floor support kit	EH112	100012533
Boiler EMC-S 24/28 MI	HP145	7792983

THERMODYNAMIC WATER HEATER

THERMODYNAMIC WATER HEATER ON OUTSIDE AIR

EASYLIFE



Kaliko Split

TWH WH 150 E, WH 200 E (150 and 200 l)



100% French production of indoor modules



Heating of DHW until 65°C, high COP
May replace the main electric water heaters on the market

- Wall-mounted thermodynamic storage water heater
- Including a 150- or 200-litre wall-mounted tank (SWH... E) and a refrigerant unit to be connected outside
- 1.6 kW back-up steatite immersion heater
- DHW reheating up to 65 °C by the heat pump
- Enamelled tank protected by magnesium anode
- Rotary compressor, evaporator made of copper pipes and aluminium fins, aluminium condenser positioned around the tank
- Heat pump operation down to -15 °C
- Remote control unit for DHW application integrating timer programming, back-up management,

- night back-up management, energy metering estimates and display of measurements linked to operation of the outdoor unit
- Optimised or hybrid function integration
- Packaging: 3 packages (outdoor unit, tank and HMI/ DHW sensor cable)

OPTIONS: see next page

MAIN DIMENSIONS (mm and inches)

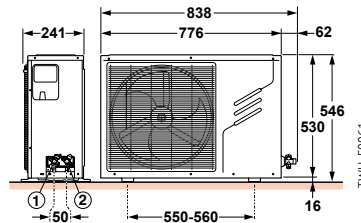
OUTDOOR MODULE:

- Liquid refrigeration connection 1/4" flare
- Gas refrigeration connection 3/8" flare

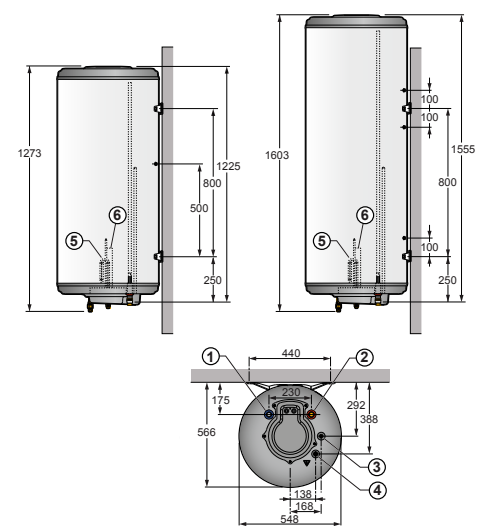
CALORIFIER SWH... (INDOOR MODULE):

- Domestic cold water inlet G 3/4" without dielectric connection
- Domestic hot water outlet G 3/4" with or without dielectric connection
- Refrigeration connection 3/8" and 1/4" flare
- Magnesium anode
- Electrical resistance 1600 W
- Feet adjustable from 10 to 21 mm

OUTDOOR MODULE



CALORIFIER (INDOOR MODULE)



TECHNICAL SPECIFICATIONS

Max. operating temperature: 75°C

Max. operating pressure: 10 bar

Air temperature for heat pump functioning: -15 to +42°C

MODEL

	TWH	WH 150 E		WH 200 E	
Capacity of DHW tank	l	150		200	
Heat pump output (with outside air temperature of +7°C)	W	1750		1750	
Absorbed electrical power (outdoor module)	We	900		900	
Draw off cycle according to NF EN 16147		M	L	M	L
COP (1)		2.82	3.18	2.63	3.03
Heating time (1)	h	4 h 15	4 h 10	5 h 44	5 h 43
Quantity of DHW provided (1)	l	200	199	275	275
Power consumption in establish operating mode (1) (4)	W	13	13	16	15
Water heating energy efficiency	%	117	130	109	124
Maximum air flow rate	m ³ /h	1300		1300	
Electrical resistance output	W	1600		1600	
Power supply/circuit breaker	V/A	230 V single-phase/ 16		230 V single-phase/ 16	
Length of the refrigerant connection (min./max.)	m	2/20		2/20	
Max. distance/height difference between outdoor module and DHW tank	m	20/10		20/10	
Sound output from outdoor unit (3)	dB(A)	59		59	
Sound pressure from outdoor unit (5)	dB(A)	42		42	
Refrigerant R 134 A	kg	1.6		1.6	
Weight empty outdoor unit	kg	33.5		33.5	
Weight empty DHW calorifier	kg	60.5		74	

(1) Value with air inlet temperature + 7°C and cold water inlet temp. 10°C, according to CDC LCIE n°103-15/B:2011 and EN 16147 specifications with 5 m of refrigeration connecting pipes between outdoor and indoor modules. (3) Value obtained at an average air temperature of +20°C when heating from 10 to 55°C. (4) Electrical power consumption if hot water is not used. (5) At 2 m from the appliance.

MODEL

TWH

WH 150 E

WH 200 E

Ref.

7632383

7632382

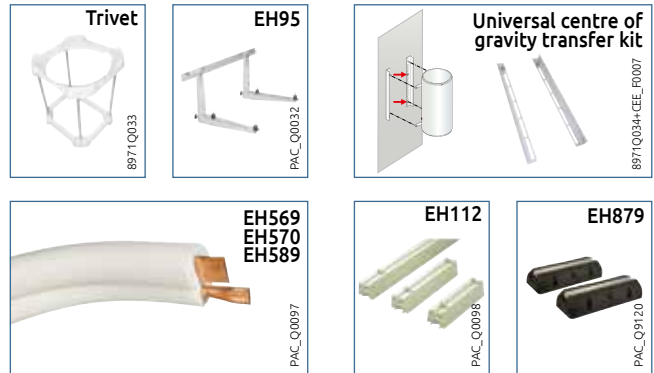
OPTIONS AND EXAMPLES OF INSTALLATION

FOR KALIKO SPLIT TWH WH

ALL OPTIONS EXCEPT CONTROL UNITS

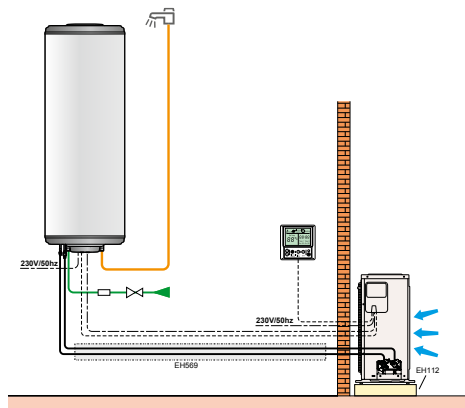
ACCESSORIES

	PACKAGE	REF.
Wall bracket + antivibration studs for outdoor unit	EH95	100011222
Floor support kit for outdoor module	EH112	100012533
Refrigeration connection 1/4" - 3/8":		
• length 5 m	EH569	7627741
• length 10 m	EH570	7627742
• length 20 m	EH589	7629725
Trivet for floor mounting	-	89788949
Universal centre of gravity transfer kit (to replace an existing water heater)	-	100019794
Floor installation rubber base	EH879	7694974
Imposed current anode	AJ38	89757752



EXAMPLES OF INSTALLATION

Kaliko Split TWH WH 150 E

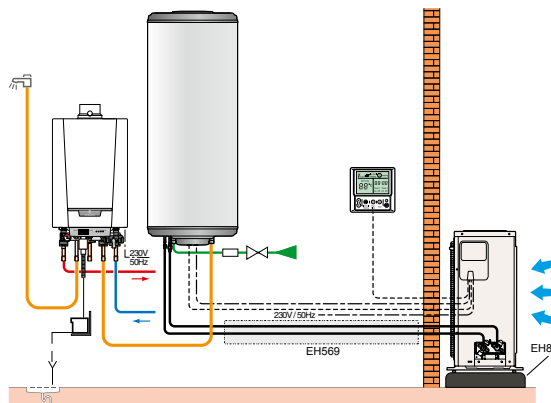


TWH_F0073

DESCRIPTION

	PACKAGE	REF.
Thermodynamic water heater TWH WH 150 E	-	7632383
Refrigeration connection 1/4" - 3/8", lg 5 m	EH569	7627741
Floor support kit for outdoor module	EH112	100012533

Kaliko Split TWH WH 200 E optimised or hybrid



TWH_F1000

DESCRIPTION

	PACKAGE	REF.
Thermodynamic water heater TWH WH 200 E	-	7632382
Refrigeration connection 1/4" - 3/8", lg 5 m	EH569	7627741
Floor installation rubber base	EH879	7694974
Boiler EMC-S 24/28 MI	HP145	7792983

THERMODYNAMIC WATER HEATER

THERMODYNAMIC WATER HEATER ON AMBIENT AIR OR ON OUTSIDE AIR

EASYLIFE

Elensio

200, 200 H, 250, 250 H

point

DHW until 65°C
Easy installation



Model: 200 H - 250 H

A+



Floor-standing thermodynamic water heater with storage

- Elensio 200 and 250 with electrical backup of 1,8 kW.
- Elensio 200H and 250H with heat exchanger for connection to a boiler or solar, and electrical safety resistance of 1,8 kW.
- Connection possible on ambient air or outside air (min. -5°C, max 30°C).
- Heating of DHW until 65°C.

- Enamelled tank, protection by imposed current anode.
- Rotary compressor.
- Evaporator made of copper pipes and aluminium vanes.
- New high efficiency condenser fitted around the tank.
- Specific regulator for a DHW application, including programming various operating modes, auxiliary heating management, anti-legionella function, anti-freeze mode, automatic defrosting.

- Packaging: 1 package

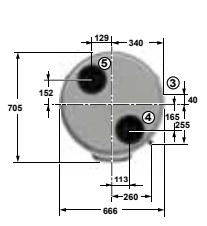
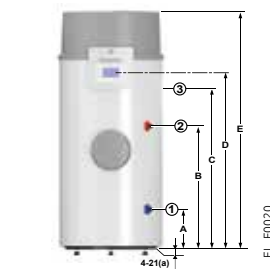
OPTIONS: see next page

DIMENSIONS (mm)

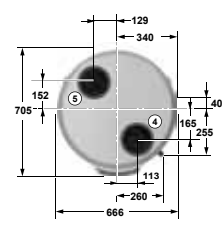
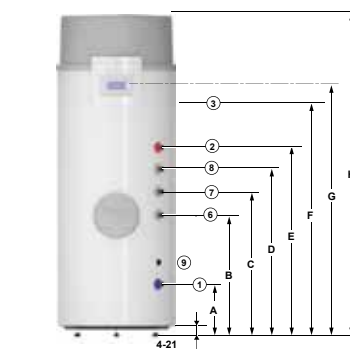
- Domestic cold water inlet (without or with dielectric connector) G 3/4"
 - DHW outlet (without or with dielectric connector) G 3/4"
 - Condensates evacuation
 - Air inlet Ø 160 mm
 - Air outlet Ø 160 mm
 - Hydraulic exchanger inlet G 3/4" (only for H versions)
 - Hydraulic exchanger outlet G 3/4" (only for H versions)
 - Connection for DWW circulating pump (Only for H versions)
 - Sensor tube for exchanger sensor (only for H versions)
- (1) Adjustable feet from 4 mm to 21 mm

	Elensio 200	250	200 H	250 H
A (mm)	254	253	254	253
B (mm)	789	1 018	369	636
C (mm)	1 028	1 257	670	763
D (mm)	1 134	1 257	769	902
E (mm)	1 528	1 760	789	1 018
F (mm)	-	-	1 028	1 257
G (mm)	-	-	1 134	1 363
H (mm)	-	-	1 528	1 760

ELENSIO 200 - 250



ELENSIO 200 H - 250 H



TECHNICAL SPECIFICATIONS

Max. operating temp.:
Tank: 90 °C
Exchanger (TWH 300 EH): 90 °C

Max. operating pressure:
Tank: 10 bar
Exchanger (TWH 300 EH): 10 bar

Air temperature for heat pump
functioning: -5 to +35 °C

MODEL

	ELENSIO	200	200 H	250	250 H				
Capacity	l	196	188	251	243				
Heat pump output	W	2480	2480	2480	2480				
Absorbed electrical power by the heat pump	We	440-680	440-680	440-680	440-680				
Tapping profile	M	L	M	L	XL				
COP by inlet air temp. +7°C		2,56	3,09	2,63	3,15	3,15	3,48	3,00	3,28
Heating time	h	6h36	6h33	6h32	6h29	8h53	8h56	8h34	8h37
Mixed Water at 40°C - V40 (1)	l	260	255	258	249	337	338	320	318
Absorbed power stabilised (Pes) (1) (4)	W	23	23	21	22	25	25	30	30
Water heating energy efficiency η _{wh}	%	109	128	111	130	131	143	125	135
Exchanger surface	m ²	-	-	0,93	-	-	-	0,93	-
Maximal air flow rate	m ³ /h	380	380	380	380	380	380	380	380
Available air pressure	Pa	50	50	50	50	50	50	50	50
Maximal air connection length Ø 160 mm	m	20	20	20	20	20	20	20	20
Electrical backup	W	1800	1800	1800	1800	1800	1800	1800	1800
Power supply/circuit breaker	V/A	1/N/PE~230V	1/N/PE~230V	1/N/PE~230V	1/N/PE~230V	1/N/PE~230V	1/N/PE~230V	1/N/PE~230V	1/N/PE~230V
Sound Power level (inside) (5)	dB[A]	49	49	49	49	49	49	49	49
Sound power level in silent modus (5)	dB[A]	47,6	47,6	47,6	47,6	47,6	47,6	47,6	47,6
Soundpressure *	dB[A]	35	35	35	35	35	35	35	35
Refrigerant R290	kg	0,150	0,150	0,150	0,150	0,150	0,150	0,150	0,150
Weight empty	kg	88	102	99	113	99	113	99	113

(1) Values for heating from 10°C to > 52.5°C with an outside air temperature of +7°C according to EN 16147. (2) Cold water temp.: 10°C, primary temp.: 80°C (3) Output: 34, 1kW (4) Electricity consumption without hot water heating. * Measured at a distance of 2 m. (5) Value obtained at an average air temperature of 20 °C with a warming from 10 to 55 is obtained. Data given for information only: see website of the certification body

MODEL

	TWH	200	200 H	250	250 H
Package	HK407	HK407	HK406	HK404	HK405
Ref.		7785383	7785277	7785382	7784992

OPTIONS

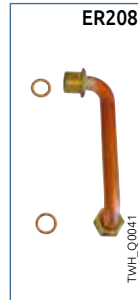
FOR ELENSIO

HYDRAULIC ACCESSORIES

	package	REF.
Hydraulic connection for safety kit	ER208	100019424

AIR CONNECTION ACCESSORIES

	package	REF.
Insulated flexible duct Ø 160 mm, length 3 m	EH206	100017622
Set of fixing clamps	EH207	100017623
2 x PPE tube, Ø 160 mm 1 m (delivered with 2 sleeves)	EH272	100019964
2 x PPE elbows, Ø 160 mm (delivered with 2 sleeves)	EH273	100019965
2 x PPE sleeves, Ø 160 mm	EH274	100019966
Vertical terminal (black) Ø 160 mm	EH275	100019967
Water tightness bed plate (Ø 160 mm) for flat roof	EH276	100019968
Gasket kit for galvanized elbow	HK437	7789976
Horizontal Terminal	HK506	7802056
Horizontal Connection Kit	HK438	7789239



DOMESTIC HOT WATER CALORIFIERS SELECTION GUIDE


To meet users' DHW comfort requirements, it is important to know the number of occupants and their consumption habits. Comfort is often linked to the volume of water available in 10 minutes.

We respond globally to meet these comfort requirements, and our boiler solutions include a DHW tank either inside the enclosure or in a column configuration under the boiler. For higher DHW requirements, our gas or oil boilers can be combined with our standalone tanks for added comfort and even higher volumes of available DHW.





SELECTION GUIDE FOR TANK/BOILER COMBINATIONS

	4 occupants	5 occupants	> 5 occupants	1 to 5 housing
Flow over 10 min. (L/10 min.)	< 200	240	330	230 to 740
Hot water calorifier capacity (L)	80 to 130	160	250	150 to 500

DOMESTIC HOT WATER PRODUCTION

				
	BMR 80	SRB 130	EL 160 SL	BLC...
Energy of the main or back-up generator	gas/fuel-oil	gas/fuel-oil	gas/fuel-oil	gas/fuel-oil/wood/HP
Energy class DHW				
Capacity	litre 80	130	160	150 to 500
Flow rate over 10 min. $\Delta t = 50\text{ K}$	(l/10 min.) 165	200	240 to 350	250 to 780
For installation	<ul style="list-style-type: none"> • floor-standing • wall-hung 	<ul style="list-style-type: none"> • floor-standing • wall-hung 	<ul style="list-style-type: none"> • floor-standing • wall-hung 	<ul style="list-style-type: none"> • floor-standing • wall-hung
Integrated electrical resistance	-	-	-	-
To be combined with the following types of boiler	Wall-hung	Wall-hung	Floor-standing type CFU C...Condens or CF/CFU EcoNox EcoNox or Twineo	Wall-hung/Floor-standing
Application	New build + Renovation	New build + Renovation	Renovation	New build + Renovation
Pages	189	189	191	190

DOMESTIC HOT WATER PRODUCTION

		
	L160SL	BPB...
Energy of the main or back-up generator	gas/fuel-oil	gas/fuel-oil/wood/HP
Energy class DHW		
Capacity	litre 160	150 to 500
Flow rate over 10 min. $\Delta t = 50\text{ K}$	(l/10 min.) 240	250 to 800
For installation	<ul style="list-style-type: none"> • floor-standing • wall-hung 	<ul style="list-style-type: none"> • floor-standing • wall-hung
Integrated electrical resistance	-	Option
To be combined with boilers type	Floor-standing type Modulens	Wall-hung/Floor-standing
Application	Renovation	New build + Renovation
Pages	191	192

DOMESTIC HOT WATER CALORIFIERS

CALORIFIERS TO COMBINE WITH WALL-HUNG BOILER

EASYLIFE



BMR 80



BMR 80 and SRB 130

80 or 130 l



- High-performance domestic hot water tanks:
- BMR 80: wall-mounted, to be positioned next to a boiler
 - SRB 130: positioned on the floor under the boiler
 - Steel tank and integrated coil exchanger protected by food-grade high-grade quartz glass:
 - inspection hatch
 - magnesium anode
 - very thick, CFC-free injected polyurethane foam insulation
 - M0 class lacquered sheet steel enclosure

- Packaging: - 1 package for BMR 80 (DHW sensor included)
- 1 package for SRB 130

EASYLIFE



SRB 130



MAIN DIMENSIONS (mm and inches)

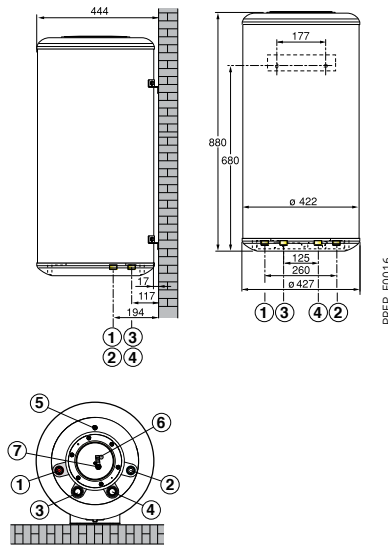
BMR 80

- DHW outlet R 3/4"
- Domestic cold water inlet R 3/4"
- Inlet exchanger G 3/4"
- Outlet exchanger G 3/4"
- Exchanger vent
- Sensor tube for DHW sensor
- Magnesium anode

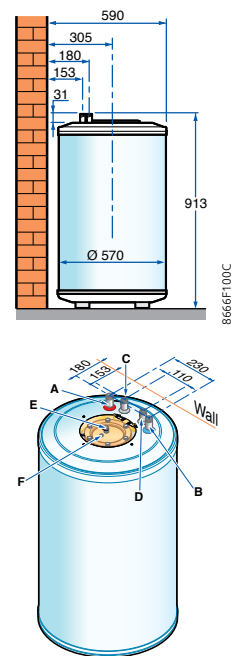
SRB 130

- Inlet exchanger G 3/4"
- Outlet exchanger G 3/4"
- DHW outlet R 3/4"
- Domestic cold water inlet R 3/4"
- Magnesium anode
- Sensor tube

BMR 80



SRB 130



TECHNICAL SPECIFICATIONS

Max. operating temperature: - primary (exchanger): 95°C
- secondary (tank): 95°C

Max. operating pressure: - primary (exchanger): 10 bar
- secondary (tank): 6 bar

MODEL

		BMR 80		SRB 130	
Capacity	L	80		125	
Exchanged power	kW	15	25	15	25
Specific rate at $\Delta T = 30$ K	L/min.	16	16	20	20
Flow per hour at $\Delta T = 35$ K	L/h	305	505	355	590
Flow over 10 min at $\Delta T = 30$ K	L/10 min.	165	165	200	200
Coefficient of heat losses	W/K	1.26		1.09	
Net weight	kg	48		68	

MODEL

	BMR 80	SRB 130
Package	EE53	EE81
Ref.	100005562	7681039

OPTIONS

OPTIONS

	PACKAGE	REF.
DHW sensor	AD226	100005661
DHW sensor	AD212	100000030
Connection kit SRB 130/Evodens AMC	EA137	100013532

OPTIONS

	PACKAGE	REF.
Connecting kit SRB 130/Naneo	HR92	7600413
Connecting kit BMR80/Naneo	HR93	7601255

DOMESTIC HOT WATER CALORIFIERS

DOMESTIC HOT WATER CALORIFIERS

EASYLIFE



up to
B

BLC 150, 200, 300, 400 and 500 from 150 to 500 l



DHW calorifiers, model "Comfort"

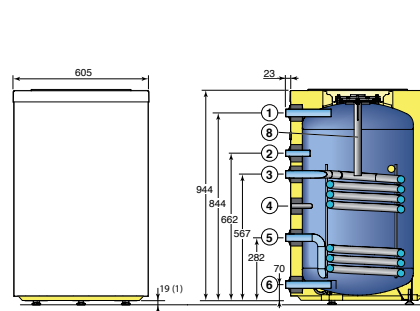
- Enamelled sheet steel tank of food standards quality by magnesium anode
- Exchanger in the form of an enamelled coil
- Lateral inspection trap DN 120
- Cold water inlet in the lower part also serving as drainage
- Insulated with 50 mm of injected polyurethane foam (0% CFC)
- Rigid ABS casing and white cover
- Packaging: 1 package

MAIN DIMENSIONS (mm and inches)

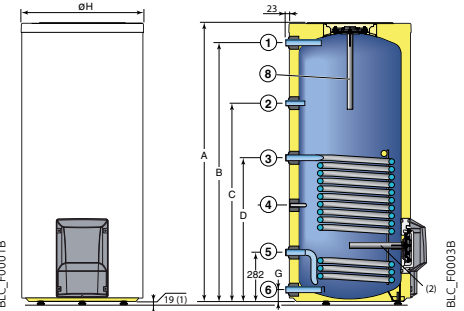
- DHW outlet G 1"
 - Circulation G 3/4"
 - Exchanger inlet G 1"
 - DHW sensor spot int. Ø 16.1 mm
 - Exchanger outlet G 1"
 - Drainage and domestic cold water inlet G 1"
 - Anode
- G: External cylindrical threading (watertightness by flat gasket)
 (1) Feet adjustable from 19 to 29 mm
 (2) For models 300, 400 and 500 liter

	BLC 200	BLC 300	BLC 400	BLC 500
A	1214	1734	1622	1740
B	1114	1634	1509	1618
C	840	1142	1155	1213
D	657	747	836	896
G	70	70	61	71
Ø H	610	610	710	760

BLC 150



BLC 200, 300, 400 and 500



TECHNICAL SPECIFICATIONS

Max. operating temperature: - primary (exchanger): 110°C
 - secondary (tank): 95°C

Max. operating pressure: - primary (exchanger): 10 bar
 - secondary (tank): 10 bar

MODEL

	BLC 150	BLC 200	BLC 300	BLC 400	BLC 500	
Energy efficiency class	B	C	C	C	C	
Capacity	l	145	195	295	390	495
Exchange surface	m ²	0.76	0.93	1.20	1.80	2.20
Nominal primary flow	m ³ /h	3	3	3	3	3
Primary circuit water resistance at nominal flow	kPa	11	12	13	17	20
Exchanged power at ΔT = 35 K (1)	kW	26	33	39	56	66
Flow per hour at ΔT = 35 K	l/h	640	810	960	1375	1620
Flow over 10 min at ΔT = 30 K (2)	l/10 min	250	340	520	670	780
Coefficient of heat losses	W/K	1.11	1.48	1.85	2.22	2.50
Standby consumption at ΔT = 45 K	kWh/24h	1.2	1.6	2.0	2.4	2.70
Net weight	kg	57	74	99	134	161

(1) Cold water temp.: 10°C, primary input temp.: 80°C, DHW temp.: 45°C (2) Cold water temp.: 10°C, primary input temp.: 80°C

MODEL

	BLC 150	BLC 200	BLC 300	BLC 400	BLC 500
Package	EC604	EC605	EC606	EC607	EC608
Ref.	100018088	100018089	100018090	100018091	100018092

OPTIONS AND ACCESSORIES

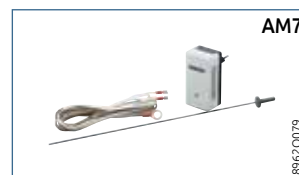
ACCESSORIES

	PACKAGE	REF.
SLA2 control unit for loading pump	EC320	100007832
BPB/BLC calorifier/boiler connection kit:		
• GT 224 and 225	EA117	100007835
• GT 226 to 228	EA118	100007836
• Evodens Pro AMC and Elidens C140	EA121	100007827
• CFU C...Condens and CF/CFU EcoNox	ER599	7639495
Connection kit BLC 150 to 300 litres calorifiers with ALEZIO heat pump	EH149	100015468
Shielded electrical resistance from 1.7 to 5.3 kW for BPB	EC740	7628986

ACCESSORIES

	PACKAGE	REF.
"Titan Active System" kit combined with a boiler fitted with the DIEMATIC 3 control panel	EC431	100010652
Imposed current anode for BLC 150-300 (1)	AJ38	89757752
Imposed current anode for BLC 400-500	AM7	89608920

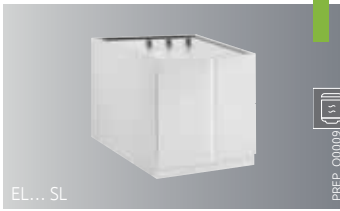
(1) The BLC 150 DHW tank cannot be fitted with an electrical resistance



DOMESTIC HOT WATER CALORIFIERS

CALORIFIERS TO PLACE UNDER A BOILER TYPE MODULENS, CFU C ... CONDENS OR CF/CFU ECONOX

EASYLIFE



EL... SL

ADVANCE



L... SL

L 160 SL and EL 160 SL

160 l



High-performance domestic hot water tanks to be positioned horizontally under the boiler:

- L160 SL: tank equipped with "Titan Active System®" protection, drain valve and connector for circulation loop
- EL160 SL: tank with magnesium anode protection
- Steel tank and integrated coil exchanger protected by food-grade high-grade quartz glass
- Inspection hatch
- Very thick, CFC-free injected polyurethane foam insulation
- M0 class lacquered sheet steel enclosure
- Adjustable feet

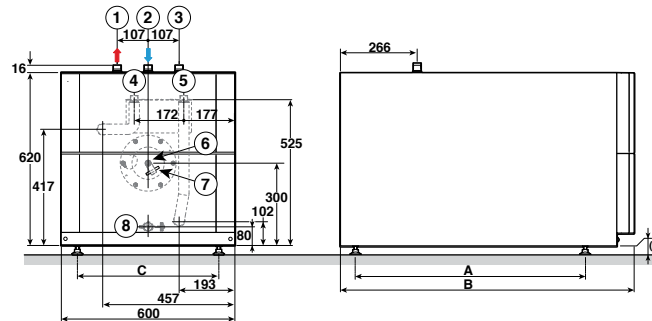
- Pre-wired DHW sensor
- Packaging: 1 package (DHW sensor included)

MAIN DIMENSIONS (mm and inches)

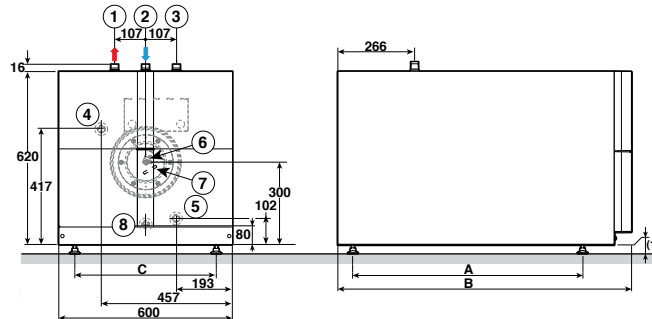
- DHW outlet G 3/4"
 - Domestic cold water inlet R 3/4"
 - Space for recirculation G 3/4" (Option)
 - Outlet exchanger G 3/4"
 - Inlet exchanger G 3/4"
 - L 160/250: impressed current anode
- EL 160/250: magnesium anode
 - Space for DHW sensor
 - L 160/250: drain tap 1/2"
- EL 160/250: drainage
- (1) Feet adjustable from 10 to 30 mm

(mm)	A	B	C
160L	794	1015	489

L 160 SL



EL 160 SL



TECHNICAL SPECIFICATIONS

Max. operating temperature: - primary (exchanger): 95°C
- secondary (tank): 95°C

Max. operating pressure: - primary (exchanger): 12 bar
- secondary (tank): 10 bar

MODEL

Capacity	L	L/EL 160 SL			
Exchanged power	kW	15	25	30	35
Specific flow rate at ΔT = 30 K	L/min.	20	24	24	25
Flow per hour at ΔT = 35 K	L/h	355	560	590	610
Flow over 10 min at ΔT = 30 K	L/10 min.	240	245	245	245
Coefficient of heat losses	W/K	1.52			
Net weight	kg	95			

MODEL

	L 160 SL	EL 160 SL
Package	EC600	ERS92
Ref.	100020079	7616405

OPTIONS

OPTIONS

	PACKAGE	REF.
Magnesium anode kit for MODULENS	EA103	100000492
Kit anode "ACI" for CFU C...Condens or CF/CFU EcoNox	MY475	7629841

NOTE

For 160-litre tanks combined with CFU C...Condens or CF/CFU EcoNox and Modulens, see CF/CFU.../VEL 160 SL and AGC/AFC.../VL 160 SL models in chapters 3 and 4.

DOMESTIC HOT WATER CALORIFIERS

DOMESTIC HOT WATER CALORIFIERS

ADVANCE

BPB 150, 200, 300, 401 and 501 from 150 to 500 l



DHW calorifiers, model "Performance"

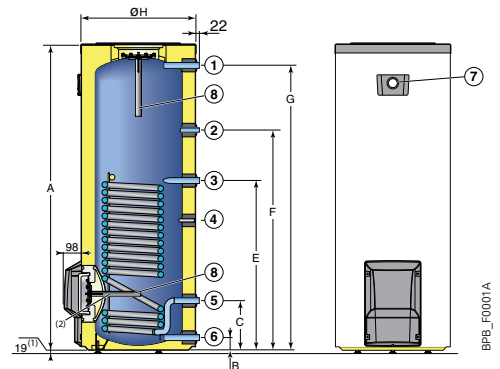
- Enamelled sheet steel tank of food standards quality, protection by magnesium anode
- Exchanger in the form of an enamelled coil with a larger exchange surface
- Lateral inspection trap DN 120 and thermometer
- Cold water inlet in the lower part also serving as drainage
- Insulated with 75 mm of injected polyurethane foam (0% CFC)
- ABS casing with glossy aspect and grey ABS cover
- **Packaging:** 1 package

MAIN DIMENSIONS (mm and inches)

- ① DHW outlet G 1"
- ② Circulation G 3/4"
- ③ Exchanger inlet G 1"
- ④ DHW sensor spot Ø int. 16.1 mm
- ⑤ Exchanger outlet G 1"
- ⑥ Drainage and domestic cold water inlet G 1"
- ⑦ Thermometer
- ⑧ Anode

	BPB 150	BPB 200	BPB 300	BPB 401	BPB 501
A	964	1234	1754	1642	1760
B	70	70	70	66	71
C	282	282	282	282	283
E	612	747	972	972	1152
F	692	910	1262	1220	1348
G	844	1114	1634	1509	1618
Ø H	660	660	660	760	810

- (1) Feet adjustable from 19 to 29 mm
- G: External cylindrical threading (watertightness by flat gasket)
- (2) For models 300, 400 and 500 liter



TECHNICAL SPECIFICATIONS

Max. operating temperature: - primary (exchanger): 110°C
- secondary (tank): 95°C

Max. operating pressure: - primary (exchanger): 10 bar
- secondary (tank): 10 bar

MODEL

		BPB 150	BPB 200	BPB 300	BPB 401	BPB 501
Capacity	l	145	195	290	385	485
Exchange surface	m ²	0.84	1.20	1.70	2.20	3.10
Nominal primary flow	m ³ /h	3	3	3	3	3
Primary circuit water resistance at nominal flow	kPa	12	14	17	20	26
Exchanged power at ΔT = 35 K (1)	kW	29	39	54	68	86
Flow per hour at ΔT = 35 K	l/h	710	960	1330	1670	2110
Flow over 10 min at ΔT = 30 K (2)	l/10 min	250	340	520	670	800
Coefficient of heat losses	W/K	1.02	1.20	1.48	1.55	1.82
Standby consumption at ΔT = 45 K	kWh/24h	1.1	1.3	1.6	1.68	1.97
Net weight	kg	57	74	99	134	161
Poids net	kg	57	74	99	134	161

(1) Cold water temp.: 10°C, primary input temp.: 80°C, DHW temp.: 45°C (2) Cold water temp.: 10°C, primary input temp.: 80°C

MODEL

	BPB 150	BPB 200	BPB 300	BPB 401	BPB 501
Package	EC609	EC610	EC611	EC790	EC795
Ref.	100018093	100018094	100018095	7682199	7682313

OPTIONS AND ACCESSORIES

OPTIONS

	PACKAGE	REF.
SLA2 control unit for loading pump	EC320	100007832
BPB/BLC calorifier/boiler connection kit:		
• GT 224, 225, GTU C 220	EA117	100007835
• GT 226 to 228	EA118	100007836
• Evodens PRO AMC and Elidens C140	EA121	100007827
• CFU C...Condens and CF/CFU EcoNox (not equipped)	ER599	7639495
Connection kit BPB 150 to 300 litres calorifiers with ALEZIO heat pump	EH149	100015468

ACCESSORIES

	PACKAGE	REF.
"Titan Active System®" kit combined with a boiler fitted with the DIEMATIC 3 control panel	EC431	100010652
Imposed current anode for BPB 150-300	AJ38	89757752
Electrical resistance 1.7 to 5.3 kW for BPB	EC740	7628986
Imposed current anode for BPB 401 and 501	AM7	89608920



COMMERCIAL RANGE SELECTION GUIDE

SEMI-STORAGE DHW PRODUCTION

INSTANTANEOUS HOT WATER PRODUCTION



Calorifiers
B650-3000



FWS 750/ FWS 1300



RSB



FWPC



FWP

DHW PRODUCTION AT 60°C	Calorifiers B650-3000	FWS 750/ FWS 1300	RSB	FWPC	FWP
- over 10 minutes	< 3 m ³	< 0.8 m ³	< 3 m ³	< 2 m ³	< 1.5 m ³
- continuous	< 3 m ³ /h	< 3.5 m ³ /h	-	< 12 m ³ /h	< 9 m ³ /h
- per day	-	-	< 9 m ³ /h	-	-
Associated heat generator	condensing (or not) boiler	all energies	condensing boiler	condensing boiler	condensing boiler
Energy	gas/fuel oil	gas/fuel oil	solar	gas/fuel oil	fuel oil
Avantages solutions	Optimisation via management with two DHW sensors	Small footprint for high performance	Easy to use	Condensation optimisation via cooling returns	Small footprint for high performance
Related products	B650 to 3000 (p196)	FWS 750 and 1300 (p197)	RSB (p201)	FWPC 3013 to 9097 (p198)	FWP 1217 to 1855 (p200)

ESTIMATE OF DAILY NEED

- In collective housing / Home / Residence

	DHW needs at 60°C in L/day
1/2 rooms with shower	72
1/2 rooms with bath	108
3/4 rooms with bath	120
3/4 rooms with shower + bath	156
5/6 rooms with bath	144
5/6 rooms with shower + bath	156
5/6 rooms avec 2 x bath	180

- Tertiary sector

- Hotels

The daily DHW demand depends on the number of stars, rooms and daily meals:

Hotel categorie (number of stars)	DHW needs at 60°C in L/day					
	0*	*	**	***	****	*****
Room	60	70	100	120	150	180
Meal	8	8	12	15	20	20
Breakfast	4	4	4	4	4	4

- Catering

The daily DHW demand depends on the type of catering and the number of meals:

Catering type	DHW needs at 60°C in L/day			
	Standard	Luxury	Fast food	Canteen
Meal	12	20	6	5

WITH ELECTRICAL RESISTANCE



RSB

DHW PRODUCTION WITH RENEWABLE ENERGIES

INSTANT DHW PRODUCTION



FWPS

PREHEATING BY SOLAR ENERGY

Calorifiers
B/RSB/FWS/FWPSF

		Preheating volume (if sun) for 15 m ² of sensor
< 3 m ³	< 0.9 m ³	-
-	< 5.5 m ³ /h	< 0.04 m ³ /h
< 9 m ³	-	1 m ² /15 m ² (if stored volume)
resistance	condensing boiler	condensing boiler/ CEE-CBG-...
electricity	solar	solar
Simple to use	Optimize the contribution of the renewable energies	Renewable energies contribution on any type of primary production
RSB (p201)	FWPS 3035 to 5089 (p199)	Solar equipment (chapter 10)

- Boarding school

The daily DHW demand depends on the number of bedrooms:

Room	DHW needs at 60°C in L/day
Room	60

- Hospital/Clinic

The daily DHW demand depends on the number of beds and daily meals (patients + staff):

	DHW needs at 60°C in L/day
Bed	70
Meal	12

- Campsite/Outdoor tourism site

The daily DHW demand depends on the campsite's number of stars. For coastal campsites, 25 % should be added to the values shown below:

Campsite classification	**	***	****
Location	40	50	60

- Nursing/retirement home

The daily DHW demand depends on the number of beds and daily meals (residents + staff):

	DHW needs at 60°C in L/day
Bed	40
Meal	10

- Sports centre and swimming pool

The daily DHW demand depends on the daily number of showers and the type of shower:

	DHW needs at 60°C in L/day
Standard shower	30
Push-button shower	20

COMMERCIAL DOMESTIC HOT WATER CALORIFIERS

DOMESTIC HOT WATER CALORIFIERS

PROJECT

B 650 to 3000 HR/M0 HR

From 650 to 3000 l



- High performance independent DHW calorifiers
- Enamelled sheet steel tank, protection by magnesium
- Exchanger in form of an enamelled coil
- Insulation available in 2 versions:
 - **Rigid outer casing (HR)** in 100 mm thick mineral wool with external skin in PVC, with M1 fire classification.
 - **Rigid outer casing (M0 HR)** in 100 mm thick mineral wool with external aluminium skin with M0 fire classification.
 - **Flexible mineral wool casing (HS)** 100 mm thick, with PVC outer skin, M1 fire classification
- **Packaging:** 2 packages



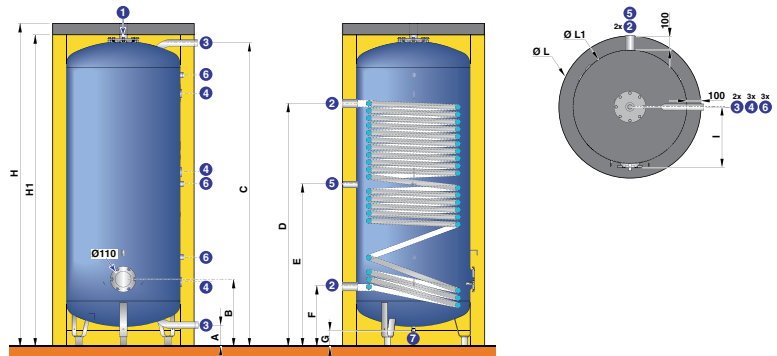
(B... HR)

RSB_Q0004A

MAIN DIMENSIONS (mm and inches)

- ① Outlet DHW/ purge 2"
- ② Inlet/Outlet exchanger Rp 1" 1/2
- ③ Inlet/Outlet DHW
- ④ Sensor tube Ø 6 mm
- ⑤ Recirculation Rp 1"
- ⑥ Connection for sensor tube/anodes 3/4"
- ⑦ Drainage with plug R 3/4"

R: Conical threading
Rp: Tapped connection



PREP_F0005

B...	Ø ③	H	H1	Ø L	Ø L1	A	B	C	D	E	F	G	I
650	R 1" 1/2	1796	1696	990	790	150	470	1588	1338	869	420	107	425
800	R 1" 1/2	2107	2007	990	790	150	470	1899	1338	1025	420	107	425
1000	R 1" 1/2	2323	2223	990	790	150	470	2115	1695	1133	420	107	425
1500	R 1" 1/2	2061	1961	1300	1100	150	502	1799	1542	975	452	59	584
2000	R 1" 1/2	2292	2192	1300	1100	150	502	2040	1542	1095	452	59	584
2500	R 2"	2086	1986	1600	1400	185	530	1740	1215	963	450	27	-
3000	R 2"	2248	2148	1600	1400	185	530	1902	1215	1044	450	27	-

TECHNICAL SPECIFICATIONS

Max. operating temperature: - primary (exchanger): 110°C
- secondary (tank): 95°C

Max. operating pressure: - primary (exchanger): 12 bar
- secondary (tank): 7 bar

MODEL

	B... HR/HS	650	800	1000	1500	2000	2500	3000
Capacity	l	650	780	980	1500	2000	2500	3000
DHW exchanger surface	m ²	4	4	4.4	5.5	5.5	5.5	5.5
DHW coil capacity	l	30.4	30.4	33.4	41.8	41.8	41.8	41.8
Coefficient of heat losses (HR/HS)	W/K	2.5/2.7	2.8/3.0	2.9/3.2	3.4/3.8	3.8/4.4	4.1/4.6	4.6/4.8
► DHW performance (ΔT primary 15 K)								
Boiler outlet temperature	°C	70	70	70	70	70	70	70
60°C DHW boiler outlet temperature:								
- Max. exchanged power	kW	68	68	75	94	94	138	138
- Continuous flow	m ³ /h	1.2	1.2	1.3	1.6	1.6	2.4	2.4
- DHW coil pressure drop	mCE	1.2	1.2	1.5	2.9	2.9	6.1	2.9
45°C DHW boiler outlet temperature:								
- Max. exchanged power	kW	100	100	110	138	138	182	138
- Continuous flow	m ³ /h	2.5	2.5	2.7	3.4	3.4	4.5	3.4
- DHW coil pressure drop	mCE	2.4	2.4	3.0	6.1	6.1	10.2	6.1
Net weight	kg	275	290	327	423	460	565	644

Cold water temperature: 10°C

MODEL

	650	800	1000	1500	2000	2500	3000
Tank	Package AJ78	AJ79	AJ80	AJ81	AJ82	AJ83	AJ84
	Ref. 7650480	7650481	7650482	7650483	7650484	7650485	7650486
Rigid casing (B...HR)	Package AJ94	AJ95	AJ97	AJ99	AJ101	AJ103	AJ105
	Ref. 7650496	7650497	7650499	7650502	7650506	7650508	7650511
Rigid casing (B... M0 HR) (M0 fire classification)	Package -	AJ141	AJ142	AJ143	AJ144	AJ145	AJ146
	Ref. -	7650583	7650584	7650585	7650587	7650589	7650590
Flexible casing HS (B...HS) (M1 fire classification)	Package -	AJ115	AJ117	AJ119	AJ121	AJ123	AJ125
	Ref. -	7650534	7650554	7650558	7650561	7650563	7650566

OPTIONS

ACCESSORIES

	PACKAGE	REF.
Thermometer	AJ32	89757746
Sensor tube 1/2" (lg 350 mm)	AJ162	7651078
Imposed current anode	AM7	89608920

ACCESSORIES

	PACKAGE	REF.
Shielded electrical resistance mounted on flange DN110:		
• 9 kW/400V	AJ162	7651086
• 15 kW/400 V	AJ165	7651088
• 30 kW/400 V	AJ166	7651116

COMMERCIAL DOMESTIC HOT WATER CALORIFIERS

INSTANTANEOUS HOT WATER PRODUCTION FOR INSTALLATIONS IN BLOCK OF FLATS



Instantaneous DHW tank with anti-Legionella system

PROJECT



FWS 750/ 1300

750 l and 1300 l



DHW tank for instant hot water production through an exchanger

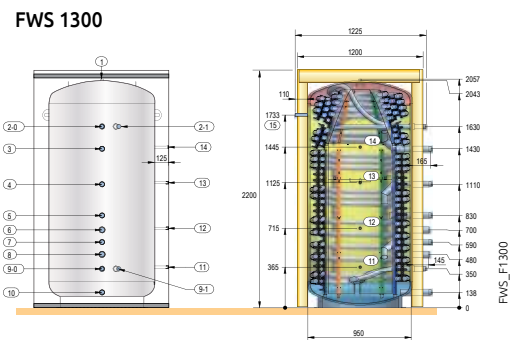
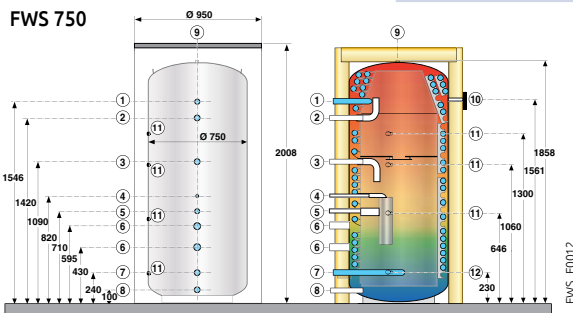
- High output DHW exchanger in ribbed stainless steel 1.4404 tubing to prevent lime scale deposits on the exchange surfaces and guarantee continual, maintenance-free exchange
- Tank in rust-proofed steel for storing heating water, avoiding the cycling of low draw-off boilers
- 100mm thick insulation in flexible polyester fibre with semi-rigid external skin
- All detachable for easy connection of the DHW tank
- For use with a solar system, the DHW tanks must be combined with a STS solar station.
- **Packaging:** 1 package

MAIN-DIMENSIONS (mm and inches for FWS 1300)

1	Location for air vent R 1/2"
2-0	Domestic hot water outlet R 1" 1/4
2-1	Domestic hot water outlet R 1" 1/4
3	Boiler inlet R 1" 1/2
4	Return Boiler with solar R 1" 1/2
5	Inlet renewable (solar or HP) R 1" 1/2
6	Electrical resistance G 1" 1/2
7	Return boiler without renewable R 1" 1/2
8	Electrical resistance G 1" 1/2
9-0, 9-1	Cold water inlet R 1" 1/4
10	Return renewable (solar or HP) R 1" 1/4
11	Sensor tube for solar sensor Ø17 mm
12	Sensor tube for HP sensor Ø17 mm
13-14	Immersion sleeve for DHW sensor - Backupt Ø17 mm
15	Thermometer Rp 1/2"

MAIN DIMENSIONS (mm and inches)

- | | |
|---|---|
| ① Domestic hot water outlet R 1" 1/4 | ⑦ Domestic cold water inlet R 1" 1/4 |
| ② Boiler inlet R 1" 1/4 | ⑧ Solar circuit outlet/drainage
Boiler outlet if no solar circuit R 1" 1/4 |
| ③ Boiler return with solar R 1" 1/4 | ⑨ Location for air vent Rp 1/2" |
| ④ Solar circuit inlet R 3/4" | ⑩ Thermometer Rp 1/2" |
| ⑤ Boiler return R 1" 1/4 | ⑪ Sensor tube for DHW sensor |
| ⑥ Location for electrical resistance G 1" 1/2 | ⑫ Sensor tube for solar sensor |



TECHNICAL SPECIFICATIONS

- | | |
|------------------------|-----------------------------|
| Operating pressure: | Max. operating temperature: |
| - tank: 3 bar | - tank: 95°C |
| - DHW exchanger: 7 bar | |

MODEL

Energy efficiency class		FWS 750	FWS 1300
Total storage volume	l	700	1 300
DHW coil capacity	l	52	105
DHW exchange surface	m ²	9,6	18
DHW coil pressure drop at 2 m ³ /h / 4 m ³ /h / 6 m ³ /h	bar	0,2/0,8/2,0	0,1/0,4/1,0
Coefficient of heat losses	W/K	4,1	8,1
Cooling constant Cr	Wh/j.K.l.	0,14	-
▶ Boiler outlet temperature	°C	80	80
45°C DHW outlet temperature			
- Max. exchanged power (1)	kW	210	230
- Max. continuous flow (1)	l/h	4800	5500
- Flow over 10 min	l/10 min.	800	1200
60°C DHW outlet temperature			
- Max. exchanged power (1)	kW	230	250
- Max. continuous flow (1)	l/h	3900	4300
- Flow over 10 min	l/10 min.	650	950
Net weight	kg	260	305

(1) Cold water temperature: 10°C, primary inlet temperature: 80°C. Boiler connected in ② and ⑧ (without solar).

MODEL

	FWS 750	FWS 1300
Package	EC800	-
Ref.	7696903	7801377

OPTIONS

ACCESSORIES

	PACKAGE	REF.
Pipe in pipe system	ER29	100015099
Thermometer	AJ32	89757746
Electrical resistance 6kW/400V with setting thermostat	AJ36	89757750



COMMERCIAL DOMESTIC HOT WATER PLATE EXCHANGERS

PLATE EXCHANGERS FOR INSTANT DHW PRODUCTION LOW TEMPERATURE FOR BLOCKS OR FLATS

PROJECT



FWPC

From 110 to 750 kW



Range of plate exchangers for instantaneous DHW production "Low Temperature" with a primary return temperature at 30°C helping to optimise the efficacy of the system with condensing boilers for DHW flow rates at 60°C of up to 13 m³/h.

- Factory assembled and wired, delivered tested pursuant to Directives EU 73/23 EC and PED 97/23 EC ART. 3.3
- Hard-wearing, reliable compact plate exchangers, including a stainless steel plate exchanger mounted on a base frame, dual primary pump, primary mixing valve, DHW safety valve and control system for autonomous, proactive tank operation with a constant,

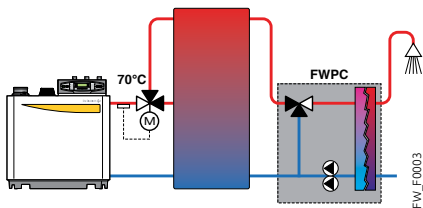
instantaneous DHW temperature irrespective of the flow rate.

- Unique primary flow rate control concept to ensure a low return temperature in order to optimise condensation in the boiler.
- Optimal operation on a primary set to 70°C to limit scaling in areas with very hard water.
- **Packaging:** 1 package

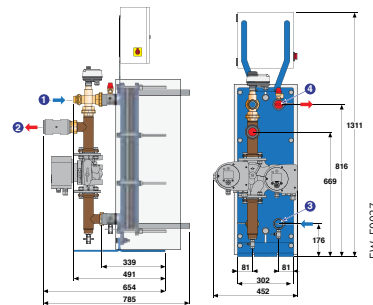
MAIN DIMENSIONS (mm and inches)

	FWPC 3000	FWPC 5000	FWPC 7000	FWPC 9000
① Primary inlet	G 1" F	G 1" 1/2 F	G 1" 1/2 F	G 1" 1/2 F
② Primary outlet	G 1" 1/2 F	G 1" 1/2 F	G 1" 1/2 F	G 2" F
③ Domestic cold water inlet	G 2" M	G 2" M	G 2" M	G 2" M
④ DHW outlet	G 2" M	G 2" M	G 2" M	G 2" M

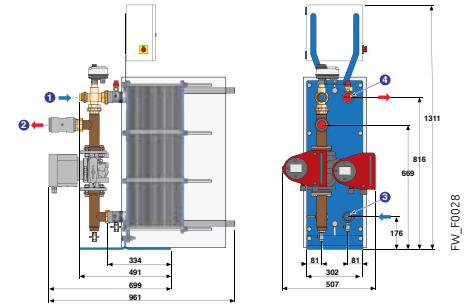
PRINCIPLE OF FUNCTIONING



FWPC 3000, 5000 and 7000



FWPC 9000



TECHNICAL SPECIFICATIONS

Primary circuit:	Secondary circuit (DHW):
- Working temp.: 70/35°C	- Working temp.: 10/60°C
- Max. operating temperature: 110°C	- Max. operating temperature: 100°C
- Max. operating pressure: 10 bar	- Max. operating pressure: 10 bar

MODEL

	FWPC 3013-100	3017-180	3027-250	5037-350	7045-500	7069-650	9097-750
Number of plates	13	17	27	37	45	69	97
Outlet	kW	110	180	250	350	510	750
Primary flow	m ³ /h	2.6	4.2	5.6	7.8	11.8	15.3
Primary circuit manometric height available	kPa	40	11	13	25	28	8
Instant DHW flow	l/min	31	51	71	100	146	215
Secondary circuit water resistance	kPa	10	11	10	11	15	9
Shipping weight	kg	183	193	198	243	258	293

MODEL

	FWPC 3013-100	3017-180	3027-250	5037-350	7045-500	7069-650	9097-750
(available only on request, delivery time 4 weeks)	Package	EC768	EC769	EC770	EC771	EC772	EC773
	Ref.	7661869	7661871	7661872	7661873	7661875	7661876
							7661877

OPTIONS

ACCESSORIES

	PACKAGE	REF.
3-way valve (for solar back-up)	EC680	7606027
Three way valve for stratification optimisation (without solar appoint)	EC775	7661878
3-way valve preheating	EC681	7606028

BUFFER TANK

PSB 600 to 3000	see chapter 11
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COMMERCIAL DOMESTIC HOT WATER PLATE EXCHANGERS

PLATE EXCHANGERS FOR INSTANT DHW PRODUCTION VLT FOR BLOCKS OR FLATS

PROJECT



FWPS

from 105 to 300 kW



Range of plate exchangers for instantaneous DHW production "Very Low Temperature" with preheating by solar system or heat pump, for DHW flow rates at 60°C of up to 5.5 m³/h.

- Factory assembled and wired, delivered tested pursuant to Directives EU 73/23 EC and PED 97/23 EC ART. 3.3
- Hard-wearing, reliable compact plate exchangers, including a detachable stainless steel plate exchanger mounted on a base frame, dual primary pump, primary mixing valve, DHW safety valve and control system for autonomous, proactive tank operation

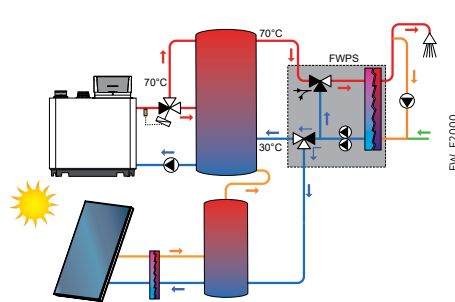
with a constant, instantaneous DHW temperature irrespective of the flow rate.

- Unique primary flow rate control concept to ensure a low return temperature in order to maximise contributions from renewable energy managed by an integrated 3-way valve.
- Operates on a primary set to 70°C to limit scaling in areas with very hard water.
- Packaging: 1 package

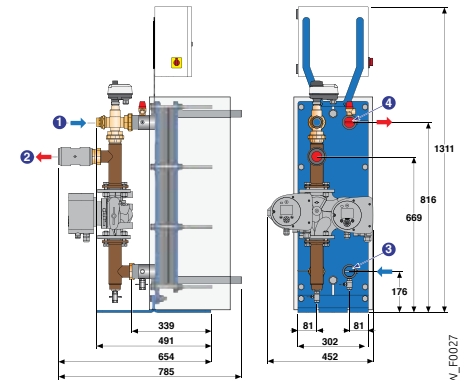
MAIN DIMENSIONS (mm and inches)

	FWPS 3000	FWPS 5000
① Primary inlet	G 1" F	G 1" 1/2 F
② Primary outlet	G 1" 1/2 F	G 1" 1/2 F
③ Domestic cold water inlet	G 2" M	G 2" M
④ DHW outlet	G 2" M	G 2" M

PRINCIPLE OF FUNCTIONING



FWP 3000, 5000



TECHNICAL SPECIFICATIONS

Primary circuit:	Secondary circuit (DHW):
- Working temp.: 70/30°C	- Working temp.: 10/60°C
- Max. operating temperature: 110°C	- Max. operating temperature: 100°C
- Max. operating pressure: 10 bar	- Max. operating pressure: 10 bar

MODEL

	FWPS	3035-100	3061-200	5089-300
Number of plates		35	61	89
Outlet	kW	105	190	300
Primary flow	m ³ /h	1.8	3.4	5.5
Primary circuit manometric height available	kPa	53	19	15
Instant DHW flow	l/min	30	50	91
Shipping weight	kg	203	228	283

MODEL

(available only on request, delivery time 4 weeks)

	FWPS	3035-100	3061-200	5089-300
Package		EC776	EC777	EC778
Ref.		7661879	7661880	7661882

OPTIONS

ACCESSORIES

3-way valve preheating sensor

PACKAGE	REF.
EC681	7606028

BUFFER TANK

PSB 600 to 3000

see chapter 11

COMMERCIAL DOMESTIC HOT WATER PLATE EXCHANGERS

PLATE EXCHANGERS FOR INSTANT DHW PRODUCTION IN BLOCK OF FLATS

PROJECT



FWP from 60 to 520 kW



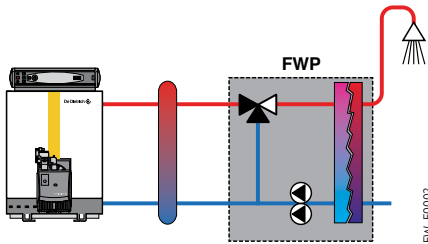
Range of Plate exchangers for instantaneous DHW production with primary at $\Delta T = 25$ K, for DHW flow rates at 60°C of up to $9\text{ m}^3/\text{h}$.

- Factory assembled and wired, delivered tested pursuant to Directives EU 73/23 EC and PED 97/23 EC ART. 3.3
- Hard-wearing, reliable compact plate exchangers, including a stainless steel plate exchanger mounted on a base frame, dual primary pump with energy efficiency index $EEL < 0.23$, primary mixing valve, DHW safety valve and intelligent, self-adapting control system suitable for all conventional installations on the replacement market.

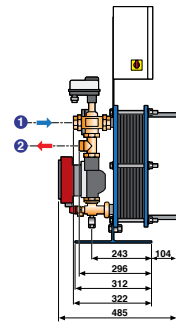
- Conventional plate exchanger design for the renovation market with primary temperatures $> 70^\circ\text{C}$ on constant temperature boilers.
- Packaging: 1 package

	FWP 1200/1400	FWP 1600/1800
① Primary inlet	DN32	DN40
② Primary outlet	DN32	DN40
③ Domestic cold water inlet	DN32	DN50
④ DHW outlet	DN32	DN50

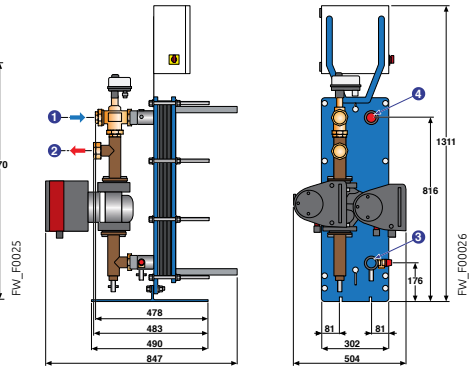
PRINCIPLE OF FUNCTIONING



FWP 1200 and 1400



FWP 1600 and 1800



TECHNICAL SPECIFICATIONS

Primary circuit:	Secondary circuit (DHW):
- Working temp.: $90/70^\circ\text{C}$	- Working temp.: $10/60^\circ\text{C}$
- Max. operating temperature: 110°C	- Max. operating temperature: 90°C
- Max. operating pressure: 10 bar	- Max. operating pressure: 10 bar

MODEL

	FWP	1217-60	1427-110	1445-170	1617-250	1831-400	1855-520
Number of plates		17	27	45	17	31	55
Primary flow	m^3/h	2.9	5.2	6.3	12.2	14.3	15.4
Primary circuit manometric height available	kPa	5	5	5	5	5	5
Primary temperature	$^\circ\text{C}$	70	90	70	90	70	90
Output	kW	60	125	115	235	175	340
Instant DHW flow	l/min	17	36	33	68	50	98
Secondary circuit water resistance	kPa	5	21	8	29	7	23
Shipping weight	kg	78	82	88	210	218	226

MODEL

	FWP	1217-60	1427-110	1445-170	1617-250	1831-400	1855-520
(available only on request, delivery time 4 weeks)	Package	EC477	EC478	EC479	EC480	EC481	EC482
	Ref.	7631094	7631095	7631096	7631097	7631099	7631100

OPTIONS

ACCESSORIES

	PACKAGE	REF.
Insulation for plate exchangers:		
• FWP 1200, 1400	EC483	7631101
• FWP 1600, 1800	EC484	7631102

COMMERCIAL DOMESTIC HOT WATER CALORIFIERS

DOMESTIC HOT WATER

PROJECT



RSB 800 to 3000 HR/HS

Storage Tank from 800 to 3000 l

point

DHW capacity
up to 3000 litres



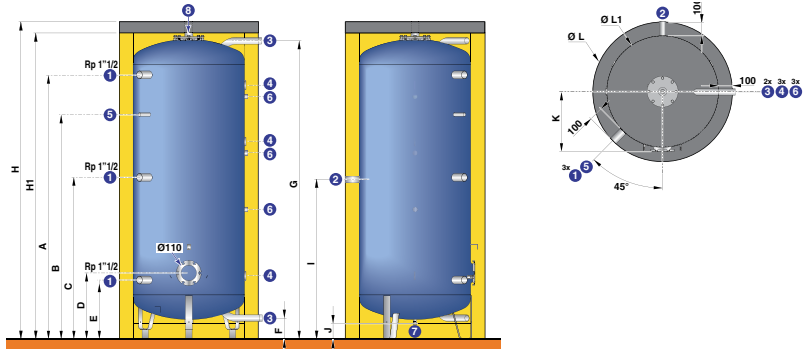
- DHW storage tank in very thick enamelled steel;
- High performance enamel lining especially suited to the requirements of solar water storage, which can handle very high temperatures;
 - Tank protection by magnesium anode
 - DN 110 side inspection trap
 - 1" 1/2 coupling for additional electric resistor in the middle section (option)
 - Drainage from the bottom of the tank for easy cleaning;
 - Sensor holder prong for ideal positioning of the sensors according to everyone's needs;

- Insulation available in 3 versions:
 - **Rigid outer casing (HR)** in 100 mm thick polyester fibers with external skin in polystyrol.
 - **Flexible outer casing (HS)** in 100 mm thick mineral wool with external skin in PVC, with M1 fire classification.
 - **Rigid outer casing (M0 HR)** for RSB 800 in 100 mm thick mineral wool with external aluminium skin with M0 fire classification.
- **Packaging:** 2 packages (tank and casing)

MAIN DIMENSIONS (mm and inches)

- ① ③ Inlet/Outlet DHW
- ② Recirculation Rp 1"
- ④ Sensor tube Ø 6 mm
- ⑤ Tube for thermometer 1/2"
- ⑥ Connection for sensor tube / anodes 3/4"
- ⑦ Drainage with plug R 3/4"
- ⑧ DHW outlet / purge Rp 2"

R: Conical threading
Rp: Tapped connection



PREP_F0003

RSB...HR (mm)	Ø ③	H	H1	Ø L	Ø L1	A	B	C	D	E	F	G	I	J	K
800	R 1" 1/2	2055	1955	990	790	1629	1303	976	470	420	150	1899	1025	107	425
1000	R 1" 1/2	2271	2171	990	790	1873	1593	1147	470	420	150	2115	1133	107	425
1500	R 1" 1/2	2011	1911	1300	1100	1502	1302	1002	502	452	150	1799	975	59	584
2000	R 1" 1/2	2252	2152	1300	1100	1740	1418	1096	502	452	150	2040	1095	59	584
2500	R 2"	2033	2026	1600	1400	1446	1230	963	530	480	185	1740	963	27	733
3000	R 2"	2195	2098	1600	1400	1610	1339	1045	530	480	185	1902	1044	27	734

TECHNICAL SPECIFICATIONS

Max. operating temperature: 95°C : Max. operating pressure: 7 bar

MODEL

	RSB... HR/HS	800	1000	1500	2000	2500	3000
Energy efficiency class		C	C	C	C	-	-
Storage volume	l	800	1000	1500	2000	2500	3000
Coefficient of heat losses (casing HR/HS)	W/K	2.8/3.0	2.9/3.2	3.4/3.8	3.8/4.4	4.1/4.6	4.6/4.8
Net weight	kg	255	265	340	372	450	541

MODEL

	RSB... HR/HS	800	1000	1500	2000	2500	3000
Tank (Ø 110 mm inspection trap)	Package	AJ72	AJ67	AJ68	AJ69	AJ70	AJ71
	Ref.	7650474	7650469	7650470	7650471	7650472	7650473
Rigide casing (RSB...HR)	Package	AJ95	AJ97	AJ99	AJ101	AJ103	AJ105
	Ref.	7650497	7650499	7650502	7650506	7650508	7650511
Flexible casing (RSB...HS) (M1 fire classification)	Package	AJ115	AJ117	AJ119	AJ121	AJ123	AJ125
	Ref.	7650534	7650554	7650558	7650561	7650563	7650566
Rigide casing (RSB 800 M0 HR) (M0 fire classification)	Package	AJ141	-	-	-	-	-
	Ref.	7650583	-	-	-	-	-

OPTIONS

ACCESSORIES

	PACKAGE	REF.
Imposed current anode	AM7	89608920
Lateral Ø 110 mm output flange 1"1/2	AJ163	7651082
Sensor tube 1/2" (lg 350 mm)	AJ162	7651078

ACCESSORIES

	PACKAGE	REF.
Shielded electrical resistance mounted on flange, Ø 110 mm:		
• 9 kW/400 V	AJ164	7651086
• 15 kW/400 V	AJ165	7651088
• 30 kW/400 V	AJ166	7651116
Thermometer	AJ32	89757746

COMMERCIAL DOMESTIC HOT WATER CALORIFIERS

DOMESTIC HOT WATER

PROJECT



PREP_00006

RSB 1000 to 3000 THS DN 400 HS/HR

Storage Tank from 1000 to 3000 l

point

DHW capacity
up to 3000 litres

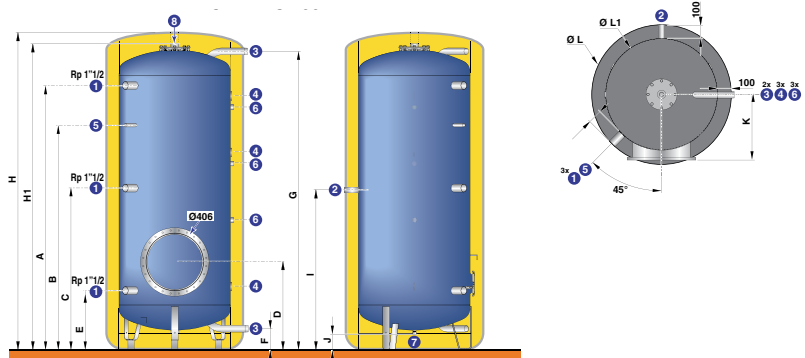


- DHW storage tank in very thick enamelled steel;
- High performance enamel lining especially suited to the requirements of solar water storage, which can handle very high temperatures;
 - Tank protection by magnesium anode
 - DN 400 side inspection trap
 - Blinded electric resistor mounted on flange Ø 400 mm (option)
 - Drainage from the bottom of the tank for easy cleaning
 - Sensor holder prong for ideal positioning of the sensors according to everyone's needs

- Insulation available in 2 versions:
 - Flexible outer casing (HS) in 100 mm thick mineral wool with external skin in PVC, with M1 fire classification.
 - Rigid outer casing (M0 HR) in 100 mm thick mineral wool with external aluminium skin with M0 fire classification.
- Packaging: 2 packages (tank and casing)

MAIN DIMENSIONS (mm and inches)

- ③ Inlet /Outlet DHW
 - ② Recirculation Rp 1"
 - ④ Sensor tube Ø 6 mm
 - ⑤ Tube for thermometer 1/2"
 - ⑥ Connection for sensor tube / anodes 3/4"
 - ⑦ Drainage with plug R 3/4"
 - ⑧ DHW outlet / purge Rp 2"
- R: Conical threading
Rp: Tapped connection



PREP_00006

RSB...THS 400	Ø ③	H	H1	Ø L	Ø L1	A	B	C	D	E	F	G	I	J	K
1000	R 1" 1/2	2271	2171	990	790	1873	1593	1147	623	420	150	2115	1133	107	465
1500	R 1" 1/2	2011	1911	1300	1100	1502	1302	1002	655	452	150	1799	975	59	620
2000	R 1" 1/2	2252	2152	1300	1100	1740	1418	1096	655	452	150	2040	1095	59	620
2500	R 2"	2033	2026	1600	1400	1446	1230	963	683	480	185	1740	963	27	730
3000	R 2"	2195	2098	1600	1400	1610	1339	1045	683	480	185	1902	1044	27	730

TECHNICAL SPECIFICATIONS

Max. operating temperature: 95°C ; Max. operating pressure: 7 bar ;

MODEL

	RSB... THS DN 400	1000	1500	2000	2500	3000
Energy efficiency class		C	C	C	-	-
Storage volume	l	1000	1500	2000	2500	3000
Coefficient of heat losses (casing HR/HS)	W/K	2,9/3,2	3,4/3,8	3,8/4,4	4,1/4,6	4,6/4,8
Net weight	kg	260	340	375	450	540

MODEL

	RSB... THS DN 400	1000	1500	2000	2500	3000
Tank (Ø 406 mm inspection trap)	Package	AJ73	AJ74	AJ75	AJ76	AJ77
	Ref.	7650475	7650476	7650477	7650478	7650479
Flexible casing (RSB...THS DN400 HS) (M1 fire classification)	Package	AJ118	AJ120	AJ122	AJ124	AJ126
	Ref.	7650555	7650560	7650562	7650564	7650567
Rigide casing (RSB... THS DN400 M0 HR) (M0 fire classification)	Package	AJ148	AJ149	AJ150	AJ151	AJ152
	Ref.	7650592	7650593	7650594	7650596	7650597

OPTIONS

ACCESSORIES

	PACKAGE	REF.
Imposed current anode	AM7	89608920
Sensor tube 1/2" (lg 350 mm)	AJ162	7651078
Thermometer	AJ32	89757746

ACCESSORIES

	PACKAGE	REF.
• Shielded electrical resistance mounted on flange, Ø 400 mm:		
- 9 kW/400 V	AJ167	7651117
- 15 kW/400 V	AJ168	7651120
• Steatite electrical resistance mounted on flange, Ø 400 mm:		
- 9 kW/400 V	AJ170	7651123
- 15 kW/400 V	AJ171	7651124
- 30 kW/400 V	AJ172	7651127



SOLAR

10 SOLAR SYSTEMS

RESIDENTIAL SELECTION GUIDE p207

Solar collectors Inisol DH200SL/CH250SL	p208
Solar collectors Inisol DH200/CH250	p210
Inisol Uno BSL and Uno BESL equipped solar calorifiers	p214
Inisol BSL...N and BESL...N solar calorifiers	p216
Thermosiphon solar system STMO	p220

Dietrisol Quadro Solar equipped solar calorifiers	p222
Solar collector Dietrisol PRO D230	p212

COMMERCIAL SELECTION GUIDE p227

Solar collectors PRO C250 V/H	p228
Solar collector PRO C250 TB	p231
Solar calorifier B 802/1002	p232
Buffer tanks PS/PSB	p236

















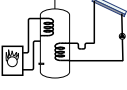

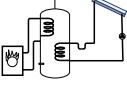

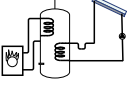










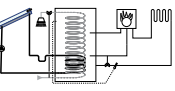

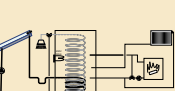

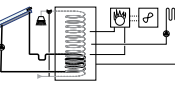

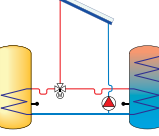


Panneaux Solaires



PRODUCT SELECTION GUIDE

HOW TO CHOOSE A SOLAR SYSTEM FOR THE PRODUCTION OF DOMESTIC HOT WATER AND/OR HEATING BACKUP

		North	Number of occupants						
		South	Number of occupants				< 130 M ²		
		Collector surface							
		SYSTEM TYPE		2 M ²	4 M ²	6 M ²	8 A 10 M ²		
DHW PRODUCTION	Integrated heating back-up		"Twineo" (p107) 	—	Twineo 200-2	Twineo 200-4	—	—	
	Integrated heating back-up		"Twineo" (p107) 	"Modulens" (p113) 	Twineo MI 200-2 and Modulens 220-2	Twineo MI 200-4 and Modulens 220-4	—	—	
	Integrated heating back-up		"Uno..." with BSL... (equipped) (p214) 	—	Uno 200-2	Uno 200-4	—	—	
	Integrated heating back-up		"Uno..." with BSL... (equipped) (p214) 	—	—	Uno 300-4	—	—	
	Integrated heating back-up		"Uno..." with BSL... (equipped) (p214) 	—	—	—	Uno 400-6	—	
	Integrated electric back-up		"Uno... E" with BESL... (equipped) (p215) 	—	Uno E 200-2	Uno E 200-4	—	—	
Integrated electric back-up		"Uno... E" with BESL... (equipped) (p215) 	—	—	Uno E 300-4	—	—		
Integrated electric back-up		"Uno... E" with BESL... (equipped) (p215) 	—	—	—	Uno E 400-6	—		
Thermosiphon solar system		STMO with tank and collector(s) 	—	 (p220)	STMO-LP 150-2 SE STMO ST2 150 E	STMO-LP 200-2 SE STMO-LP 200-3 SE STMO ST2 200 E STMO ST3 200 E	STMO-LP 300-4 SE STMO-LP 300-4 SEH STMO ST4 300 E STMO ST4 300 EH	STMO-LP 300-5 SE STMO-LP 300-5 SEH STMO ST5 300 E STMO ST5 300 EH	
DHW PRODUCTION AND/OR HEATING BACK-UP	Multizone buffer tank with: • External hydraulic back-up with boiler or HP • Electrical back-up for QUADRO combined with solid fuel boiler		"Quadro SolarEasy" (p223) 	—	—	—	Quadro 400-7 or Quadro 700-7	Quadro 700-9	
	For other systems combined with configurations specifications		"Quadro SolarEasybois" (p224) 	—	—	—	Quadro 700-7	Quadro 700-9	
	For other systems combined with configurations specifications		—	"Quadro SolarSystem" (p222) 	—	—	—	Quadro 400-7 or Quadro 700-7	Quadro 700-9
	Others configurations with combined Systems		—	Tanks (DHW or Buffer tank) and accessories	—	—	—	Swimming pool heating	Backup of heating and DHW production

SOLAR SYSTEMS

FOR DHW PRODUCTION AND/OR HEATING BACK-UP

EASYLIFE



Inisol DH 200 SL and CH 250 SL

Flat solar collectors



DH 200 SL: n. 078/000264
CH 250 SL: n. 078/000259



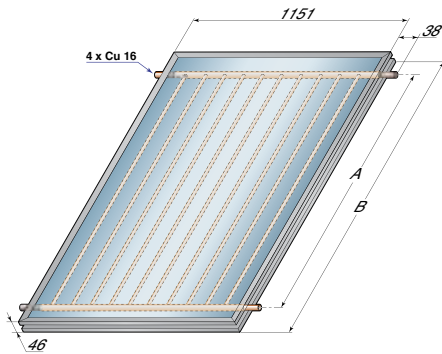
DH 200 SL: n° 14/16-2181
CH 250 SL: n° 14/16-2181

- High performance flat collectors for vertical on-roof or on-terrace mounting
- Flat aluminium absorber with selective coating and copper «harp» exchanger
- Connection in series up to 10 collectors mounted vertically side by side
- Hydraulics adapted to pressurised running, in drain Back or in thermosiphon
- Rear and lateral insulation from 20 mm rockwool
- Casing in aluminium profiling with fastening groove on the surround and aluminium rear cover

- Translucent safety glass window, thickness 3.2 mm, translucency >91%
- Systems for terrace and on-roof mounting, hydraulic connection kits and connection kit between collectors or field of collectors
- Packaging:** 1 package/collector

NOTA: the solar collectors must be stored protected from the weather

DIMENSIONS PRINCIPALES (mm et pouces)



(mm)	A	B
DH 200SL	1 610	1 757
CH 250SL	2 044	2 191

TECHNICAL SPECIFICATIONS

Operating pressure: 2.5 bar : Max. operating temperature: 120°C
Operating pressure maxi.: 6 bar : Stagnation temperature: 212°C

MODEL

	INISOL	DH 200 SL	CH 250 SL
Total gross area Ag	m ²	2.02	2.52
Aperture area Aa	m ²	1.92	2.40
Absorber area Aa	m ²	1.88	2.35
Water capacity	l	1.1	1.2
Absorption factor (a)	%	95+/-1	95+/-1
Emissivity (ε)	%	5+/-1	5+/-1
Optical yield (η0)		0.732	0.740
Loss coefficient trough transmission (a1)	W/m ² .K	3.860	3.915
Loss coefficient trough transmission (a2)	W/m ² .K ²	0.017	0.013
Angle of incidence factor Kθ for 50 °C	%	0.95	0.95
Net weight	kg	27	31

MODEL

	INISOL	DH 200 SL	CH 250 SL
Package		ER719	ES214
Ref.		7219377	7677366

LIST OF AVAILABLE "ROOF PACKS"

DESCRIPTION

DESCRIPTION	PACKAGE	REF.	NUMBER OF INISOL DH 200SL COLLECTORS MONTÉS SUR 1 LIGNE		
			1	2	3
<p>"ROOF" Pack ST: Complete solar collector field delivered vertically on 1 pallet</p> <p>These packs include Inisol DH 200SL collectors, hydraulic connection accessories roof installation grooves and the collector sensor:</p> <p>► Built into the roof (vertical installation): ST</p> <p>Roof pack with 2 m² of collectors, i.e. 1 x Inisol DH 200SL</p> <ul style="list-style-type: none"> with universal bracket for mechanical tiles (independent mounting of the rafters) for slate roofs 			1		
	ER771	7652623	}	1	
	ER774	7652652			
Roof pack with 4 m ² of collectors, i.e. 2 x Inisol DH 200SL				1	
	ER772	7652638	}	1	
	ER775	7652653			
Roof pack with 6 m ² of collectors, i.e. 3 x Inisol DH 200SL					1
	ER773	7652640	}		1
	ER776	7652654			
► Terrace mounting:					
Roof pack with 2 m ² of collectors, i.e. 1 x Inisol DH 200SL (vertical installation)			1		
	ER777	7652656	}	1	1
Roof pack with 4 m ² of collectors, i.e. 2 x Inisol DH 200SL (vertical installation)					
	ER778	7652657			
Roof pack with 6 m ² of collectors, i.e. 3 x Inisol DH 200SL (vertical installation)					1
	ER779	7652658	}		1

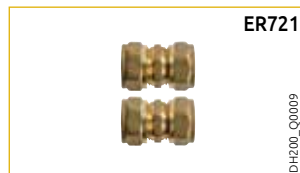
(1) with flat/slates tiles: order a flashing kit package ER558, Ref. 7503269

SOLAR SYSTEMS

REFERENCE LIST OF THE PACKAGES REQUIRED FOR SOLAR SYSTEMS UP TO 10 COLLECTORS INISOL DH 200 SL AND CH 250 SL

DESCRIPTION

DESCRIPTION	PACK. N.	REF.	NUMBER OF COLLECTORS MOUNTED VERTICALLY SIDE BY SIDE														
			1	2	3	4	5	6	7	8	9	10					
SOLAR COLLECTORS PACKED FLAT																	
• Solar collector INISOL DH 200 SL	ER719	7219377	1	2	3	4	5	6	7	8	9	10					
• Solar collector INISOL CH 250 SL	ES214	7677366	1	2	3	4	5	6	7	8	9	10					
ACCESSORIES FOR THE HYDRAULIC CONNECTION																	
▶ For self-draining systems (screw fittings)																	
• Hydraulic connection kit for 2 collectors (bicone connectors)	ER720	7222026	1	1	1	1	1	1	1	1	1	1					
• Hydraulic connection kit between 2 collectors (bicone connectors)	ER721	7222029	-	-	1	2	3	4	5	6	7	8					
• Kit with flexible pipes (Flat fittings)	ER247	100016508	1	1	1	1	1	1	1	1	1	1					
or																	
• Kit with 10 inlet elbows DN16	ER722	7222030	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1					
• Kit with 10 outlet T DN16 (with solar sensor tube and manual air vent)	ER723	7222031	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1					
• Kit with 20 bicone plugs DN16	ER724	7222032	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1					
• Kit with 20 bicone connectors between 2 collectors DN16	ER725	7222033	-	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9					
TERRACE (OR GROUND) MOUNTING SYSTEMS																	
• Profile kit for 1 collector	ER732	7217045	1	2	3	4	5	6	7	8	9	10					
• 2 basic terrace supports for 1 collector	ER658	7217038	1	1	1	1	1	1	1	1	1	1					
• 1 extension terrace support for 1 collector	ER659	7217039	-	1	2	3	4	5	6	7	8	9					
ON-ROOF MOUNTING SYSTEMS (Screw-in profile and anchorage fitting)																	
• Profile kit for 1 collector	ER732	7217045	1	2	3	4	5	6	7	8	9	10					
ANCHORAGE FITTING FOR TILES																	
Tiles	Mechanical (stainless steel)	Mechanical (to clip, aluminum)	Flat (stainless steel)	Canal (stainless steel)	Sheeting (stainless steel)	Slates (stainless steel)	To be chosen according to the type of roofing										
Pack.	EG313	ES24	EG315	ER136	EG317	EG319		1	-	2	1	-	2	1	-	2	1
Ref.	89807313	7654649	89807315	100015314	89807317	89807319		-	1	-	1	2	-1	2	3	2	3
Pack.	EG314	-	EG316	ER137	EG318	EG320		-	1	-	1	2	-1	2	3	2	3
Ref.	89807314	-	89807316	100015315	89807318	89807320											
• or																	
• Coach bolt kit for mounting on canal tile	6 pces	EG94	89807782	1	-	2	-	1	4	2	-	6	5				
	8 pces	EG95	89807783	-	1	-	2	2	-	2	4	-	-				



SOLAR SYSTEMS

FOR DHW PRODUCTION AND/OR HEATING BACK-UP

EASYLIFE



Inisol DH 200 and CH 250

Flat solar collectors



DH 200: n. 078/000215
CH 250: n. 078/000216

High performance flat collectors for vertical on-roof or on-terrace mounting for domestic (INISOL DH 200 collector) or collective (INISOL CH 250 collector) solar systems

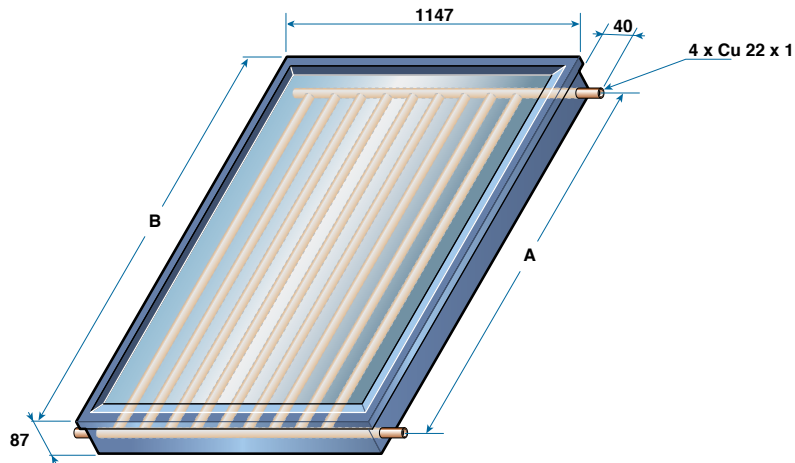
- Flat aluminium absorber with selective coating and copper «harp» exchanger
- Connection in series up to 10 collectors mounted vertically side by side
- Hydraulics adapted to pressurised running, in drain Back or in thermosiphon
- Rear and lateral insulation from 40 mm rockwool
- Casing in aluminium profiling with fastening groove on the surround and aluminium rear cover

- Translucent safety glass window, thickness 3.2 mm, translucency >91%
- Systems for terrace and on-roof mounting, hydraulic connection kits and connection kit between collectors or field of collectors
- **Packaging:** 1 package/collector

NOTA: the solar collectors must be stored protected from the weather

MAIN DIMENSIONS (mm and inches)

	A (mm)	B (mm)
DH 200	1 610	1 753
CH 250	2 044	2 187



TECHNICAL SPECIFICATIONS

Operating pressure: 2.5 bar : Operating pressure maxi.: 10 bar : Max. operating temperature: 180°C : Stagnation temperature: 198°C

MODEL

	INISOL	DH 200	CH 250
Total gross area A_g	m ²	2.01	2.51
Aperture area A_a	m ²	1.920	2.404
Absorber area A_{ab}	m ²	1.88	2.35
Water capacity	l	1.5	1.7
Absorption factor (α)	%	95+/-1	95+/-1
Emissivity (ϵ)	%	5+/-1	5+/-1
Optical yield (η_0)		0.770	0.765
Loss coefficient trough transmission (a_1)	W/m ² .K	3.924	3.653
Loss coefficient trough transmission (a_2)	W/m ² .K ²	0.011	0.012
Angle of incidence factor η_{30}	%	0.91	0.91
Net weight	kg	37	44

MODEL

	INISOL	DH 200	CH 250
Package		ER646	ER647
Ref.		7203638	7203637

SOLAR SYSTEMS

REFERENCE LIST OF THE PACKAGES REQUIRED FOR SOLAR SYSTEMS UP TO 10 COLLECTORS INISOL DH 200 AND CH 250

DESCRIPTION

DESCRIPTION	PACK. N.	REF.	NUMBER OF COLLECTORS MOUNTED VERTICALLY SIDE BY SIDE									
			1	2	3	4	5	6	7	8	9	10
SOLAR COLLECTORS PACKED FLAT												
• Solar collector INISOL DH 200	ER646	7203638	1	2	3	4	5	6	7	8	9	10
• Solar collector INISOL CH 250	ER647	7203637	1	2	3	4	5	6	7	8	9	10

ACCESSORIES FOR THE HYDRAULIC CONNECTION

• Hydraulic connection kit for 2 collectors (bicone connectors)	ER648	7213624	1	1	1	1	1	1	1	1	1	1
• Set of 20 bicone connectors between 2 collectors	ER652	7213628	-	-	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
or												
• Set with 10 inlet elbows 3/4"	ER649	7213625	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
• Set with 10 outlet T 3/4" (with solar sensor tube and manual air vent)	ER650	7213626	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
• Set with 20 bicone plugs	ER651	7213627	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
• Set with 20 bicone connectors between 2 collectors	ER652	7213628	-	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9

TERRACE (OR GROUND) MOUNTING SYSTEMS

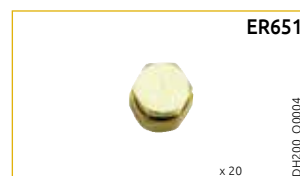
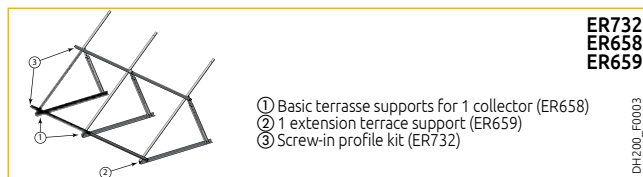
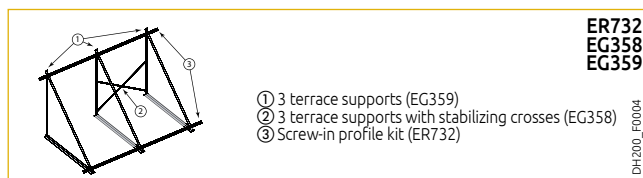
• Profile kit for 1 collector	ER732	7217045	1	2	3	4	5	6	7	8	9	10
• 2 basic terrace supports for 1 collector	ER658	7217038	1	1	1	1	1	1	1	1	1	1
• 1 extension terrace support for 1 collector	ER659	7217039	-	1	2	3	4	5	6	7	8	9
or												
• Profile kit for 1 collector	ER732	7217045	1	2	3	4	5	6	7	8	9	10
• 3 terrace supports with stabilizing crosses	EG358	89807358	1	1	1	1	1	1	1	1	1	1
• 3 terrace supports without stabilizing crosses	EG359	89807359	-	-	1	1	1	2	2	2	3	3

ON-ROOF MOUNTING SYSTEMS (Screw-in profile and anchorage fitting)

• Profile kit for 1 collector	ER732	7217045	1	2	3	4	5	6	7	8	9	10
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ANCHORAGE FITTING FOR TILES

Tiles	Mechanical (stainless steel)	Eternit (stainless steel)	Canal (stainless steel)													
Package	EG313	EG317	ER136	4 pcs	To be chosen according to the type of roofing	1	-	2	1	-	2	1	-	2	1	
Ref.	89807313	89807317	100015314			-	1	-	1	2	-1	2	3	2	3	
Package	EG314	EG318	ER137	6 pcs												
Ref.	89807314	89807318	100015315													
or																
• Coach bolt kit for mounting on canal tile				6 pcs	EG94	89807782	1	-	2	-	1	4	2	-	6	5
				8 pcs	EG95	89807783	-	1	-	2	2	-	2	4	-	-



SOLAR SYSTEMS

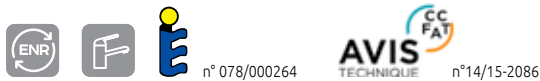
FOR DHW PRODUCTION AND/OR HEATING BACK-UP

ADVANCE



Dietrisol PRO D230

Flat solar collectors



+ point

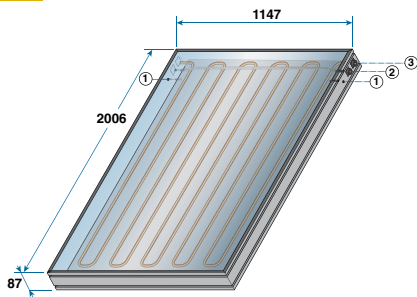
Integrated return tube: passage under the roof on one side only

High-performance flat collectors for horizontal and vertical, on-roof or on-terrace mounting, or for integration into the roof

- Flat aluminium absorber with selective coating and single-pipe exchanger, sinusoidal in shape
- **Return pipes included** in the collector allowing it to be connected to the collector field from a single side
- Connection in series (up to 5 collectors)
- Rear and lateral insulation from 40mm rockwool
- Casing in anthracite-grey painted aluminium profiling with fastening groove on the surround and aluminium rear cover

- Translucent safety glass window, thickness 3.2mm, translucency > 91%
- Systems for terrace and roof-mounting and for integration into the roof, hydraulic connection kits and connection kits between collectors and fields of collectors
- **Packaging:** 1 package

MAIN DIMENSIONS (mm and inches)



PROD230_F0001A

- ① Location for solar sensor
- ② Collector output Ø 12mm for quick connection
- ③ Collector input Ø 12mm for quick connection

TECHNICAL SPECIFICATIONS

Operating pressure: 2,5 bar ; Max. operating temperature: 120°C
 Max. operating pressure: 10 bar ; Stagnation temperature: 190°C

MODEL

	DIETRISOL	PRO D230
Total gross area (Ag)	m ²	2.3
Input area (Aa)	m ²	2.17
Absorber area (Aa)	m ²	2.15
Fluid capacity	l	2.1
Recommended flow	l/h.m ²	30
Fluid resistance (30 l/h.m ²)	mbar	7
Test pressure	bar	10
Absorption factor (a)	%	95+/-1
Emissivity (ε)	%	5+/-1
Optical yield (h0)	%	82
Loss coefficient trough transmission (a1)	W/m ² .K	3.941
Loss coefficient trough transmission (a2)	W/m ² .K ²	0.015
Net weight	kg	37

MODEL

	DIETRISOL	PRO D230
Package		ER405
Ref.		100019332

LIST OF AVAILABLE "ROOF PACKS"

DESCRIPTION

PACKAGE REF. NUMBER OF PRO D230 COLLECTORS VERTICAL JUXTAPOSED

"ROOF" Pack IT: Complete solar collector field delivered vertically on 1 pallet

These packs include PRO D230 collectors, hydraulic connection accessories, the roof integration system and the collector sensor:

► **Built into the roof (vertical installation): IT**

Roof pack with 2 m² of collectors, i.e. 1 x PRO D230

• for mechanical tiles with roof slope ≥ 22° (1)

• for canal tiles with roof slope ≥ 17°

ER620	7615855	} 1			
ER624	7615864				

Roof pack with 5 m² of collectors, i.e. 2 x PRO D230:

• for mechanical tiles with roof slope ≥ 22° (1)

• for canal tiles with roof slope ≥ 17°

ER621	7615859	} 1			
ER625	7615866				

Roof pack with 7 m² of collectors, i.e. 3 x PRO D230:

• for mechanical tiles with roof slope ≥ 22° (1)

• for canal tiles with roof slope ≥ 17°

ER622	7615861	} 1			
ER626	7615868				

Roof pack with 9 m² of collectors, i.e. 4 x PRO D230:

• for mechanical tiles with roof slope ≥ 22° (1)

• for canal tiles with roof slope ≥ 17°

ER623	7615863	} 1			
ER627	7615869				

"ROOF" Pack ST: Complete solar collector field delivered vertically on 1 pallet

These packs include PRO D230 collectors, hydraulic connection accessories, roof installation grooves and the collector sensor:

► **Installation on roof: ST**

Roof pack with 2 m² of collectors, i.e. 1 x PRO D230

• for slate roofs

• with universal bracket for mechanical tiles

ER430	100019693	} 1			
ER431	100019694				

Roof pack with 5 m² of collectors, i.e. 2 x PRO D230

• with aluminium universal bracket for mechanical tiles

• for slate roofs

• with stainless steel brackets on rafters for mechanical tiles

ER432	100019695	} 1			
ER433	100019696				
ER434	100019697				

Roof pack with 7 m² of collectors, i.e. 3 x PRO D230:

• with aluminium universal bracket for mechanical tiles

• for slate roofs

• with stainless steel brackets on rafters for mechanical tiles

ER435	100019698	} 1			
ER436	100019699				
ER437	100019700				

Roof pack with 9 m² of collectors, i.e. 4 x PRO D230:

• with aluminium universal bracket for mechanical tiles

• for slate roofs

• with stainless steel brackets on rafters for mechanical tiles

ER438	100019701	} 1			
ER439	100019702				
ER440	100019703				

(1) with flat/slates tiles: order a flashing kit package ER558, Ref. 7503269

SOLAR SYSTEMS

REFERENCE LIST OF THE PACKAGES REQUIRED INSTALLATIONS IN BLOCK OF FLATS TO 5 COLLECTORS PRO D230

DESCRIPTION

DESCRIPTION	PACK. N°	REF.	NUMBER OF PRO D230 COLLECTORS ON 1 LINE												
			VERTICAL JUXTAPOSED					HORIZONTAL JUXTAPOSED							
			1	2	3	4	5								
PACKAGED FLAT COLLECTOR															
• 1 flat collector PRO D230	ER405	100019332	1	2	3	4	5	1							
ACCESSORIES FOR THE HYDRAULIC CONNECTION OF THE PRO D230															
• Hydraulic connection kit for a collector field	ER406	100019333	1	1	1	1	1	1							
• Hydraulic connection kit between 2 collectors	ER407	100019334	-	1	2	3	4	-							
ROOF INTEGRATION MOUNTING SYSTEMS															
• Basic kit for integration in mechanical tile > 22° for 1 x PRO D230	ER628	7503818	1	-	-	-	-	-							
• Basic kit for integration in mechanical tile > 22° for 2 x PRO D230	ER629	7503820	-	1	1	1	1	-							
• Extension kit for integration in mechanical tile > 22° for 1 x additional PRO D230	ER630	7503819	-	-	1	2	3	-							
• With flat/slates tiles, order a flashing kit	ER558	7503269	1	1	1	1	1	-							
or			or	or	or	or									
• Basic kit for integration in canal tile > 17° for 1 x PRO D230	ER631	7212871	1	-	-	-	-	-							
• Basic kit for integration in canal tile > 17° for 2 x PRO D230	ER632	7212872	-	1	1	1	1	-							
• Extension kit for integration in canal tile > 17° for 1 x additional PRO D230	ER633	7212874	-	-	1	2	3	-							
TERRACE (OR GROUND MOUNTING SYSTEMS)															
Systems for high loads of wind and snow (High Load)															
• Basic HL terrace support for mounting 1 x PRO D230 (vertical mounting)	ER250	100016509	1	1	1	1	1	-							
• Extension HL terrace support for mounting 1 x additional PRO D230 (vertical mounting)	ER251	100016510	-	1	2	3	4	-							
• Basic HL terrace support for mounting 1 x PRO D230 (horizontal mounting)	ER252	100016511	-	-	-	-	-	1							
• Extension HL terrace support for mounting 1 x additional PRO D230 (horizontal mounting)	ER253	100016512	-	-	-	-	-	-							
or			or	or	or	or	or	or							
Systems for standard loads of wind and snow (Standard Load)															
• Basic SL terrace support for mounting 1 x PRO D230 (vertical mounting)	ER658	7217038	1	1	1	1	1	-							
• Extension SL terrace support for mounting 1 x additional PRO D230 (vertical mounting)	ER659	7217039	-	1	2	3	4	-							
• Clip-on profile kit for 1 x PRO D230 (vertical mounting)	ER664	7217044	1	2	3	4	5	-							
• Basic SL terrace support for mounting 1 x PRO D230 (horizontal mounting)	ER656	7217041	-	-	-	-	-	1							
• Extension SL terrace support for mounting 1 x additional PRO D230 (horizontal mounting)	ER657	7217042	-	-	-	-	-	1							
• Clip-on profile kit for 1 x PRO D230 (horizontal mounting)	ER662	7217048	-	-	-	-	-	1							
ROOF MOUNTING SYSTEMS (profile kit and anchorage fittings)															
• Clip-on profile kit for 1 x PRO D230 (vertical mounting) (for use in combination with the anchorage fittings below)	ER664	7217044	1	2	3	4	5	-							
• Clip-on profile kit for 1 x PRO D230 (horizontal mounting) (for use in combination with the anchorage fittings below)	ER662	7217048	-	-	-	-	-	1							
ANCHORAGE FITTING FOR TILED ROOF INSTALLATION (3)															
For roofs without rafters															
Universal aluminium hook for mechanical tile (Mounting on 2 battens, min. cross section 30 x 90mm, provided): (cm)	4 pcs	EG311	89807311	1	-	2	1	-	1						
	6 pcs	EG312	89807312	-	1	-	1	2	-						
			not delivered	200	300	400	600	700	300						
Fitting on hooks															
Tiles	Mechanical (stainless steel)	Mechanical (to clip, aluminum)	Flat (stainless steel)	Canal (stainless steel)	Sheeting (stainless steel)	Slates (stainless steel)									
Pack.	EG313	ES24	EG315	ER136	EG317	EG319									
Ref.	89807313	7654649	89807315	100015314	89807317	89807319	4 pcs	(1)	89807313	1	-	2	1	-	1
Pack.	EG314	-	EG316	ER137	EG318	EG320									
Ref.	89807314	-	89807316	100015315	89807318	89807320	6 pcs	(1)	89807314	-	1	-	1	2	-
or							or	or	or	or	or	or	or	or	or
Coach bolt kit for mounting on canal tile	6 pcs	EG94	89807782	1	-	2	-	1	1						
	8 pcs	EG95	89807783	-	1	-	2	2	-						

(1) To be chosen according to the type of roofing as well as the profiles

(3) In areas with heavy snow and roof slopes $\leq 35^\circ$, the number of hooks should be doubled.

SOLAR SYSTEMS

FOR DOMESTIC HOT WATER PRODUCTION

EASYLIFE



Insol Uno BSL... (double coil)

Equipped solar calorifiers from 200 to 400 l with heating back-up

+ point

Solar tank completely equipped



Solar domestic hot water calorifier

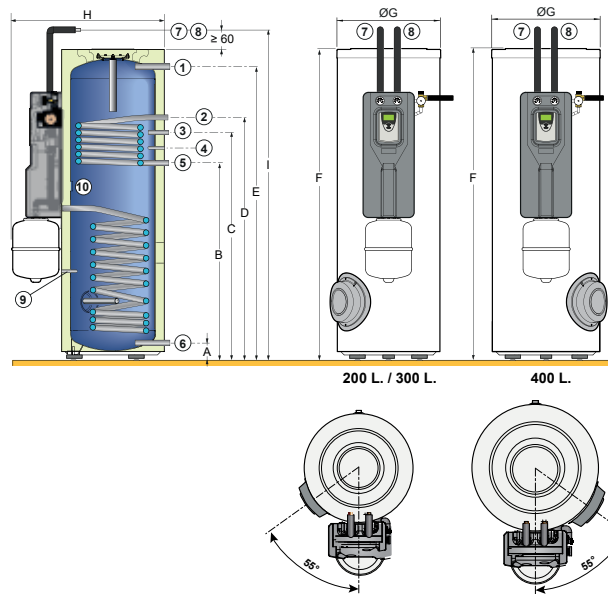
- Enamelled steel tank, CFC-free injected polyurethane foam insulation, thickness 50mm, protection by magnesium anode
- Fitted with lower exchanger and an upper exchanger dedicated to the boiler in smooth tube enamelled on the outside
- Electrical resistance available as option
- Pre-fitted as standard with all components required to connect and control a solar installation: solar station with pump with energy efficiency index EEI < 0.23, stop-valves with non return valve, thermometer, degasser with manual air vent, expansion

vessel, safety unit, manometer, filling and draining system, thermostatic mixing valve, fluid recovery tank

- SOL AEL control unit with "matched flow" integrated on facade
- Connection at the back by "Plug and Heat System"
- ABS covers
- Packaging: 1 package

MAIN DIMENSIONS (mm and inches)

- ① DHW outlet with thermostatic mixing valve G 1"
- ② Boiler exchanger inlet (boiler) G 1"
- ③ Circulation pipe G 3/4"
- ④ Position boiler sensor
- ⑤ Boiler exchanger outlet (boiler) G 1"
- ⑥ Domestic cold water inlet + drainage G 1"
- ⑦ Exchanger inlet solar circuit Cu 18mm
- ⑧ Exchanger outlet solar circuit Cu 18mm
- ⑨ Position solar sensor
- ⑩ Electrical back-up (option)



Dimensions (mm)	A	B	C	D	E	F	ØG	H	J
BSL 200	70.5	912	1092	1182	1323.5	1422.5	604	900	1513
BSL 300	71	1127	1307	1397	1694	1796	604	900	1911
BSL 400	66	992	1172	1262	1558	1672	704	1000	1861

TECHNICAL SPECIFICATIONS

Max. operating temperature: - primary (exchangers): 110°C
- secondary (tank): 95°C

Max. operating pressure: - primary (exchangers): 10 bar
- secondary (tank): 10 bar

MODEL

	INSOL UNO		BSL 200		BSL 300		BSL 400	
			lower (sol.)	upper (boiler)	lower (sol.)	upper (boiler)	lower (sol.)	upper (boiler)
Calorifier capacity	l			225		300		400
Back-up volume	l			75		105		150
Solar volume	l			150		195		250
Exchanger capacity	l		5.6	5.1	8.1	5.1	10.1	5.1
Exchanger surface	m ²		0.84	0.76	1.2	0.76	1.50	0.76
Primary flow	m ³ /h			2		2		2
Primary temperature	°C			80		80		80
Exchanger power (1)(2)	kW			24		24		24
Flow per hour at ΔT = 35 K (1)(2)	l/h			590		590		590
Flow over 10 min. at ΔT = 30 K (1)(3)	l/10 Min.			150		200		270
Coefficient of heat losses	W/K		1.67		2.04		2.41	
Net weight	kg			106		129		156

(1) Cold water temp.: 10°C (2). DHW temp.: 45°C. primary temp.:80°C. primary flow: 2 m³/h. (3) DHW temp.: 40°C. DHW storage temp.: 65°C.values measured only on the back-up volume

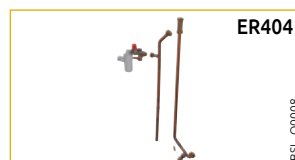
MODEL

	INSOL UNO	BSL 200	BSL 300	BSL 400
Package		ES146	ES147	ES148
Ref.		7786639	7786640	7786641

OPTIONS

ACCESSORIES

	PACKAGE	REF
Cold water connection kit	ER404	100019322
Shielded electrical resistance:		
• 1.5 kW with sensor (for AEL control unit only)	ER392	100019163
• 3 kW with sensor (for AEL control unit only)	ER394	100019165



SOLAR SYSTEMS

FOR DOMESTIC HOT WATER PRODUCTION

EASYLIFE



Inisol Uno...E BESL (single coil)

Equipped solar calorifiers from 200 to 400 l electrical back-up

+ point

Including back-up controlling Solar tank completely equipped



Solar domestic hot water calorifier

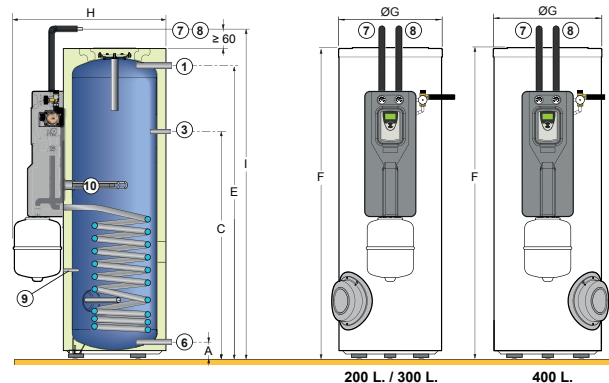
- Enamelled steel tank, CFC-free injected polyurethane foam insulation, thickness 50mm, protection by magnesium anode
- Fitted with lower exchanger in smooth tube enamelled on the outside
- Fitted as standard with an electrical resistance back-up with safety thermostat and sensor and controlled by the solar control unit
- Pre-fitted as standard with all components required to connect and control a solar installation: solar station with pump with energy efficiency index EEI < 0.23, stop-valves with non return valve,

thermometer, degasser with manual air vent, expansion vessel, safety unit, manometer, filling and draining system, thermostatic mixing valve, fluid recovery tank

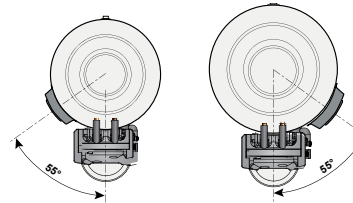
- SOL AEL control unit with "matched flow" integrated on facade
- Connection at the back by "Plug and Heat System"
- ABS covers
- Packaging: 1 package

MAIN DIMENSIONS (mm and inches)

- ① DHW outlet with thermostatic mixing valve G 1"
- ③ Circulation pipe G 3/4"
- ④ Domestic cold water inlet + drainage G 1"
- ⑦ Exchanger inlet solar circuit Cu 18mm
- ⑧ Exchanger outlet solar circuit Cu 18mm
- ⑨ Position solar sensor
- ⑩ Electrical resistance



Dimensions (mm)	A	B	C	D	E	F	ØG	H	J
BESL 200	70,5	912	1092	1182	1323,5	1422,5	604	900	1513
BESL 300	71	1127	1307	1397	1694	1796	604	900	1911
BESL 400	66	992	1172	1262	1558	1672	704	1000	1861



TECHNICAL SPECIFICATIONS

Max. operating temperature: - primary (exchangers): 110°C
 - secondary (tank): 95°C

Max. operating pressure: - primary (exchangers): 10 bar
 - secondary (tank): 10 bar

MODEL

	INISOL UNO... E	BESL 200	BESL 300	BESL 400
Calorifier capacity	l	225	300	400
Back-up volume	l	95	135	170
Solare volume	l	130	165	230
Exchanger capacity	l	5.6	8.1	10.1
Exchanger surface	m ²	0.84	1.2	1.5
Electrical back-up power	kW	1.5	2.3	3.0
Water vol. available at 40°C on nighttime heating (1)	l	155	210	260
Water vol. available at 40°C on nighttime heating + 2h daytime (1)	l	250	360	465
Electrical heating time 15 to 60°C	h	3h20	3h10	3h00
Coefficient of heat losses	W/K	1.67	2.04	2.41
Poids net	kg	106	129	156

(1) Cold water temp. 15°C. DHW storage temp. 55°C. values measured only on back-up volume

MODEL

	INISOL UNO... E	BESL 200	BESL 300	BESL 400
Package		ES143	ES144	ES145
Ref.		7786636	7786637	7786638

OPTIONS

ACCESSORIES

	PACKAGE	REF
Cold water connection kit	ER404	100019322



SOLAR SYSTEMS

FOR DOMESTIC HOT WATER PRODUCTION

EASYLIFE



Inisol BSL... N (double coil)

Solar calorifiers from 200 to 500 l with heating and/or electrical back-up



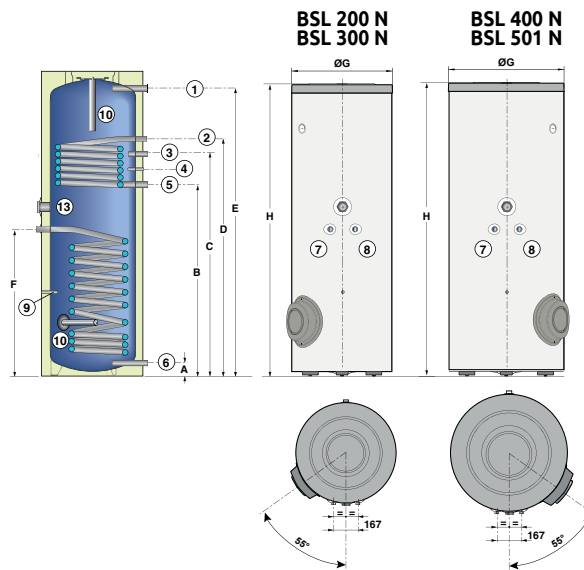
Solar domestic hot water calorifier

- Enamelled steel tank, CFC-free injected polyurethane foam insulation, thickness 50mm, protection by magnesium anode
- Fitted with lower exchanger and an upper exchanger dedicated to the boiler in smooth tube enamelled on the outside
- All connections at the back except connection to the solar exchanger at the front
- ABS covers

- Equipment available as options allows to connect and control a solar installation
- All components required to connect and control a solar installation are available in option (see below).
- Additional options can be found in the product catalogue.
- Packaging: 1 package

MAIN DIMENSIONS (mm and inches)

- DHW outlet G 1"
- Boiler exchanger inlet G 1"
- Circulation pipe G 3/4"
- Position boiler sensor
- Boiler exchanger outlet G 1"
- Domestic cold water inlet + drainage G 1"
- Exchanger inlet solar circuit G 3/4"
- Exchanger outlet solar circuit G 3/4"
- Position solar sensor
- Anode
- Position electrical resistance (option)



Type	A	B	C	D	E	F	ØG	H
BSL 200 N	71	912	1092	1182	1324	682	604	1423
BSL 300 N	71	1127	1397	1397	1694	862	604	1796
BSL 400 N	66	992	1217	1262	1558	812	704	1672
BSL 501 N	71	1133	1313	1403	1666	948	814	1812

TECHNICAL SPECIFICATIONS

Max. operating temperature: - primary (exchangers): 110°C
- secondary (tank): 95°C

Operating pressure maximale: - primary (exchangers): 10 bar
- secondary (tank): 10 bar

MODEL

	INISOL	BSL 200 N		BSL 300 N		BSL 400 N		BSL 501 N	
Energy efficiency class		C		C		C		C	
Calorifier capacity	l	225		300		400		500	
Back-up volume	l	75		105		150		160	
Solar volume	l	150		195		250		340	
Exchangers		lower (sol.)	up. (boiler)	lower (sol.)	up. (boiler)	lower (sol.)	up. (boiler)	lower (sol.)	up. (boiler)
Exchanger capacity	l	5.6	5.1	8.1	5.1	10.1	5.1	12.8	5.1
Exchanger surface	m ²	0.84	0.76	1.2	0.76	1.5	0.76	1.9	0.76
Primary flow	m ³ /h	2		2		2		2	
Primary temperature	°C	80		80		80		80	
Exchanger	kW	24		24		24		24	
Flow per hour at	l/h	590		590		590		590	
Flow over	l/10 Min.	150		200		270		305	
Coefficient of heat losses	W/K	1.67		2.04		2.41		2.56	
Net weight	kg	99		122		149		180	

(1) Cold water temp: 10°C (2). DHW storage temp: 45°C. Primary temp: 80°C. Primary flow: 2 m³/h. (3) DHW temp: 40°C. DHW storage temp: 65°C. values measured only on the back up volume

MODEL

	INISOL	BSL 200 N	BSL 300 N	BSL 400 N	BSL 501 N
Package		ER418	ER419	ER420	ER883
Ref.		100019528	100019521	100019525	7680594

OPTIONS

ACCESSORIES

	PACKAGE	REF
Thermostatic mixing-valve	EC60	100019425
«Titan Activ System» kit for solar-calorifier combined with a boiler fitted with a control panel able to control the TAS (up to 300 litres)	EC431	100010652
Cold water connection kit	ER404	100019322

ACCESSORIES

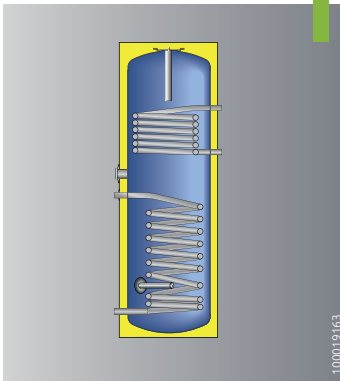
	PACKAGE	REF
Impressed current anode * (BSL 200/300 N)	AJ39	89757753
Impressed current anode * (BSL 400 N)	AM7	89608920

* When no electric resistance

SOLAR SYSTEMS

EQUIPMENTS FOR SOLAR CALORIFIERS

EASYLIFE



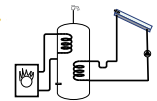
Inisol BSL... N (double coil) with heating and/or electrical back-up

Solar calorifiers BSL...N can optionally be fitted with (see below):





- solar equipment with or without control of the **integrated back-up boiler**
- solar equipment consisting of an electrical resistance in substitution of or addition to the back-up boiler if required (e.g. when the back-up is a wood-fired boiler).
- Similar equipment enabling DHW production and heating support and/or pool heating with two

storage tanks or, for multiple systems with common solar loop and individual back-up for each boiler.





SOLAR CALORIFIER BSL... N IN A SYSTEM FOR DHW PRODUCTION WITH HEATING BACK-UP.....



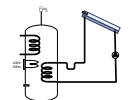
EQUIPMENT WITH BACK-UP CONTROLLING

	PACKAGE	REF
 8980Q305 Solarstation DKSL 7MSB	ES173	7785108
 8980Q303 Tube kit for DKSL 6-8 MSB station assembly on BSL...N	ES176	7792528
 CS2_Q0001 SOLAR Control C52+	ES141	7797547
 8980Q043 Expansion vessel 18 litres	EG117	100019427



EQUIPMENT WITHOUT BACK-UP CONTROLLING

	PACKAGE	REF
 8980Q310 Solarstation SKP 7-8	ER655	7624853
 SOL_Q0001 Control unit SOL PLUS	ER709	7630422
 8980Q042 Wall bracket for expansion vessel up to 25 litres	EC118	89807238
 8980Q043 Expansion vessel 18 litres	EG117	100019427




SOLAR CALORIFIER BSL... N IN A SYSTEM WITH ELECTRICAL BACK-UP



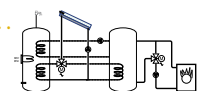
EQUIPMENT WITH ELECTRICAL BACK-UP CONTROLLED BY A CONTROL UNIT SOLAR CONTROL CS2 +

	PACKAGE	REF
Equipment with back-up controlling (see above)	-	-
+ + +		
 BSL_Q0010 Shielded electrical resistance 1.5 kW with sensor	ER392	100019163
or		
 BSL_Q0010 Shielded electrical resistance 3 kW with sensor	ER394	100019165




EQUIPMENT WITH ELECTRICAL BACK-UP CONTROLLED BY A THERMOSTAT



	PACKAGE	REF
Equipment with back-up controlling (see above)	-	-
+ + +		
 BSL_Q0009 Shielded electrical resistance 1.5 kW with thermostat	ER395	100019166
or		
 BSL_Q0009 Shielded electrical resistance 2.3 kW with thermostat	ER396	100019167
or		
 BSL_Q0009 Shielded electrical resistance 3 kW with thermostat	ER397	100019168

SOLAR CALORIFIER BSL... N IN A SYSTEM WITH 2 TANKS



WALL MOUNTED EQUIPMENT FOR SYSTEM WITH 2 TANKS

	PACKAGE	REF
 8980Q285 Solarstation SKS 13-45	ER665	7619964
 SOL_Q0001 Solar Control Unit SOL PLUS	ER709	7630422
 8980Q240 3-way 3/4" valve for 2 circuits with SOL PLUS control unit	EC164	89804803

	PACKAGE	REF
 8980Q042 Wall bracket for expansion vessel up to 25 litres	EC118	89807238
 8980Q043 Expansion vessel 25 litres	EG118	100019428

SOLAR SYSTEMS

FOR DOMESTIC HOT WATER PRODUCTION

EASYLIFE



Inisol BESL... N (single coil)

Solar calorifiers from 200 to 300 l with electrical back-up



Solar domestic hot water calorifier

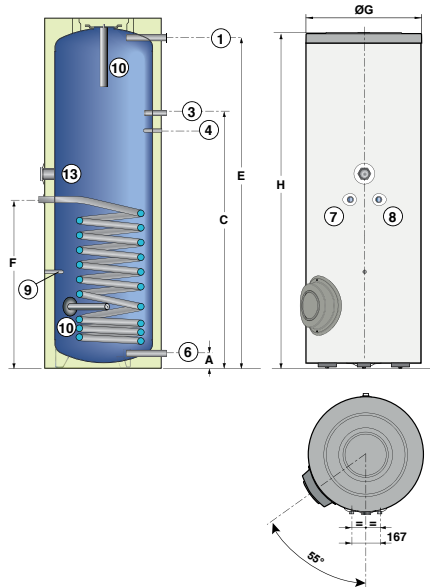
- Enamelled steel tank, CFC-free injected polyurethane foam insulation, thickness 50mm, protection by magnesium anode
- Fitted with lower exchanger in smooth tube enamelled on the outside
- Electrical resistance in option
- All connections at the back except connection to the solar exchanger at the front
- ABS covers

- Equipment available as options allows to connect and control a solar installation
- All components required to connect and control a solar installation are available in option (see next page).
- Additional options can be found in the product catalogue
- **Packaging:** 1 package

MAIN DIMENSIONS (mm and inches)

- ① DHW outlet G 1"
- ③ Circulation pipe G 3/4"
- ④ Position boiler sensor
- ⑥ Domestic cold water inlet + drainage G 1"
- ⑦ Exchanger inlet solar circuit G 3/4"
- ⑧ Exchanger outlet solar G 3/4"
- ⑨ Position solar sensor
- ⑩ Anode
- ⑬ Position electrical resistance (option)

Type	A	C	E	F	ØG	H
BESL 200 N	71	1092	1324	682	604	1423
BESL 300 N	71	1397	1694	862	604	1796



TECHNICAL SPECIFICATIONS

Max. operating temperature: - primary (exchangers): 110°C
- secondary (tank): 95°C

Operating pressure maximale: - primary (exchangers): 10 bar
- secondary (tank): 10 bar

MODEL

	INISOL	BESL 200 N	BESL 300 N
Calorifier capacity	l	225	300
Back-up volume with heating element	l	95	135
Solar volume	l	130	165
Exchanger capacity	l	5.6	8.1
Exchanger surface	m ²	0.84	1.20
Coefficient of heat losses	W/K	1.67	2.04
Net weight	kg	86	97

MODEL

	INISOL	BESL 200 N	BESL 300 N
Package		ER421	ER422
Ref.		100019530	100019527

OPTIONS

ACCESSORIES

	PACKAGE	REF
Thermostatic mixing-valve	EC60	100019425
«Titan Activ System» kit for solar-calorifier combined with a boiler fitted with a control panel able to control the TAS (up to 300 litres)	EC431	100010652
Cold water connection kit	ER404	100019322

ACCESSORIES

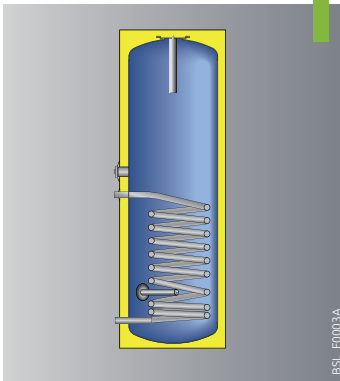
	PACKAGE	REF
Impressed current anode * (BESL 200/300 N)	AJ39	89757753

* When no electric resistance

SOLAR SYSTEMS

EQUIPMENTS FOR SOLAR CALORIFIERS

EASYLIFE



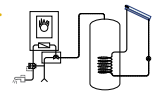
Inisol BESL... N (single coil) with electrical back-up

The solar calorifiers BESL... N can be used in systems with preheating, in combined systems or can be connected directly to a multiple solar circuit.





- Optionally, they can be fitted with (see below):
 - solar equipment with or without control of the integrated back-up for the calorifier.
 - solar equipment with autonomous electrical back-up, or back-up controlled by the solar control system

- solar equipment for DHW production with or without integrated back-up and swimming pool heating or support heating





SOLAR CALORIFIER BESL... N IN SYSTEM FOR DHW PREHEATING



EQUIPMENT WITH BACK-UP CONTROLLING

	PACKAGE	REF
 8980Q305 Solarstation DKSL 7 MSB	ES173	7785108
 8980Q303 Tube kit for DKSL 7 MSB station assembly on BESL...N	ES176	7792528
 CS2_Q0001 Control unit CS2+	ES 141	7797547
 8980Q043 Expansion vessel 18 litres	EG117	100019427



EQUIPMENT WITHOUT BACK-UP CONTROLLING

	PACKAGE	REF
 8980Q310 Solarstation SKP 7-8	ER655	7624853
 SOL_Q0001 Control unit SOL PLUS	ER709	7630422
 8980Q042 Wall bracket for expansion vessel up to 25 litres	EC118	89807238
 8980Q043 Expansion vessel 18 litres	EG117	100019427




SOLAR CALORIFIER BESL... N IN A SYSTEM WITH ELECTRICAL BACK-UP



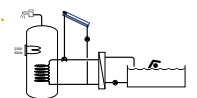
EQUIPMENT WITH ELECTRICAL BACK-UP CONTROLLED BY A CONTROL UNIT CS2+

	PACKAGE	REF
Equipment with back-up controlling (see above)	-	-
 BSL_Q0010 Shielded electrical resistance 1.5 kW with sensor	ER392	100019163
or  BSL_Q0010 Shielded electrical resistance 3 kW with sensor	ER394	100019165

EQUIPMENT WITH ELECTRICAL BACK-UP CONTROLLED BY A THERMOSTAT

	PACKAGE	REF
Equipment with back-up controlling (see above)	-	-
 BSL_Q0009 Shielded electrical resistance 1.5 kW with thermostat	ER395	100019166
or  BSL_Q0009 Shielded electrical resistance 2.3 kW with thermostat	ER396	100019167
 BSL_Q0009 Shielded electrical resistance 3 kW with thermostat	ER397	100019168

SOLAR CALORIFIER BESL... N IN A SYSTEM WITH THE CONTROL OF TWO SOLAR CIRCUITS



EQUIPMENT WITH ELECTRICAL BACK-UP WITH 2 CIRCUITS

	PACKAGE	REF
 8980Q285 Solarstation SKS 13-45	ER665	7619964
 SOL_Q0001 Control unit SOL PLUS	ER709	7630422
 8980Q240 3-way 3/4" valve for 2 circuits with SOL PLUS control unit	EC164	89804803
 8980Q042 Wall bracket for expansion vessel up to 25 litres	EC118	89807238
 8980Q043 Expansion vessel 25 litres	EG118	100019428
 BSL_Q0009 Shielded electrical resistance 3 kW with thermostat	ER397	100019168

SOLAR SYSTEMS

THERMOSIPHON SOLAR SYSTEMS FOR DOMESTIC HOT WATER PRODUCTION

EASYLIFE



STMO



STMO LP 150-2 SE
n° 078/000331

STMO LP 200-2 SE
n° 078/000332

STMO LP 300-2 SE
n° 078/000334

STMO LP 400-2 SE
n° 078/000330

STMO LP 500-2 SE
n° 078/000335

Complete solar systems for DHW production. Fully autonomous operation based on the principle of natural water circulation (thermosiphon), installed directly on a roof or terrace.

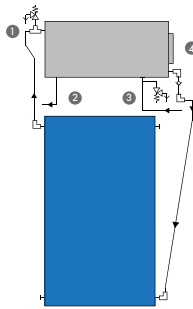
• They comprise:

- a glass-lined steel tank with integrated solar heat exchanger, magnesium anode protection, injected polyurethane foam insulation, thickness 25 to 40 mm according to execution and painted steel casing, **factory-equipped with a 2 kW electric resistance**,

- 3 size of tank 150, 200 and 300 litres with 2 kW electrical backup; 300 litres execution also available in 3 energy with additional hydraulic backup,
- 1 or 2 flat solar collectors, in "Slim Line" version
- Easy assembly through premounted terrace or on roof installation supports
- the hydraulic connection kit between collectors and tank, including the 8-bar DHW safety valve.
- 3 Energy flange available as accessory for 150 and 200 litres executions

STMO... MAIN DIMENSIONS

- ① 10-bar solar safety valve
- ② DHW outlet G 1/2"
- ③ Domestic cold water inlet with 7-bar DHW safety valve, G 1/2"
- ④ 2 kW/230V electric resistance and hydraulic back-up for the specific 300 litres execution

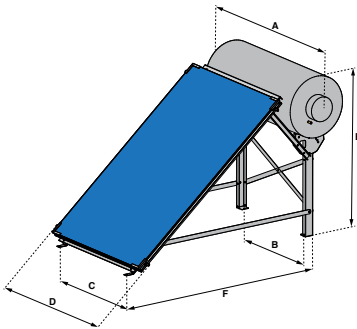


STMO_F0002



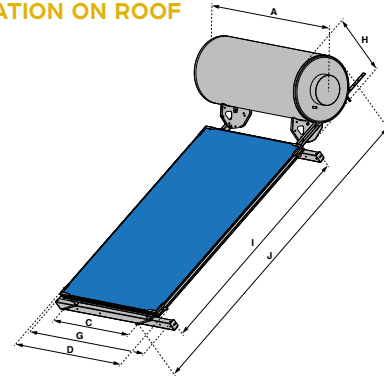
Thermosifon_Q1002

INSTALLATION ON FLAT ROOF OR TERRACE



SOL_F6000

INSTALLATION ON ROOF



SOL_F6001

STMO type	LP 150-2 SE	LP 200-2 SE	LP 200-3 SE	LP 300-4 SE/SEH	LP 300-5 SE/SEH
Number of collectors	1	1	1	2	2
A (mm)	1 200	1 250	1 250	1 950	1 950
B (mm)	811	811	811	1 356	1 356
C (mm)	895	895	895	1 440	1 440
D (mm)	1 227	1 227	1 227	2 460	2 460
E (mm)	1 330	1 360	1 360	1 360	1 360
F (mm)	1 786	1 786	2 248	1 786	2 248

STMO type	ST2 150 E	ST2 200 E	ST3 200 E	ST4 300 E/EH	ST5 300 E/EH
Number of collectors	1	1	1	2	2
A (mm)	1 200	1 250	1 250	1 950	1 950
C (mm)	957	957	957	1 501	1 501
D (mm)	1 227	1 227	1 227	2 460	2 460
G (mm)	1 526	1 526	1 526	1 526	1 526
H (mm)	690	705	705	705	705
I (mm)	1 795	1 795	2 204	1 795	2 204
J (mm)	2 340	2 340	2 774	2 340	2 774

TABLE OF SPECIFICATIONS

Maximum operating pressure: 10 bar

Maximum operating temperature: 110°C

Collector stagnation temperature: 198°C

SYSTEM

Number and type of collectors

Collector inlet surface area Aa

Tank capacity

Primary circuit total capacity, standard collectors/SL

DHW heating time* with sun only (800 W/m²) - from 20 to 40 °C

Quantity of DHW heated by heating time with immersion heater only (2 kW) - from 10 to 40 °C

- from 10 to 60 °C

- for an average annual demand of ... L DHW/day) at 45 °C

Solar efficiency indicators for Athens (EN 12976)

- Qd

- QL

- fsol (solar input)

STMO

150-2

200-2

200-3

300-4

300-5

	1 x DH 200 SL	1 x DH 200 SL	1 x CH 250 SL	2 x DH 200 SL	2 x CH 250 SL	
Collector inlet surface area Aa	m²	1 x 1.92	1 x 1.92	1 x 2.40	2 x 3.84	2 x 4.80
Tank capacity	L	144	178	178	274	274
Primary circuit total capacity, standard collectors/SL	L	2.6	2.6	3.1	4.6	5.6
DHW heating time* with sun only (800 W/m²) - from 20 to 40 °C	h	< 8 hrs	< 9 hrs	< 8 hrs	< 7 hrs	< 5 hrs
Quantity of DHW heated by heating time with immersion heater only (2 kW) - from 10 to 40 °C	L	80 L / 1 hr 30	100 L / 2 hrs	100 L / 2 hrs	150 L / 3 hrs	150 L / 3 hrs
- from 10 to 60 °C	L	80 L / 2 hrs 30	100 L / 3 hrs 10	100 L / 3 hrs 10	150 L / 5 hrs	150 L / 5 hrs
- for an average annual demand of ... L DHW/day) at 45 °C	L/day	140	170	170	300	300
Solar efficiency indicators for Athens (EN 12976)	MJ	5 823	8 319	8 319	12 478	12 478
- Qd	MJ	4 053	4 852	5 438	8 242	9 016
- QL	%	69.6	61.4	71.7	66.1	72.3
- fsol (solar input)						

* In winter, you need to add 2 hrs, assuming cold water at 10 °C

SOLAR SYSTEMS

INSTALLATION PRINCIPLE

ON TERRACE



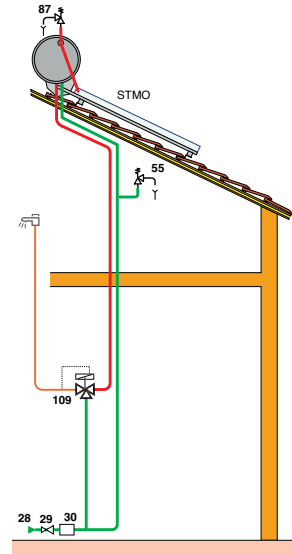
STMO_Q9000

ON ROOF



STMO_Q9001

EXAMPLE OF STMO INSTALLATION



STMO_F0001

The complete solar system (collectors plus DHW tank) is installed outside on a pitched roof or terrace. The collectors heat the tank via the solar circuit filled with glycol water (mix with 10 to 30 % glycol) by thermosiphon as soon as the sun shines. This system does not need any additional energy, and operates wherever there is no frost risk. An electrical back-up is built into the tank for sun-free periods. For tanks with DHW storage, the only periodic maintenance consists in checking the anode. Thermosiphon systems are auto-protected against overheating, and can operate alone or preheating another DHW generator.

• INSTALLATION WITH DH200 SL (2 m²) OR CH250 SL (2.5 m²) COLLECTORS

	Number of people ▶	2 TO 3		3 TO 4		4 TO 5		4 TO 5		> 5		> 5	
		Collector type ▶	DH 200 SL	DH 200 SL	CH 250 SL	DH 200 SL	DH 200 SL	CH 250 SL	CH 250 SL				
Tank	Liters	150	200	200	300	300 *	300	300 *					
	Package	ES210	ES211	ES211	ES213	ES212	ES213	ES212					
	Ref.	7711860	7711861	7711861	7794295	7711862	7794295	7711862					
Installation kit on terrace	Package	ES219	ES219	ES220	ES221	ES221	ES222	ES222					
	Ref.	7733037	7733037	7733039	7733121	7733121	7733127	7733127					
Installation kit on roof	Package	ES223	ES223	ES224	ES225	ES225	ES226	ES226					
	Ref.	7733133	7733133	7733134	7733135	7733135	7733160	7733160					
Collector	Collector	1 x DH 200 SL	1 x DH 200 SL	1 x CH 250 SL	2 x DH 200 SL	2 x DH 200 SL	2 x CH 250 SL	2 x CH 250 SL					
	Package	ER719	ER719	ES214	ER719	ER719	ES214	ES214					
	Ref.	7219377	7219377	7677366	7219377	7219377	7677366	7677366					
Designation complete system on terrace		STMO LP 150-2 SE	STMO LP 200-2 SE	STMO LP 200-3 SE	STMO LP 300-4 SE	STMO LP 300-4 SEH	STMO LP 300-5 SE	STMO LP 300-5 SEH					
	Ref.	7711294	7711295	7711296	7794445	7711298	7794462	7711299					
Designation complete system on roof		STMO ST2 150 E	STMO ST2 200 E	STMO ST3 200 E	STMO ST4 300 E	STMO ST4 300 EH	STMO ST5 300 E	STMO ST5 300 EH					
	Ref.	7726349	7726351	7726352	7726363	7726353	7794468	7726354					

* With additional hydraulic backup

ACCESSORIES FOR SOLAR CIRCUIT

	PACKAGE	REF
• Heat-transporting fluid:		
- BIO premix (20 l) down to - 30 °C	ER316	100017611
- high-performance premix (20 l) down to - 26 °C	EG100	89807792
- standard premix (20 l) down to - 21 °C	EG101	89807794
• Backup set for electric and hydraulic backup		
- E+H for 150 and 200 l tanks	-	7711300
- E+H for 300 l tank	-	7711301

SOLAR SYSTEMS

FOR DOMESTIC WATER PRODUCTION AND/OR HEATING BACK-UP

ADVANCE



C
(400 L)

Dietrisol Quadro Solar System

Equipped solar calorifiers 385 l and 750 l

point

Solar tank with all the accessories



Solar calorifier for DHW production and heating back-up for integration in solarsystems with back-up, to which up to 4 different heating generators can be connected (right or left)

- Equipped with 1 solar exchanger
- To be associated to a boiler or HP with Diematic Control
- The calorifiers comprise a temperature stratification buffer tanks with 400 or 700 litre in very thick steel, fitted with stainless steel coil for DHW production; its construction principle is based on divided zones: an intelligent load technique, based on

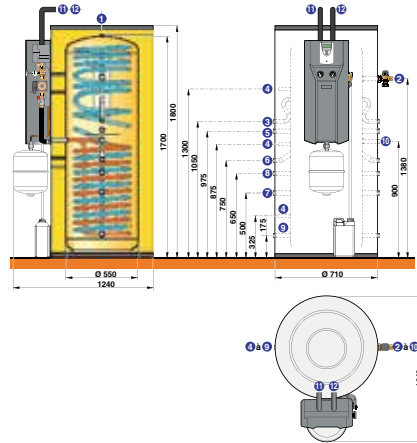
thermo-siphon principle allowed the optimisation of solarenergy production by controlling each zone.

- Pre-fitted with:
 - Complete DKSL 7 MSB solar station with modulating pump with energy efficiency index EEI < 0.23
 - 18 L solar expansion vessel
 - Thermostatic mixing valve
 - Solar regulation SOL PLUS integrable in the solar station with function MCDB and connection kit control/ModBus
 - Cold water connecting set with DHW safety group
- Casing and front covers insulated with ABS
- Packaging: 8 packages

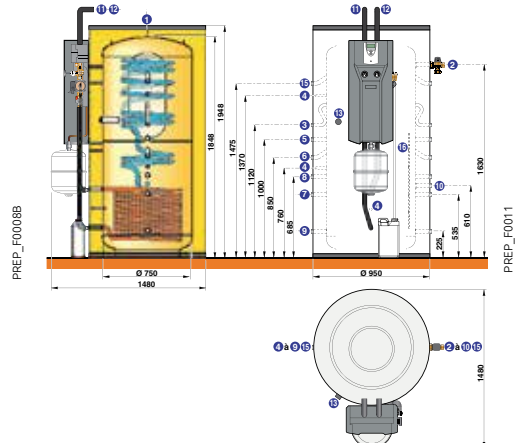
MAIN DIMENSIONS (mm and inches)

- ① Purge Rp 1/2"
 - ② DHW outlet G 1"
 - ③ Quadro 400: heating flow (boiler) G 3/4"
Quadro 700: Heating circuit flow (boiler) G 3/4"
 - ④ Sensor tube Ø16 mm
 - ⑤ DHW return (boiler) G 1"
 - ⑥ Quadro 400: heating flow G 1"
Quadro 700: DHW return G 1"
 - ⑦ Return radiator G 1"
 - ⑧ Heating circuit return (boiler) G 1"
 - ⑨ Return underfloor heating circuit G 1"
 - ⑩ Domestic cold water inlet R 1"
 - ⑪ Solar circuit return DN18
 - ⑫ Solar circuit flow DN18
 - ⑬ Quadro 700: location electrical resistance
 - ⑭ Quadro 700: DHW outlet boiler circuit
 - ⑮ Quadro 700: rule for outdoor system sensor
- R: Conical threading
Rp: Tapped connection

QUADRO SOLAREASY 400



DIETRISOL QUADRO SOLARSYSTEM



TECHNICAL SPECIFICATIONS

Max operating pressure: - primary circuit: 6 bar
- secondary circuit (tank): 6 bar
- DHW circuit: 7 bar

Max. operating temperature: - primary circuit: 110°C
- secondary circuit (tank): 95°C
- DHW circuit: 95°C

MODEL

	INISOL QUADRO	400	700
Energy efficiency class		C	C
Storage volume	l	385	750
Max. collector area	m ²	8 (2)	15 (2)
Buffer tank volume/DHW exchanger volume	l	352/22	750/27
DHW coil exchange area	m ²	4.3	4.3
Solar exchanger volume	l	11	13
Solar exchanger surface	m ²	2.2	2.6
DHW setting	°C	55	55
Exchanged power at ΔT = 35 K for DHW production (in summer) (1)	kW	25	30
Flow per hour at ΔT = 35 K (in summer) (1)	l/h	520	810
DHW storage temperature	°C	65	65
Flow over 10 min at ΔT = 30 K (1)	l/10 min	220	250
Maintenance consumption on back-up zone/Maintenance consumption on total volume	kWh/24h	0.5/0.9	1.5/3.2
Net weight	kg	105	170

(1) cold water temp.: 10°C, primary temperature = DHW setting temperature + 10 K, return tapping in °
(2) Important: only on the case of additional energy requirements in summer, e.g. swimming pool.

MODEL

Solar calorifier QUADRO with casing

INISOL QUADRO	400	700
Ref.	7805658	7805656

ACCESSORIES

	PACKAGE	REF
Hydraulic module with pump with energy efficiency index EEI < 0.23:		
• for 1 direct circuit	EA143	100020167
• for 1 circuit with valve	EA144	100020168
Insulated hydraulic collector for 2 or 3 modules	EA140	100020164
Heat element 3 kW with sensor for Solarsystem	ER394	100019165

ACCESSORIES

	PACKAGE	REF
Wall bracket for 1 hydraulic module	EA142	100020166
Wall bracket for hydraulic collector	EA141	100020165
Compact, 2 circuit hydraulic module with 2 modulating pumps with energy efficiency index EEI < 0.23	MT12	7616233

SOLAR SYSTEMS

FOR DOMESTIC WATER PRODUCTION AND/OR HEATING BACK-UP

Inisol Quadro SolarEasy

Equipped solar calorifiers **385 l and 750 l**

Point

Solar tank with all the accessories

EASYLIFE



Solar calorifier for DHW production and heating back-up for integration in solarsystems with back-up, to which up to 4 different heating generators can be connected (right or left)

- Equipped with 1 solar exchanger
- to be associated to boilers or HP without DIEMATIC control
- The calorifiers comprise a temperature stratification buffer tanks with 400 or 700 litre in very thick steel, fitted with stainless steel coil for DHW production; its construction principle is based on divided zones: an intelligent load technique, based on

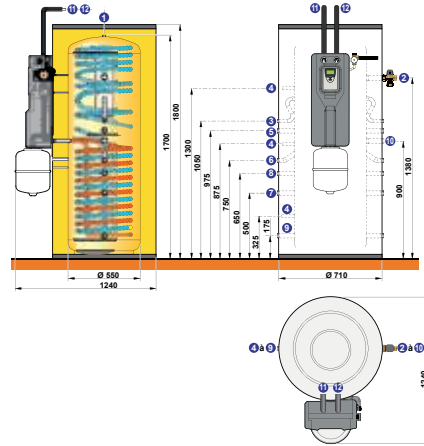
thermo-siphon principle allowed the optimisation of solarenergy production by controlling each zone.

- Supplied with:
 - Complete DKSL 7 MSB solar station with modulating pump with energy efficiency index EEI < 0.23
 - 18 L solar expansion vessel
 - Thermostatic mixing valve
 - Solar regulation SOL PLUS integrable in the solar station
 - 3-way valve with sensor
- Casing and front covers insulated with ABS
- Packaging: 8 or 9 packages according to execution

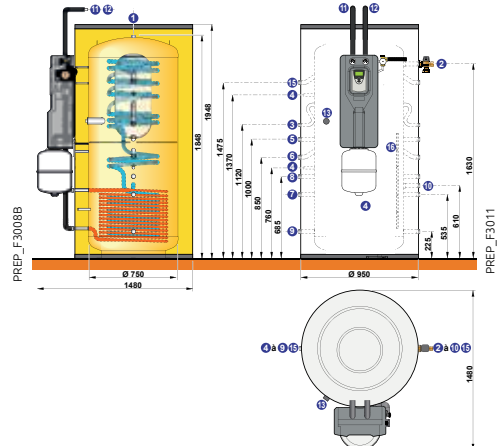
MAIN DIMENSIONS (mm and inches)

- Purge Rp 1/2"
 - DHW outlet G 1"
 - Quadro 400: heating flow (boiler) G 3/4"
Quadro 700: Heating circuit flow (boiler) G 3/4"
 - Sensor tube Ø16 mm
 - DHW return (boiler) G 1"
 - Quadro 400: heating flow G 1"
Quadro 700: DHW return G 1"
 - Return radiator G 1"
 - Heating circuit return (boiler) G 1"
 - Return underfloor heating circuit G 1"
 - Domestic cold water inlet R 1"
 - Solar circuit return DN18
 - Solar circuit flow DN18
 - Quadro 700: location electrical resistance
 - Quadro 700: DHW outlet boiler circuit
 - Quadro 700: rule for outdoor system sensor
- R: Conical threading
Rp: Tapped connection

QUADRO SOLAREASY 400



QUADRO SOLAREASY 700



TECHNICAL SPECIFICATIONS

Max operating pressure: - primary circuit: 6 bar
- secondary circuit (tank): 6 bar
- DHW circuit: 7 bar

Max. operating temperature: - primary circuit: 110°C
- secondary circuit (tank): 95°C
- DHW circuit: 95°C

MODEL

	INISOL QUADRO	400	700
Energy efficiency class		C	C
Storage volume	l	385	750
Max. collector area	m ²	8 (2)	15 (2)
Buffer tank volume/DHW exchanger volume	l	352/22	750/27
DHW coil exchange area	m ²	4.3	4.3
Solar exchanger volume	l	11	13
Solar exchanger surface	m ²	2	2.6
DHW setting	°C	2.2	55
Exchanged power at ΔT = 35 K for DHW production (in summer) (1)	kW	55	30
Flow per hour at ΔT = 35 K (in summer) (1)	l/h	520	810
DHW storage temperature	°C	25	65
Flow over 10 min at ΔT = 30 K (1)	l/10 min	220	250
Maintenance consumption on back-up zone/Maintenance consumption on total volume	kWh/24h	0.5/ 0.9	1.5/ 3.2
Net weight	kg	105	170

(1) cold water temp.: 10°C, primary temperature = DHW setting temperature + 10 K, return tapping in
(2) Important: only on the case of additional energy requirements in summer, e.g. swimming pool.

MODEL

	INISOL QUADRO SOLAREASY	400	700
Solar calorifier QUADRO with casing	Ref.	7805659	7805660

ACCESSORIES

	PACKAGE	REF
Hydraulic module with pump with energy efficiency index EEI < 0.23 for 1 direct circuit	EA144	100020168
Heat element 3 kW with sensor for SolarEasy	ER394	100019165

ACCESSORIES

	PACKAGE	REF
Cold water connecting set	ER404	100019322
Thermostatic mixing valve	EG78	89807767

SOLAR SYSTEMS

FOR DOMESTIC WATER PRODUCTION AND/OR HEATING BACK-UP

Inisol Quadro SolarEasybois Equipped solar calorifiers 750 l

Point

Solar tank with all the accessories

EASYLIFE



C
(400 L)



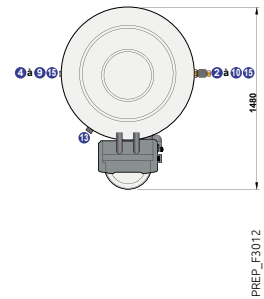
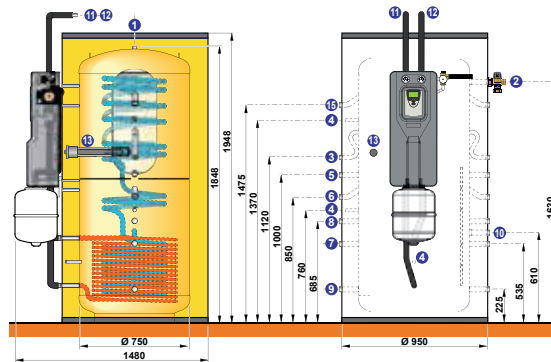
Solar calorifier for DHW production and heating back-up for integration in solarsystems with back-up, to which up to 4 different heating generators can be connected (right or left)

- Equipped with 1 solar exchanger
- To be associated to a biomass boiler
- The calorifiers comprise a temperature stratification buffer tanks with 700 litre in very thick steel, fitted with stainless steel coil for DHW production; its construction principle is based on divided zones: an intelligent load technique, based on thermo-siphon principle allowed the optimisation of solarenergy production by controlling each zone.

- Pre-fitted with:
 - Complete DKSL 7 MSB solar station with modulating pump with energy efficiency index EEI < 0.23
 - 18 L solar expansion vessel
 - Thermostatic mixing valve
 - Solar regulation SOL AEL integrable in the solar station
 - 3 kW Electrical heater Casing and front covers insulated with ABS
- **Packaging:** 8 packages

MAIN DIMENSIONS (mm and inches)

- ① Purge Rp 1/2"
 - ② DHW outlet G 1"
 - ③ Heating circuit flow (boiler) G 3/4"
 - ④ Sensor tube Ø16 mm
 - ⑤ DHW return (boiler) G 1"
 - ⑥ Heating flow G 1"
 - ⑦ Return radiator G 1"
 - ⑧ Heating circuit return (boiler) G 1"
 - ⑨ Return underfloor heating circuit G 1"
 - ⑩ Domestic cold water inlet R 1"
 - ⑪ Solar circuit return DN18
 - ⑫ Solar circuit flow DN18
 - ⑬ Location electrical resistance
 - ⑭ DHW outlet boiler circuit
 - ⑮ Rule for outdoor system sensor
- R: Conical threading
Rp: Tapped connection



PREP_F3012

TECHNICAL SPECIFICATIONS

Max operating pressure: - primary circuit: 6 bar
- secondary circuit (tank): 6 bar
- DHW circuit: 7 bar

Max. operating temperature: - primary circuit: 110°C
- secondary circuit (tank): 95°C
- DHW circuit: 95°C

MODEL

	INISOL QUADRO	700
Energy efficiency class		C
Storage volume	l	750
Max. collector area	m ²	15 (2)
Buffer tank volume/DHW exchanger volume	l	750/27
DHW coil exchange area	m ²	4.3
Solar exchanger volume	l	13
Solar exchanger surface	m ²	2.6
DHW setting	°C	55
Exchanged power at ΔT = 35 K for DHW production (in summer) (1)	kW	30
Flow per hour at ΔT = 35 K (in summer) (1)	l/h	810
DHW storage temperature	°C	65
Flow over 10 min at ΔT = 30 K (1)	l/10 min	250
Maintenance consumption on back-up zone/Maintenance consumption on total volume	kWh/24h	1.5/3.2
Net weight	kg	170

(1) cold water temp.: 10°C, primary temperature = DHW setting temperature + 10 K, return tapping in °
(2) Important: only on the case of additional energy requirements in summer, e.g. swimming pool.

MODEL

	INISOL QUADRO SOLAREASYBOIS	700
Solar calorifier QUADRO with casing	Ref.	7805661

ACCESSORIES

	PACKAGE	REF
DIEMATIC VM iSystem control	AD281	100018254
Hydraulic module with pump with energy efficiency index EEI < 0.23:		
• for 1 direct circuit	EA143	100020167
• for 1 circuit with valve	EA144	100020168
Insulated hydraulic collector for 2 or 3 modules	EA140	100020164
Wall bracket for 1 hydraulic module	EA142	100020166
Wall bracket for hydraulic collector	EA141	100020165

ACCESSORIES

	PACKAGE	REF
Compact, 2 circuit hydraulic module with 2 modulating pumps with energy efficiency index EEI < 0.23	MT12	7616233
Cold water connecting set	ER404	100019322




ACCESSORIES

FOR DOMESTIC SOLAR SYSTEMS





CONTROL UNITS

SOL PLUS, SOL AEL control units control solar heating systems with 1 or 2 solar calorifiers, or even 1 calorifier and 1 swimming pool. They only manage the solar circuit; back-up or secondary circuits have to be controlled either by the boiler control unit or by an external control unit, such as DIEMATIC VM iSystem.





SOLAR CONTROL UNITS

		PACKAGE	REF
 <p>ES141</p> <p>CS2_Q0001</p>	<p>CS2+ For controlling a solar installation with 1 calorifier fitted with 1 exchanger. Delivered with 2 sensors (TC and TS). The unit is able to control the heating/electrical back-up.</p>	ES141	7797547
 <p>ER709</p> <p>SOL_Q0001</p>	<p>SOL PLUS control For controlling a solar water heater with calorifier fitted with 1 or 2 exchanger enabling heating zone reversal (e.g. TRIO) or a combined solar heating system with 3-way boiler return relief valve on the heating return circuits. Delivered with 3 sensors (TC, TS and TR).</p>	ER709	7630422
 <p>ER672</p> <p>SOL_Q0005</p>	<p>SOL SC. 5 control system For controlling a solar installation with 1 or 2 collector fields and 1 or 2 solar calorifiers (one of which may have heating zone reversal) or 1 solar calorifier and 1 swimming pool with load and unload control and recover the return temperature. Delivered with 4 sensors (TC, TS, TP and TE).</p>	ER672	7619972

OPTIONS FOR SOLAR REGULATIONS

		PACKAGE	REF
 <p>EC173 EC171 EC155</p> <p>8990Q0021</p>	<p>Sensor:</p> <ul style="list-style-type: none"> • PT 1000 dip sensor • PT 1000 contact sensor • PT 1000 collector sensor 	EC173	100004651
 <p>ER712</p> <p>SOL_Q0003</p>	<p>Connecting kit (PWM) for a 2 solar pumps Allows the connection of a second solar pump on the SOL PLUS control system. (installation with 2 tanks or 2 x East/west collector fields).</p>	ER712	7630423
 <p>ER713</p> <p>SOL_Q0002</p>	<p>ModBUS connecting cable (length 3m) For connection between a SOL PLUS control system and a DIEMATIC iSystem control panel.</p>	ER713	7630424
 <p>EC176</p> <p>8990Q279</p>	<p>Lightning conductor unit for SOL control system (to be fitted to the collector on the solar sensor circuit).</p>	EC176	89804816

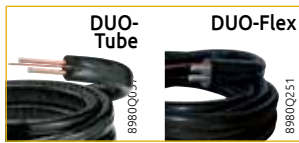
SOLAR STATIONS FOR BSL AND BESL DHW TANKS

		PACKAGE	REF
 <p>ER655 ES172 ES173</p> <p>8990Q310 Q0003 Q0001</p>	<p>Solar stations:</p> <ul style="list-style-type: none"> • SKP 7-8 (system for DHW production) For a maximum of 8 m² of collectors (manometric height of the solar pump: 7 m) Option of including a SOL PLUS control unit • DKSC 7 (system for DHW production) For assembly on BSL... N or on the wall • DKSL 7 MSB (system for DHW production) For direct installation on BSL/BESL tanks (200 to 500 liters) or on wall 	ER655	7624853
 <p>ES176</p> <p>8990Q303</p>	<p>► Installation kits:</p> <ul style="list-style-type: none"> • Tube kit for DKSL 6-8 MSB solar station assembly on BSL/BESL... N tanks For a maximum of 8 m² of collectors (manometric height of the solar pump: 7 m) These solar station is fitted with all the components required for the optimal operation of the solar installation: solar pump, non return valves, safety valve, manometer, air/water separator with manual air vent, filling and draining system, thermometers, a flow indicator... Option of including a SOL AEL and SOL PLUS control unit 	ES176	7792528
 <p>EC164</p> <p>8990Q240</p>	<p>3-way valve 3/4" 3-way 3/4" valve for 2 circuits with SOL PLUS control unit</p>	EC164	89804803
 <p>EC432</p> <p>8990Q260</p>	<p>Kit 2 with 2 valves + sensor For controlling a solar circuit with 2 collectors fields (East/West) with SOL PLUS control unit</p>	EC432	100011341

ACCESSORIES

FOR DOMESTIC SOLAR SYSTEMS

HYDRAULIC OPTIONS FOR SOLAR STATION



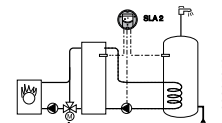
	PACKAGE	REF
Double, pre-insulated "DUO-TUBE" or "DUO-FLEX" pipes with UV protection and cable for sensor (bicone connectors are to be ordered separately):		
• Duo-Tube Cu 10 x 10 m	ER319	100020297
• Duo-Tube Cu 15 x 10 m	EG106	89807000
• Duo-Tube Cu 15 x 15 m	EG107	89807001
• Duo-Tube Cu 18 x 15 m	EG108	89807002
• Duo Flex in ribbed stainless steel Ø 16 x 15 m (with easyclic connection)	EG422	7648217
• Duo Flex in ribbed stainless steel Ø 20 x 15 m (with easyclic connection)	EG423	7648218
• Duo Flex in ribbed stainless steel Ø 20 x 20 m (with easyclic connection)	EG424	7648219
Set of collars "Duo-Tube" and "Duo-Flex"		
• for Duo-Tube Cu 15 and Duo-Flex Ø 16mm, 4 parts	EG109	89807003
• for Duo-Tube Cu 18 and Duo-Flex Ø 20mm, 4 parts	EG110	89807004
Set of bicone connectors for "Duo-tube" or "Duo-Flex" (without soldering)		
• Set of 2 bicone connectors Ø 15mm (for Duo-tube)	EG374	100000417
• Set of 2 bicone connectors Ø 18mm (for Duo-tube)	EG375	100000418
• Set of 2 bicone connectors Ø 15/18mm (for Duo-tube and Duo-Flex)	EG376	100000419
Expansion vessels		
• 18 litres	EG117	100019427
• 25 litres	EG118	100019428
• 40 litres	EG83	89807772
• 80 litres	EG84	89807773
Wall bracket for expansion vessel up to 25 litres	EC118	89807238

OPTION SECONDARY WATER CIRCUIT

DIFFERENTIAL CONTROL SYSTEM



Differential control system SLA 2
 - to control the temperature of an independent tank combined with a boiler without control system, a storage tank with wood-fired boiler, or a solar storage tank,
 - to monitor the heating return and bypass the solar tank if the return temperature is higher than the temperature in the solar tank.
 Delivered with 3 sensors.



EC320 100007832

HEAT TRANSFER FLUID - ACCESSORIES MAINTENANCE SOLAR CIRCUIT



	PACKAGE	REF
Heat transfer fluid		
• Pre-mix type L 60/40, 20 litres	EG101	89807794
• "High performance" pre-mix type LS, 20 litres	EG100	89807792
• Pre-mix "BIO" type LR 25, 20 litres (-30°C)	ER316	100017611

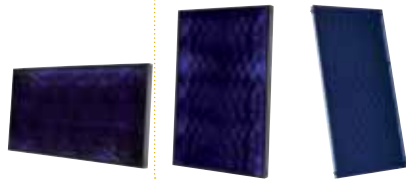


	PACKAGE	REF
Miscellaneous		
• Filling station with pump and jerrican	EG81	89807770
• Hand pump for fluid back-up	EG80	89807769
• Antifreeze protection tester (for checking the heat transfer fluid)	EG102	89807797
• Measuring box with refractometer	EG104	89807799
• Check box for solar installation	ER50	100012031
• Cleaning material for solar circuit SolRnet	ER318	100020025

COMMERCIAL SELECTION GUIDE

SOLAR COLLECTORS

SOLAR CALORIFIERS



DIETRISOL PRO C250H

DIETRISOL PRO C250V

DIETRISOL PRO C250TB

B 650-3000

B 802, B 1002

RSB 800 TO 3000

PS 600 TO 3000

FWS

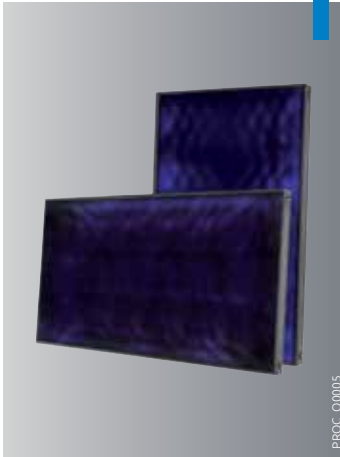
PSB 600 TO 3000

	DIETRISOL PRO C250H	DIETRISOL PRO C250V	DIETRISOL PRO C250TB	B 650-3000	B 802, B 1002	RSB 800 TO 3000	PS 600 TO 3000	FWS	PSB 600 TO 3000
+ point	High efficiency Low pressure drops	High efficiency Low pressure drops	High efficiency Low pressure drops	-	-	-	-	-	-
Collectors	flat	flat	flat	-	-	-	-	-	-
Input area	m ² 2.4	2.4	2.4	-	-	-	-	-	-
For mounting	• vertical	-	X	X	-	-	-	-	-
	• horizontal	X	-	-	-	-	-	-	-
	• on roof	X	X	X	-	-	-	-	-
	• roof integration	X	X	-	-	-	-	-	-
	• on terrace	X	X	X	-	-	-	-	-
Solar calorifiers	• DHW production	-	-	-	X	X	-	-	X
	• hot water storage	-	-	-	-	-	X	-	-
	• primary storage	-	-	-	-	-	-	X	X
Hydraulic back-up	• integrated	-	-	-	-	X	-	-	X
	• accessories	-	-	-	-	-	-	-	-
Application	Solar systems pressurized preferably	Solar systems pressurized preferably	Solar systems pressurized or drainback	Direct solar DHW preheating	DHW Production with integrated solar preheating	DHW storage	Direct solar preheating of heating water	Instantaneous DHW production with included and optimized solar preheating	Heating water storage
Pages	228	228	231	237	232	232	236	197	237
Solar accessories	233/235	233/235	233/235	233/235	233/235	233/235	233/235	233/235	233/235

SOLAR SYSTEMS

FOR DOMESTIC HOT WATER PRODUCTION FOR INSTALLATIONS IN BLOCK OF FLATS

PROJECT



Dietrisol PRO C250V and PRO C250H

Flat solar collectors

point

Vertical or horizontal assembly according to the model



PRO C250V: 078/000115
PRO C250H: 078/000143



n°14/15-2086*Ext.

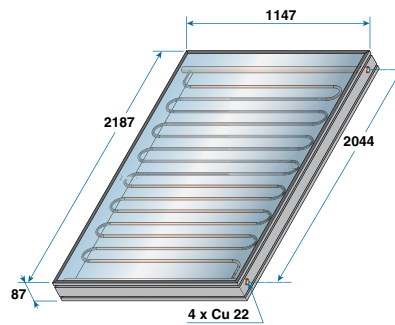
Flat, high-performance collectors for horizontal (PRO C250H) and vertical (PRO C250V) mounting on roof, terrace or roof integration

- Flat absorber in aluminium with selective coating and single-pipe exchanger, sinusoid in shape, Ø 10 mm, laser-welded, connected to 2 collector pipes Ø 22 mm for connection in series in batteries (up to 10 collectors)
- Insulation in rock wool, rear thickness 40 mm
- Casing in anthracite grey painted aluminium profiling with fastening groove on the surround and rear closing cover in aluminium

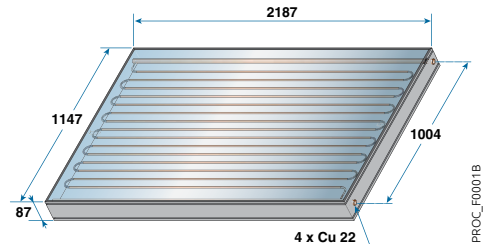
- Translucid panel in safety glass, thickness 3.2mm, translucency > 91%
- Mounting systems for terraces, roof and roof integration, hydraulic connection kits and kits for interconnecting collectors and collector fields
- Multi-use in systems with forced circulation of heat-carrying fluid provided by us, ex drain-back

MAIN DIMENSIONS (mm and inches)

PRO C250V



PRO C250H



TECHNICAL SPECIFICATIONS

Operating pressure: 2,5 bar Max. operating pressure 10 bar Max. operating temperature: 120°C Stagnation temperature: 198°C

MODEL

	DIETRISOL	PRO C250H	PRO C250V
Total gross area (Ag)	m ²	2.51	2.51
Input area (Aa)	m ²	2.37	2.37
Absorber area (AA)	m ²	2.354	2.354
Fluid capacity	l	2.9	2.9
Recommended flow rate	l/h.m ²	30	30
Fluid resistance (30 l/h.m ²)	mbar	75	85
Test pressure bar	bar	10	10
Absorber factor (a)	%	> 95 +/- 1	> 95 +/- 1
Emissivity (ε)	%	> 5 +/- 1	> 5 +/- 1
Optical yield (ηOA)	%	81.2	81.4
Transmission loss coeff. (a1)	W/m ² .K	3.641	3.639
Transmission loss coeff. (a2)	W/m ² .K ²	0.0128	0.0089
Weight empty	kg	47	47

MODEL

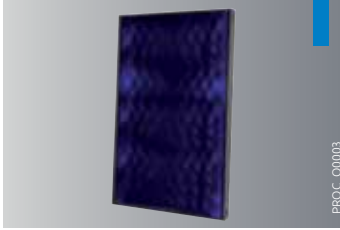
	DIETRISOL	PRO C250H	PRO C250V
Package		ER241	ER240
Ref.		100016503	100016502

SOLAR SYSTEMS

REFERENCE LIST OF THE PACKAGES REQUIRED INSTALLATIONS IN BLOCK OF FLATS UP TO 10 COLLECTORS PRO C250V

PROJECT

DIETRISOL PRO C 250V



DESCRIPTION

DESCRIPTION	PACKAGE	REF	NUMBER OF PRO C250V COLLECTORS MOUNTED IN PARALLEL ON 1 LINE																
			1	2	3	4	5	6	7	8	9	10							
			2.4 m²	4.8 m²	7.1 m²	9.5 m²	11.9 m²	14.3 m²	16.7 m²	19 m²	21.4 m²	23.8 m²							
PACKAGED FLAT COLLECTORS																			
• 1 flat collector PRO C250V	ER240	100016502	1	2	3	4	5	6	7	8	9	10							
ACCESSORIES FOR THE HYDRAULIC CONNECTION OF THE PRO C250V COLLECTOR																			
• Hydraulic connection kit for a collector field	ER245	100016506	1	1	1	1	1	1	1	1	1	1							
• Hydraulic connection kit between 2 collectors	ER246	100016507	-	1	2	3	4	5	6	7	8	9							
• Hose kit for connecting a collector field to the solar circuit (optional)	ER247	100016508	1	1	1	1	1	1	1	1	1	1							
TERRACE (OR GROUND) MOUNTING SYSTEMS																			
► Systems for high loads of wind and snow (High Load)																			
• Basic HL terrace support for mounting 1 x PRO C250V	ER250	100016509	1	1	1	1	1	1	1	1	1	1							
• Extension HL terrace support for mounting 1 x additional PRO C250V	ER251	100016510	-	1	2	3	4	5	6	7	8	9							
or																			
► Systems for standard loads of wind and snow (Standard Load)																			
• Basic SL terrace support for mounting 1 x PRO C250V	ER658	7217038	1	1	1	1	1	1	1	1	1	1							
• Extension SL terrace support for mounting 1 x additional PRO C250V	ER659	7217039	-	1	2	3	4	5	6	7	8	9							
• Clip-on profile kit for 1 x PRO C250V	ER664	7217044	1	2	3	4	5	6	7	8	9	10							
ROOF INTEGRATION MOUNTING SYSTEMS																			
• Basic kit for integration in mechanical tile $\geq 22^\circ$ for 1 x PRO C250V	ER634	7212864	1	-	-	-													
• Basic kit for integration in mechanical tile $\geq 22^\circ$ for 2 x PRO C250V	ER635	7212869	-	1	1	1													
• Extension kit for integration in mechanical tile $\geq 22^\circ$ for 1 x additional PRO C250V	ER636	7212867	-	-	1	2													
• With flat/slates tiles, order a flashing kit	ER558	7503269	1	1	1	1	1	1	1	1									
ROOF MOUNTING SYSTEMS (profile kit and anchorage fittings)																			
• Clip-on profile kit for 1 x PRO C250V (for use in combination with the anchorage fittings below)	ER664	7217044	1	2	3	4	5	6	7	8	9	10							
ANCHORAGE FITTING FOR TILED ROOF INSTALLATION (4)																			
• For roofs without rafters																			
Universal hook for mechanical tile	4 pcs	EG311	89807311	1	-	2	1	-	2	1	-	2	1						
	6 pcs	EG312	89807312	-	1	-	1	2	1	2	3	2	3						
(Mounting on 2 battens, min. cross section 30 x 90mm, provided)				not delivered	300	300	400	600	700	800	1000	1200	1300	1400					
• Fitting on hooks																			
Tiles*	Mechanical (stainless steel)	Mechanical (to clip, aluminum)	Flat (stainless steel)	Canal (stainless steel)	Sheeting (stainless steel)	Slates (stainless steel)													
Pack.	EG313	ES24	EG315	ER136	EG317	EG319													
Ref.	89807313	7654649	89807315	100015314	89807317	89807319	4 pcs	(2)	89807313	1	-	2	1	-	2	1			
Pack.	EG314	-	EG316	ER137	EG318	EG320													
Ref.	89807314	-	89807316	100015315	89807318	89807320	6 pcs	(2)	89807314	-	1	-	1	2	1	2	3	2	3
• Coach bolt kit for mounting on canal tile																			
							6 pcs	EG94	89807782	1		2		1	4	2		6	5
							8 pcs	EG95	89807783	-	1		2	2		2	4		

* For other types of tiles, contact us

(2) To be chosen according to the type of roofing as well as the profiles

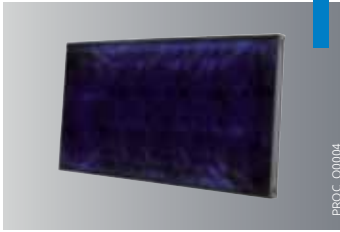
(4) **In areas with heavy snow and roof slopes $\leq 35^\circ$, the number of hooks should be doubled.**

SOLAR SYSTEMS

REFERENCE LIST OF THE PACKAGES REQUIRED INSTALLATIONS IN BLOCK OF FLATS UP TO 10 COLLECTORS PRO C250H

PROJECT

DIETRISOL PRO C 250H



DESCRIPTION

DESCRIPTION	PACKAGE	REF	NUMBER OF PRO C250H COLLECTORS MOUNTED IN PARALLEL ON 1 LINE																
			1	2	3	4	5	6	7	8	9	10							
			2.4 m²	4.8 m²	7.1 m²	9.5 m²	11.9 m²	14.3 m²	16.7 m²	19 m²	21.4 m²	23.8 m²							
PACKAGED FLAT COLLECTORS																			
• 1 solar collector PRO C250H	ER241	100016503	1	2	3	4	5	6	7	8	9	10							
ACCESSORIES FOR THE HYDRAULIC CONNECTION OF THE PRO C250H COLLECTOR																			
• Hydraulic connection kit for a collector field	ER245	100016506	1	1	1	1	1	1	1	1	1	1							
• Hydraulic connection kit between 2 collectors	ER246	100016507	-	1	2	3	4	5	6	7	8	9							
• Hose kit for connecting a collector field to the solar circuit (optional)	ER247	100016508	1	1	1	1	1	1	1	1	1	1							
TERRACE (OR GROUND) MOUNTING SYSTEMS																			
▶ Systems for high loads of wind and snow (High Load)																			
• Basic HL terrace support for mounting 1 x PRO C250H	ER252	100016511	1	1	1	1	1	1	1	1	1	1							
• Extension HL terrace support for mounting 1 x additional PRO C250H	ER253	100016512	-	1	2	3	4	5	6	7	8	9							
or																			
▶ Systems for standard loads of wind and snow (Standard Load)																			
• Basic SL terrace support for mounting 1 x PRO C250H	ER656	7217041	1	1	1	1	1	1	1	1	1	1							
• Extension SL terrace support for mounting 1 x additional PRO C250H	ER657	7217042	-	1	2	3	4	5	6	7	8	9							
• Clip-on profile kit for 1 x PRO C250H	ER662	7217048	1	2	3	4	5	6	7	8	9	10							
ROOF INTEGRATION MOUNTING SYSTEMS																			
• Basic kit for integration in mechanical tile $\geq 22^\circ$ for 1 x PRO C250H	ER637	7212866	1	-	-	-													
• Basic kit for integration in mechanical tile $\geq 22^\circ$ for 2 x PRO C250H	ER638	7212870	-	1	1	1													
• Extension kit for integration in mechanical tile $\geq 22^\circ$ for 1 x additional PRO C250H	ER639	7212868	-	-	1	2													
• With flat/slates tiles, order a flashing kit	ER558	7503269	1	1	1	1													
ROOF MOUNTING SYSTEMS (profile kit and anchorage fittings)																			
• Clip-on profile kit for 1 x PRO C250H (for use in combination with the anchorage fittings below)	ER662	7217048	1	2	3	4	5	6	7	8	9	10							
ANCHORAGE FITTING FOR TILED ROOF INSTALLATION (4)																			
• For roofs without rafters																			
Universal hook for mechanical tile	4 pcs	EG311	89807311	1	2	-	1	2	-	1	2	-	1						
	6 pcs	EG312	89807312	-	-	2	2	2	4	4	4	6	6						
(Mounting on 2 battens, min. cross section 30 x 90mm, provided)	cm	not delivered		300	300	400	600	700	800	1000	1200	1300	1400						
• Fitting on hooks (except EG311/EG312)																			
Tiles*	Mechanical (stainless steel)	Mechanical (to clip, aluminum)	Flat (stainless steel)	Canal (stainless steel)	Sheeting (stainless steel)	Slates (stainless steel)													
Pack.	EG313	ES24	EG315	ER136	EG317	EG319	4 pcs	(2)	89807313	1	2	-	1	2	-	1			
Ref.	89807313	7654649	89807315	100015314	89807317	89807319													
Pack.	EG314	-	EG316	ER137	EG318	EG320	6 pcs	(2)	89807314	-	-	2	2	2	4	4	4	6	6
Ref.	89807314	-	89807316	100015315	89807318	89807320													
or																			
• Coach bolt kit for mounting on canal tile	6 pcs	EG94	89807782	2	-	-	-	2	8	4	-	-	10						
	8 pcs	EG95	89807783	-	2	3	4	4	-	4	8	7	-						

* For other types of tiles, contact us

(2) To be chosen according to the type of roofing as well as the profiles

(4) In areas with heavy snow and roof slopes $\leq 35^\circ$, the number of hooks should be doubled.

SOLAR SYSTEMS

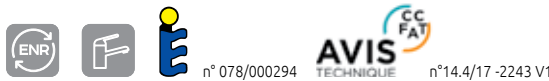
FOR DOMESTIC HOT WATER PRODUCTION

PROJECT



Dietrisol PRO C250TB

Flat solar collectors



point

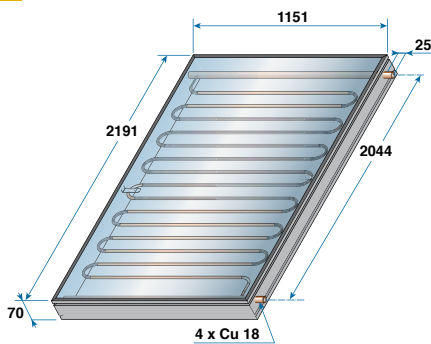
Vertical mounting only

- Collectors for vertical assembly on a roof or terrace
- Flat absorber in aluminium with selective coating and drainable single-tube 10 mm sinusoidal laser-welded exchanger connected to 2 Ø 18 mm collector tubes for series connection (up to 8 collectors)
- Rear and side 30 mm thick glass wool insulation
- Casing in anthracite grey lacquered aluminium profiles with mounting groove around the edge, aluminium rear cover,
- Translucent window in 3.2 mm thick safety glass,
- Translucency > 91 %,

- Systems for installing on terraces or roofs, hydraulic connection kits and kits for connecting collectors and collector fields
- Multiple use in our own forced circulation systems containing heat-transporting fluid, or in drainback configuration

NOTE: solar collectors must be kept in an area sheltered from bad weather.

MAIN DIMENSIONS (mm and inches)



TECHNICAL SPECIFICATIONS

Operating pressure: 6 bar
Max. operating pressure 10 bar

Max. operating temperature: 120°C

MODEL

	DIETRISOL	PRO C250TB
Total gross area (A _g)	m ²	2.52
Input area (A _i)	m ²	2.40
Absorber area (A _a)	m ²	2.35
Fluid capacity	L	1.4
Recommended flow rate	L/h. m ²	50
Stagnation temperature	°C	190
Optical yield (η ₀)	%	76
Loss coefficient trough transmission (a _{1a})	W/m ² .K	3.71
Loss coefficient trough transmission (a _{2a})	W/m ² .K ²	0.014
Angle of incidence factor (η _{sp})	%	95
Net weight	kg	36

MODEL

	DIETRISOL	PRO C250TB
Package		ER836
Ref.		7668033

REFERENCE LIST OF THE PACKAGES REQUIRED FOR SOLAR SYSTEMS UP TO 8 COLLECTORS PRO C250TB

DESCRIPTION

DESCRIPTION	PACKAGE	REF	NUMBER OF PRO C250TB COLLECTORS ON 1 LINE							
			1	2	3	4	5	6	7	8
			2,4 M ²	4,8 M ²	7,1 M ²	9,5 M ²	11,9 M ²	14,3 M ²	16,7 M ²	19 M ²
PACKED COLLECTOR										
• 1 solar collector PRO C250TB	ER836	7668033	1	2	3	4	5	6	7	8
ACCESSORIES FOR THE HYDRAULIC CONNECTION OF PRO C250TB										
• Hydraulic connection kit for 2 collectors (bicone)	ER837	7668056	1	1	1	1	1	1	1	1
• Hydraulic connection kit between 2 collectors (bicone)	ER838	7668058	-	-	1	2	3	4	5	6
TERRACE (OR GROUND) MOUNTING SYSTEMS										
▶ Systems for standard loads of wind and snow (Standard Load)										
• Basic SL terrace support for mounting 1 x PRO C250TB	ER658	7217038	1	1	1	1	1	1	1	1
• Extension SL terrace support mounting for 1 additional 1 x PRO C250TB	ER659	7217039	-	1	2	3	4	5	6	7
• Clip-on profile kit for 1 x PRO C250TB	ER839	7674602	1	2	3	4	5	6	7	8
ROOF MOUNTING SYSTEMS (profile kit and anchorage fittings)										
• Clip-on profile kit for 1 x PRO C250TB (for use in combination with the anchorage fittings below)	ER839	7674602	1	2	3	4	5	6	7	8
ANCHORAGE FITTING FOR ROOF INSTALLATION (3)										
• For roof without rafters										
Universal aluminium hook for mechanical tile	4 pcs EG311	89807311	1	-	2	1	-	2	1	-
	6 pcs EG312	89807312	-	1	-	1	2	1	2	3
	Mounting on 2 battens, min. cross section 30 x 90 mm (cm)	not delivered	300	300	400	600	700	800	1000	1200
• Fitting on hooks										
Tiles*	Mechanical (stainless steel)	Mechanical (to clip, aluminum)	Flat (stainless steel)	Canal (stainless steel)	Sheeting (stainless steel)	Slates (stainless steel)				
Pack.	EG313	ES24	EG315	ER136	EG317	EG319				
Ref.	89807313	7654649	89807315	100015314	89807317	89807319	4 pcs (2)	89807313	1	-
Pack.	EG314	-	EG316	ER137	EG318	EG320				
Ref.	89807314	-	89807316	100015315	89807318	89807320	6 pcs (2)	89807314	-	1
or										
- Coach bolt kit for mounting on canal tile	6 pcs EG94	89807782	1	-	2	-	1	4	2	-
	8 pcs EG95	89807783	-	1	-	2	2	-	2	4

* For other types of tiles, contact us. (1) With flat/slates tiles: order a flashing kit - package ER558, Ref.: 7503269. (2) To be chosen according to the type of roofing as well as the profiles.

(3) In areas with heavy snow and roof slopes ≤ 35°, the number of hooks should be doubled.

SOLAR SYSTEMS

DOUBLE EXCHANGER SOLAR CALORIFIERS

PROJECT



RSB_Q0004A

B 802 and B 1002 HR/HS (double coil)

Solar calorifiers 800 and 1000 l

point

Domestic hot water flow up to 1050 litres per hour



High performance DHW solar calorifiers

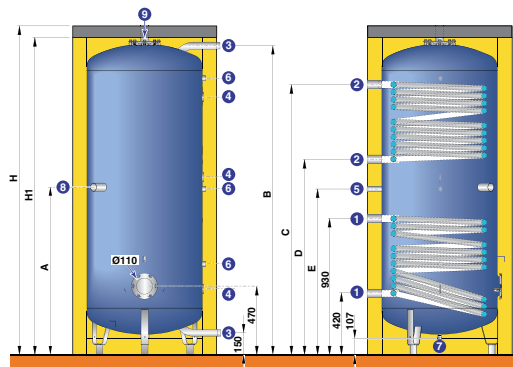
- Enamelled steel tank of food standards quality with double bottom to take into account the volume located under the solar exchanger to obtain lower return temperatures
- Lower exchanger, intended for connection to the solar installation
- Upper exchanger, intended for connection to the boiler
- Insulation available in 2 version:
 - Rigid outer casing (HR), in 120 mm thick polyester fibers, with external skin in polystyrol

- Flexible outer casing (HS), in 100 mm thick mineral wool with external skin in PVC, fire classification M1
- Protection by magnesium anode
- Drain opening and inspection trap
- Insulation in polyester fibres 120 mm thick with external skin in polystyrol
- Packaging: 2 packages

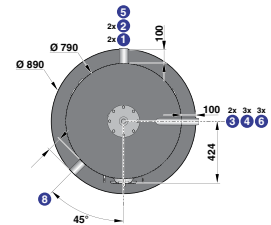
MAIN DIMENSIONS (mm and inches)

- ① Solar exchanger inlet /outlet Rp 1" 1/2
- ② Boiler exchanger outlet Rp 1" 1/2
- ③ Inlet /outlet storage water Rp 1" 1/2
- ④ Sensor tube
- ⑤ Recirculation
- ⑥ Space for sensor tube /anode 3/4"
- ⑦ Drainage with plug R 3/4"
- ⑧ Space for electrical resistance Rp 1" 1/2
- ⑨ DHW outlet/purge Rp 2"

Switchover dimension:
B 802: 2010 mm
B 1002: 2220 mm



	A	B	C	D	E	H	H1
B 802	976	1889	1542	1134	1024	2055	1955
B 1002	1147	2115	1847	1337	1133	2271	2171



PREP_F0004

TECHNICAL SPECIFICATIONS

Max. operating temperature: - primary (exchangers): 95°C
- secondary (tank): 95°C

Max operating pressure: - primary (exchangers): 12 bar
- secondary (tank): 7 bar

MODEL

	B 802				B 1002				
Energy efficiency class	C				C				
Capacity	l				l				
Auxiliary heating volume	310				350				
Solar volume	490				550				
Exchanger	lower (solar)		upper (boiler)		lower (solar)		upper (boiler)		
Exchanger capacity	l		l		l		l		
Exchange surface	m ²		m ²		m ²		m ²		
Primary flow	m ³ /h		m ³ /h		m ³ /h		m ³ /h		
Water resistance	mbar		mbar		mbar		mbar		
Primary input temperature	°C	50	70	70	80	50	70	70	
Exchanged power (1)(2)	kW	4.5	12.5	29	39	4.8	13.2	32	
Flow per hour (1)(2)	l/h	-	-	370	960	-	-	410	
Max. flow over 10 min. at ΔT = 30 K (1)(3)	l/10 mn	420		420		465		465	
Coefficient of heat losses (HR/HS)	W/K	2.8/3		2.8/3		2.9/3.2		2.9/3.2	
Shipping weight	kg	270		270		335		335	

(1) Cold water temp. 10°C. (2) DHW temp. 45°C. (3) DHW temp. 40°C, DHW storage temp. 65°C, values measured only on the auxiliary volume.

MODEL

	B 802		B 1002	
Tank	Package	AJ85	Package	AJ86
	Ref.	7650487	Ref.	7650488
Rigid casing (HR)	Package	AJ95	Package	AJ97
	Ref.	7650497	Ref.	7650499
Flexible casing (HS) (M1 fire classification)	Package	AJ115	Package	AJ117
	Ref.	7650534	Ref.	7650554

OPTIONS

ACCESSORIES

	PACKAGE	REF
Sensor tube 1/2" (350 mm)	AJ162	7651078
Electrical resistance 6 kW/400 V with setting thermostat	AJ36	89757750
Thermometer	AJ32	89757746

ACCESSORIES

FOR COLLECTIVE SOLAR INSTALLATIONS

SOLAR STATIONS FOR COLLECTIVE SOLAR SYSTEMS



SK_Q0014

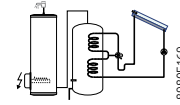
SOLAR STATIONS

- SKS 13-45

For a maximum of 40 m² of collectors (manometric height of the solar pump 13 m)

These solar station is fitted with all the components required for the optimal operation of the solar installation: solar pump, non return valves, safety valve, manometer, air/water separator with manual air vent, filling and draining system, thermometers, a flow indicator...

Possibility to include a SOL PLUS control unit.



PACKAGE

REF

ER665 **7619964**



ER667

SK_Q0003

- STS 14-30 CME (1)

ER667 **7619966**

- STS 14-50 CME (1)

ER668 **7619967**

- STS 14-100 CME (1)

ER669 **7619968**

- STS D 14-200 CME (1)

ER670 **7619970**



ER668

SK_Q0005

For installations with up to 400 m² of collectors, with exchanger suitable for DHW and heating water

Use:

These stations are suitable for installations with DIETRISOL PRO C 250 or POWER collectors combined with tanks with no integrated exchanger.

Construction:

these stations are fitted with all the components needed to allow optimum operation of the solar installation with plate exchanger in "low flow" (15 l/m².h) with the SOL SC. 5 control system: All the valves, pumps, etc. have been sized in relation to operating requirements according for the "low flow" principle of De Dietrich solar systems.

Included for all stations are: the plate exchanger, the primary and secondary pumps, the 6-bar safety valve (primary and secondary circuit), the anti-thermosiphon valves, the pressure gauge, the filling and drainage valves, the thermometers. All these transfer stations are, as standard, equipped with a volumetric energy meter for an accurate count of contribution solar.

The STS D 14-200 is made of 2 solar stations mounted in cascade or an aluminium frame.



ER669

SK_Q0007



ER670

SK_Q0013

(1) Solar station STS:

available only on order. If hard water, a water softener is imperative to product.

ACCESSORIES

FOR COLLECTIVE SOLAR INSTALLATIONS

SOLAR STATIONS FOR SELF-DRAINING SOLAR SYSTEMS

SOLAR STATIONS FOR COLLECTOR FIELDS WITH PROC 250 TB (OR INISOL DH 200 SL) < 23M² AND CALORIFIERS B..., QUADRO OR PS... .



SOL_Q009

DB 15-15 S + tank

Solar station for self-draining system with 20 m² of SL or TB type flat collectors and a solar tank with integrated exchanger.
It integrates a 15 mCE pump, the solar control system and a retention tank for 15 litres of fluid (max. 6 collectors)

PACKAGE REF

- 7797667



SOL_Q0010

Drain tank

Return tank for additional fluid for DB15S station, to be installed for collector surface areas ≥ 15 m². To be mounted in series with the standard tank.

ES175 7785116



SOL_Q05000

Solar station DB15-15 S for drainback system

For self-draining system with 15 m² of SL or TB type flat collectors and a solar tank with integrated exchanger. It integrates a 14 mCE pump and the solar control system.

ES170 7785101

SOLAR STATIONS FOR COLLECTOR FIELDS WITH DIETRISOL PRO C 250 TB/250V/250 H > 23M²



SOL_Q0006

For assembly on a B or PS calorifier (with built-in exchanger)

- Solar station DB 50S

For connection to any type of tank or storage tank

PACKAGE REF

ER576 7670573

- Solar station STSDB 50

ER577 7670574

- Solar station STSDB 100

ER578 7670576

- Solar station STSDB 150

ER579 7670577

These energy transfer units for solar circuits are all supplied assembled and factory tested in plain, compact packaging with easy access to all components. They contain all the components required for correct operation, filling and maintenance of a self-draining collective solar installation, including:

- the heat-transporting fluid recovery tank,
- the solar exchanger (except for the 50 S version which is connected directly to a submerged exchanger),
- the solar pump with very high water column and a variable speed drive, and the secondary pump for versions with plate exchanger,
- the solar control system (accessible remotely via the DL3) for management of the self-draining solar circuit with "Variflow",
- pipework with safety valve and separation valves for easy connection of the unit to the tank and solar circuits.

The station operates exclusively with heat-transporting fluid (10-30 % mixture) on a solar collector circuit, allowing the fluid to be returned from the collectors to the tank of the transfer unit. The exchanger and the secondary circuit are designed to produce DHW or dead water. On versions with a plate exchanger, they are equipped with a flow meter system for measuring solar energy.

OTHER ACCESSORIES



8980Q0043

Expansion vessel

- 50 litres
- 80 litres
- 100 litres
- 200 litres
- 300 litres

PACKAGE REF

EG83 89807772

EG84 89807773

EG120 100008733

EG122 100008735

EG123 100008736



8980Q236

Heat transfer fluid

- High performance pre-mix type LS, 20 litres (-26°C)
- Pre-mix "BIO" (-30°C) low viscosity high resistance on the corrosion and freeze without BORAX type LR-25 (20 litres)
- Pre-mix type L 60/40 (20 litres)

EG100 89807792

ER316 100017611

EG101 89807794

DUO-TUBES

Double, pre-insulated pipes with UV protection and cable for sensor

- Duo-Flex in ribbed stainless steel Ø 16 x 15 m (with easyclik connection)
- Duo-Flex in ribbed stainless steel Ø 20 x 15 m (with easyclik connection)
- Duo-Flex in ribbed stainless steel Ø 20 x 20 m (with easyclik connection)

EG422 7648217

EG423 7648218

EG424 7648219

2 easy clic connection for DUO FLEX Ø 25 mm - 1"1/4 F

EG427 7648221

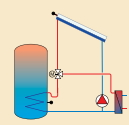
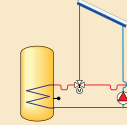


8980Q251

ACCESSORIES

FOR SOLAR SYSTEMS

HEATING BACK-UP SOLUTIONS WITH QUADRO AND OTHER CALORIFIERS

	Collector Area (m ²)	DH 200 SL		CH 250 SL		
		10 ≤	15 ≤	10 ≤	15 ≤	20 ≤
Calorifier BSL/BESLN from 300 to 500 (DHW)	Package	ER421/422 ER419/420	ER883	ER419	ER420	ER883
Storage tank PS 600 to 2000	Package	Swimming pool heat exchanger	Swimming pool heat exchanger	AJ59	AJ60	AJ61
+ a casing of your choice (see on product page PS)						
Solar station for systems:						
- pressurised	Package	SKP 7-8 ER655	SKS 13-15 ER665	SKS 13-15 ER665	SKS 13-15 ER665	SKS 13-15 ER665
- drainback transfert module DB 15-15S	Package	7797667	7797667	7797667	7797667	7797667
Control system SOL PLUS	Package	ER709	ER709	ER709	ER709	ER709
3-way valve	Package	EC164	EC164	EC164	EC164	EC164
QUADRO (tank with casing)	Package	EC67	EC66	EC67	EC66	EC66

PROD_F002/0A

10

SOLAR

SOLAR SYSTEMS

BUFFER TANKS FOR HEATING BACK-UP

PROJECT



RSB_Q0004A

PS 600 to 3000 HR/HS

Storage tanks from 550 to 3000 l

point

Storage solar and boiler volume up to 3000 litres



Storage tanks in very thick sheet with an exchanger in smooth piping in the bottom section welded into the tank for connection to the solar installation

- Thanks to the interior coating in black rustproof paint, these tanks can be used only for the production and storage of hot water for heating purposes
- The tank has multiple connection points for one or more boilers and heating circuits

Insulation available in 2 version:

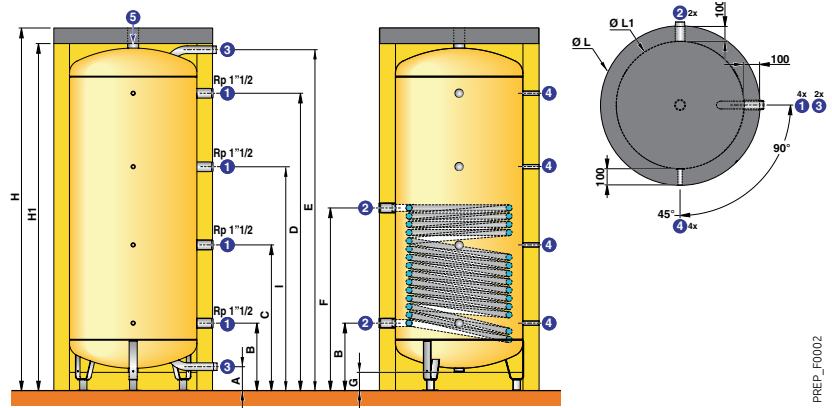
- **Rigid outer casing (HR)** in 100 mm thick polyester fibers with external skin in polystyrol.
- **Flexible outer casing (HS)** in 100 mm thick mineral wool with external skin in PVC, with MO fire classification.

• **Packaging:** 2 packages

MAIN DIMENSIONS (mm and inches)

- ① Inlet storage water
- ② Inlet/ outlet coil heat exchanger Rp1" 1/2
- ③ Outlet storage water
- ④ Connection for sensor tube 1/2"
- ⑤ Sensor (tube) Rp 1/2"
- ⑥ Outlet storage water / purge Rp 2"

PS 600 to 3000



PREP_F0002

PS...HR	Ø ① ②	Ø ③	H	H1	Ø L	Ø L1	A	B	C	D	E	F	G
600	R 1" 1/2	R 1" 1/2	2111	2011	830	630	150	420	852	1713	1985	981	128
800	R 1" 1/2	R 1" 1/2	1940	1840	990	790	150	420	790	1532	1802	981	115
1000	R 2"	R 1" 1/2	2253	2153	990	790	150	420	905	1845	2115	1134	115
1500	R 2"	R 1" 1/2	1985	1885	1300	1100	150	452	804	1497	1797	962	67
2000	R 2"	R 1" 1/2	2226	2126	1300	1100	150	452	881	1738	2040	1062	67
2500	R 2" 1/2	R 2"	2013	1913	1600	1400	185	480	790	1445	1740	990	17
3000	R 2" 1/2	R 2"	2175	2075	1600	1400	187	480	856	1607	1902	990	18

TECHNICAL SPECIFICATIONS

Max. operating pressure: - tank: 6 bar
- solar exchanger: 12 bar

Max. operating temperature: - tank: 95°C
- solar exchanger: 95°C

MODEL

	PS... HR/HS	600	800	1000	1500	2000	2500	3000
Energy efficiency class		C	C	C	C	C	-	-
Capacity	l	550	750	1000	1500	2000	2500	3000
Exchanger capacity	l	15.2	19.8	25.5	26.7	31.9	35.2	35.2
Exchanger surface/max. collector surface	m ²	2/10	2.6/12	3.3/16	3.5/15	4.2/18	4.6/20	4.6/20
Coefficient of heat losses	W/K	2.5/2.7	2.8/3.0	2.9/3.2	3.4/3.8	3.8/4.4	4.1/4.6	4.6/4.8
Net weight	kg	160	190	220	340	420	505	535

MODEL

	PS... HR/HS	600	800	1000	1500	2000	2500	3000
Tank	Package	AJ59	AJ60	AJ61	AJ62	AJ63	AJ64	AJ65
	Ref.	7650461	7650462	7650463	7650464	7650465	7650466	7650467
Rigid outer casing (B...HR)	Package	AJ87	AJ88	AJ89	AJ90	AJ91	AJ92	AJ93
	Ref.	7650489	7650490	7650491	7650492	7650493	7650494	7650495
Flexible outer casing (B...HS)	Package	AJ107	AJ108	AJ109	AJ110	AJ111	AJ112	AJ113
	Ref.	7650513	7650514	7650526	7650527	7650528	7650529	7650532

OPTIONS

ACCESSORIES

	PACKAGE	REF
Thermometer	AJ32	89757746

SOLAR SYSTEMS

BUFFER TANKS FOR HEATING BACK-UP

PROJECT



8962019A

PSB 600 to 3000 HR/HS

Buffer tanks from 550 to 300 l

point

Buffer tank for wood/solar combination



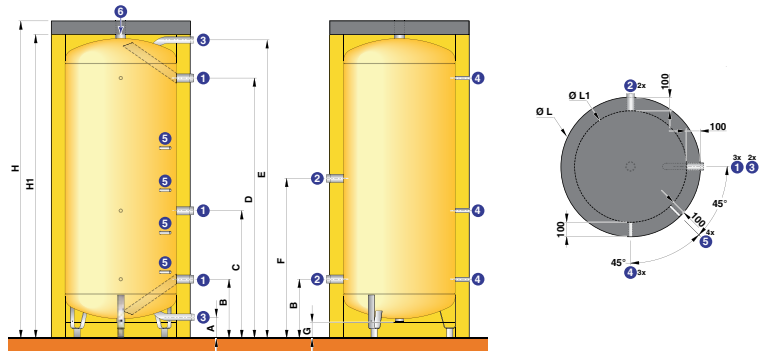
Storage tank in very thick sheet

- Thanks to the interior coating in black rustproof paint, these tanks can be used only for the production and storage of hot water for heating purposes
- The tanks have multiple connection points for one or more boilers and heating circuits
- Insulation available in 2 versions:
 - Rigid outer casing (HR) in 100 mm thick polyester fibers with external skin in polystyrol.
 - Flexible outer casing (HS) in 100 mm thick mineral wool with external skin in PVC, with M1 fire classification.

- Outside polystyrene coating
- Packaging: 2 packages

MAIN DIMENSIONS (mm and inches)

- ① ② ③ Inlet/Outlet DHW
 - ④ Connection for sensor tube 1/2"
 - ⑤ Sensor tube 1/2"
 - ⑥ Storage water outlet / purge Rp 2"
- R: Conical threading
Rp: Tapped connection



PREF_F0001

PSB...HR	Ø ① ②	Ø ③	H	H1	Ø L	Ø L1	A	B	C	D	E	F	G
600	R 1"1/2	R 1"1/2	2111	2011	830	630	150	420	852	1713	1985	981	128
800	R 1"1/2	R 1"1/2	1940	1840	990	790	150	420	790	1532	1802	981	115
1000	R 2"	R 1"1/2	2253	2153	990	790	150	420	905	1845	2115	1134	115
1500	R 2"	R 1"1/2	1985	1885	1300	1100	150	452	804	1497	1799	962	67
2000	R 2"	R 1"1/2	2226	2126	1300	1100	150	452	881	1738	2040	1062	67
2500	R 2"1/2	R 2"	2013	1913	1600	1400	185	480	790	1445	1740	990	17
3000	R 2"1/2	R 2"	2175	2075	1600	1400	187	480	856	1607	1902	990	18

TECHNICAL SPECIFICATIONS

Max. operating pressure: : Max. operating temperature:
- tank: 5 bar : - tank: 95°C

MODEL

	PSB... HR/HS	600	800	1000	1500
Energy efficiency class		C	C	C	C
Capacity	l	550	750	1000	1500
Coefficient of heat losses (casing HR/HS)	W/K	2.5/2.7	2.8/3.0	2.9/3.2	3.4/3.8
Shipping weight	kg	120	150	170	335

MODEL

	PSB... HR/HS	600	800	1000	1500	2000	2500	3000
Tank	Package	AJ52	AJ53	AJ54	AJ55	AJ56	AJ57	AJ58
	Ref.	7650454	7650455	7650456	7650457	7650458	7650459	7650460
Rigid casing (HR)	Package	AJ87	AJ88	AJ89	AJ90	AJ91	AJ92	AJ93
	Ref.	7650489	7650490	7650491	7650492	7650493	7650494	7650495
Flexible casing (HS)	Package	AJ107	AJ108	AJ109	AJ110	AJ111	AJ112	AJ113
	Ref.	7650513	7650514	7650526	7650527	7650528	7650529	7650532

OPTIONS

ACCESSORIES

	PACKAGE	REF.
Thermometer	AJ32	89757746



AIR CONDITIONING

11 AIR CONDITIONING

SELECTION GUIDE AIR CONDITIONING	p240
CLIM'UP MONOSPLIT	
Wall mounted Air Conditioner SMART	p242
CLIM'UP MULTISPLIT	
Outdoor unit: MUSE	p243
Indoor unit: Wall mounted UMS	p244
Console UCEM	p245

R32

R32 is the main alternative to F-Gas.
The advantage of this fluid is that it offers a GWP (Global Warming Potential) of just 675 CO₂ eqt.

- Zero impact on the ozone layer
- 5 - 10% more efficient than R410A
- Less fluid required for the same output (20 - 30% less fluid than R410A)
- A totally pure fluid which is therefore easier to recycle
- A GWP of just 675 CO₂ eqt

MANDATORY REGULATIONS

- Refer to the EN378 standard for installation and commissioning equipment which uses refrigerants.

FOR ALL FLUIDS

Operators must always be trained in alternative technologies and the applicable regulations

Prerequisite for installations containing HFCs:

- Compliance with F-GAS 517/2014
- Qualification certificate (company)
- Certificate of competence (operator)



+ efficiency
- pollution

SELECTION GUIDE CLIM'UP MONOSPLIT

SMART



Power range	2.7 to 6.7 kW
ERP data (Cooling/Heating)	A++ / A+
Design/finishing quality	+++
Easy to install	+++
Performance (Hot/Cold)	+++
Acoustic	+++
Connectivity	Option
Programming	Via remote control
Residential	+++
Commercial	+++
Tertiary /offices and shops	+++
Integrated condensate condensate pump	No
RT 2012 (Warm mode lock)	No
Pages	242
Options	246

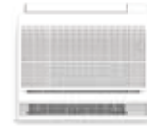
SELECTION GUIDE CLIM'UP MULTISPLIT



UMS



UCEM



Power range	2.05 to 6.9 kW	2.6 to 4.7 kW
ERP data (Cooling/Heating)	A++ / A+	A++ / A+
Design/finishing quality	+++	+++
Easy to install	+++	+++
Performance (Hot/Cold)	+++	+++
Acoustic	+++	+++
Connectivity	Option	Option
Programming	Via remote control	Via remote control
Residential	+++	+++
Commercial	+++	+++
Tertiary /offices and shops	+++	+++
Integrated condensate condensate pump	No	No
Pages	244	245
Options	246	



MUSE 40-2



MUSE 50-2



MUSE 60-3



MUSE 80-3



MUSE 100-4



MUSE 120-5



Number of connectable indoor units	2	2	3	3	4	5
Cooling power	4.1 kW	5.3 kW	6.2 kW	7.9 kW	10.5 kW	12 kW
ERP data (Cooling/Heating)	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Operating temperature limit in heating mode	-15°C /+24°C					
Operating temperature limit in cooling mode	-10°C /+52°C					
Easy to install	+++					
Acoustic	++++					
Pages	243					
Options	246					

AIR CONDITIONING

REVERSIBLE MONO-SPLIT AIR-TO-AIR HEAT PUMP

EASYLIFE

CLIM'UP

SMART 20, 25, 35, 50, 70, 2.7 - 6.7 kW

point
R32 fluid

Acoustic comfort: 20 dB[A]
Optimal comfort all year round -
Indoor unit compatible
for mono and multisplit



- Mono-split air-to-air heat pump for air conditioning
- Equipped with DC Inverter technology, and reversible mode, including an indoor unit (UMS) and an outdoor unit (MOSE),
- The outdoor unit is equipped with a ROTARY DC INVERTER compressor, a 4-way valve (for reversing heating/cooling mode), a modulating fan, using R32 refrigerant fluid
- The indoor unit is equipped with a variable-speed fan enabling air diffusion in 4 directions and up to 15 m. Its condensate and refrigeration connections can be located on the left- or right-hand side

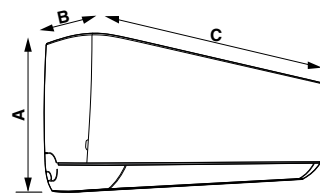
- It features 5 operating modes: Auto, Cooling, Heating, Dehumidifying, Ventilation; it also incorporates the following functions: Night, Self-clean, Eco, Turbo, Draught protection
- It can also be operated from a distance remotely using the programmable infra-red remote control (supplied as an option)
- Packaging: 2 packages

OPTIONS: see end of chapter

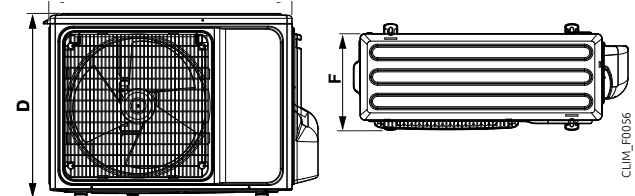
MAIN DIMENSIONS (mm and inches)

(mm)	A	B	C	D	E	F
SMART 20/25/35	292	201	792	546	723	290
SMART 50	316	224	940	545	806	315
SMART 70	330	232	1132	700	930	353

UMS INDOOR UNIT



MOSE OUTDOOR UNIT



TECHNICAL SPECIFICATIONS

- Temperature limitations (outside air):
- Cooling mode: -10 °C/+52 °C
- Heating mode: -15 °C/+24 °C

MODEL

	SMART	20	25	35	50	70
Output in cooling mode (min./max.)	kW	2.65 (0.6-3.1)	2.65 (0.6-3.1)	3.5 (0.8-4.1)	5.3 (1.3-5.7)	7.2 (1.8-7.4)
Output in heating mode (min./max.)	kW	2.7 (0.8-3.4)	2.7 (0.8-3.4)	3.8 (1.0-4.1)	5.3 (1.3-5.5)	7.2 (1.8-8.0)
Output in cooling mode	BTU/hr	9041.8(2047.2-10577.2)	9041.8(2047.2-10577.2)	11942(2729.6-13989.2)	18083.6(4435.6-19448.4)	24566.4(6141.6-25248.8)
Output in heating mode	BTU/hr	9212.4(2729.6-11600.8)	9212.4(2729.6-11600.8)	12965.6(3412-13989.2)	18083.6(4435.6-18766)	24566.4(6141.6-27296)
Electrical power consumption in cooling mode at nominal output	kW	0.78	0.78	1.10	1.65	2.195
Electrical power consumption in heating mode at nominal output	kW	0.72	0.72	1.02	1.50	1.96
Max. air flow (HS, MS, LS*) (indoor unit)	m ³ /h	600/480/395	600/480/395	600/480/395	850/800/688	1150/950/750
Max. air flow (outdoor unit)	m ³ /h	1800	1800	1800	2700	3200
SEER		6,5	6,5	6,1	6,8	6,53
Energy class in cooling mode		A++	A++	A++	A++	A++
SCOP		4	4	4	4	4,09
Energy class in heating mode		A+	A+	A+	A+	A+
Min./max. acoustic pressure of indoor unit	dB[A]	24 / 42	24 / 42	24 / 42	30 / 48	33 / 51
Acoustic power of indoor unit	dB[A]	53	53	54	59	63
Acoustic power of outdoor unit	dB[A]	61	61	62	62	66
Outdoor/indoor unit weight	kg	18.5 / 7.5	18.5 / 7.5	21 / 7.5	27 / 11	39 / 14
Refrigerant connections (Fluid - Gas)	inches	1/4" - 3/8"	1/4" - 3/8"	1/4" - 3/8"	1/4" - 1/2"	1/4" - 5/8"
Min./Max. length between indoor and outdoor units	m	3/20	3/20	3/20	3/25	3/25
Max. height difference between indoor and outdoor units	m	10	10	10	15	15
Max. preloaded piping length between indoor and outdoor units	m	7	7	7	7	7
Additional load of F32 refrigerant per additional meter	g	15	15	15	25	30
Nominal charge of R32 refrigerant fluid	kg	0.57	0.57	0.56	0.85	1.3
Voltage/Frequency values	V / Hz	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50
Nominal current in cooling mode	A	3.8	3.8	5.6	7.5	10
Maximum current	A	8.5	8.5	9.5	12	16
Max. power consumption	kW	1.6	1.6	1.9	2.4	3.4
Power cable cross-section	mm ²	3G1.5	3G1.5	3G1.5	3G1.5	3G2.5
Circuit breaker		C16A	C16A	C16A	C16A	C20A
Cross-section of cable connecting the indoor and outdoor units	mm ²	5G1.5	5G1.5	5G1.5	5G1.5	5G2.5

* High speed, middle speed, low speed

MODEL

	SMART	20	25	35	50	70
UMS indoor module	Ref	7802984	7802985	7802986	7802987	7802988
MOSE Outdoor module	Ref	7802979	7802980	7802981	7802982	7802983

AIR CONDITIONING

REVERSIBLE MULTI-SPLIT AIR-TO-AIR HEAT PUMP

EASYLIFE

CLIM'UP

MUSE outdoor unit, 4.1 - 12 kW

point

R32 fluid
Optimal comfort all year round
Big choice of external unit
Option to add up to 5 indoor units
on the same outdoor unit



MUSE outdoor units are equipped with a ROTARY DC INVERTER compressor, a 4-way valve for reversing heating/cooling mode, and a modulating fan. They are designed to be combined with 1,2,3,4 or 5 indoor units (UMS, UCEM) (the relevant specifications are given on the previous page and in the table of recommendations below).

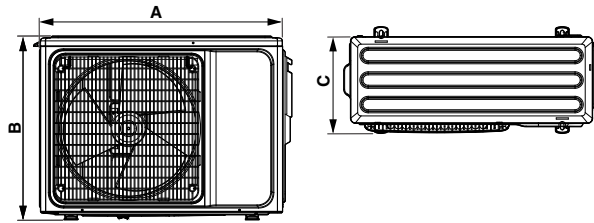
- Packaging: 1 package

OPTIONS AND PRECAUTIONS: see end of chapter

MAIN DIMENSIONS (mm and inches)

(mm)	A	B	C
MUSE 40-2	800	545	315
MUSE 50-2	800	545	315
MUSE 60-3	834	655	328
MUSE 80-3	834	655	328
MUSE 100-4	985	808	395
MUSE 120-5	985	808	395

MUSE OUTDOOR UNIT



TECHNICAL SPECIFICATIONS

Temperature limitations (Outside air):
Cooling mode: -10 °C/+52 °C
Heating mode: -15 °C/+24 °C

MODEL

	MUSE	40-2	50-2	60-3	80-3	100-4	120-5
Output in cooling mode (min./max.)	kW	4.1 (1.8-4.51)	5.3 (2.0-5.83)	6.2 (2.2-6.71)	7.9 (2.3-8.69)	10.5 (2.5-11.00)	12.00 (2.77-12.7)
Output in heating mode (min./max.)	kW	4.8 (2.05-5.28)	5.6 (2.21-6.16)	6.6 (2.39-7.26)	8.2 (2.45-9.02)	11.00 (2.67-11.20)	13.00 (2.96-12.80)
Output in cooling mode	BTU/hr	14000	18000	21200	27000	35800	41000
Output in heating mode	BTU/hr	16400	19100	22500	28000	37500	44400
Electrical power consumption in cooling mode at nominal output	kW	1.24	1.75	1.92	2.46	3.92	4.32
Electrical power consumption in heating mode at nominal output	kW	1.15	1.54	1.78	2.27	3.04	3.75
Max. air flow (outdoor unit)	m ³ /h	2300	2300	3100	3100	4000	4200
SEER		6.2	7.1	6.5	6.3	6.1	6.1
Energy class in cooling mode		A++	A++	A++	A++	A++	A++
SCOP		4.1	4.1	4.4	4.0	4.0	4.0
Energy class in heating mode		A+	A+	A+	A+	A+	A+
Acoustic pressure of outdoor unit	dB[A]	54	55	56	58	61	61
Acoustic power of outdoor unit	dB[A]	61	62	65	65	68	68
Outdoor unit weight	kg	34	36	44	46	74	75
Refrigerant connections (Fluid - Gas)	inches	1/4" - 3/8"	1/4" - 3/8"	1/4" - 3/8"	1/4" - 3/8"	1/4" - 3/8"	1/4" - 3/8"
Total max. length between indoor and outdoor units	m	40	40	60	60	80	80
Max. length between indoor and outdoor units	m	25	25	30	30	35	35
Max. height difference between indoor and outdoor units	m	15	15	15	15	15	15
Max. height difference between all indoor and outdoor units	m	10	10	10	10	10	10
Preloaded length	m	15	15	22.5	22.5	30	37.5
Additional load of F32 refrigerant per additional meter	g/m	20	20	20	20	20	20
Nominal charge of R32 refrigerant fluid	kg	0.92	0.95	1.1	1.05	2.3	2.3
Voltage/Frequency values	V/Hz	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50
Nominal current in cooling mode	A	5.4	7.6	8.3	10.7	18.7	20.6
Maximum current	A	10	11	13	16	22.5	24.5
Power cable cross-section	mm ²	3G1.5	3G1.5	3G1.5	3G2.5	3G4.0	3G4.0
Circuit breaker		C16A	C16A	C16A	C20A	C25A	C25A
Cross-section of cable connecting the indoor and outdoor units	mm ²	4G1.5	4G1.5	4G1.5	4G2.5	4G2.5	4G2.5

MODEL

	MUSE	40-2	50-2	60-3	80-3	100-4	120-5
Multi-split outdoor unit for air conditioning	Package	EH971	HK525	EH926	EH875	EH927	EH928
	Ref	7722650	7802989	7720006	7692782	7720007	7720008

AIR CONDITIONING

AIR CONDITIONER UNIT MULTISPLIT

CLIM'UP

UMS indoor wall mounted unit 2.2 - 5.3 kW

point

R32 fluid
Acoustic comfort: 20 dB[A]
Optimal comfort all year round
Indoor unit compatible
for mono and multisplit



The UMS indoor units are equipped with a variable speed fan and allow air diffusion in 4 directions and up to 15 m. Its refrigerant and condensate connections can be made on the right or left side.

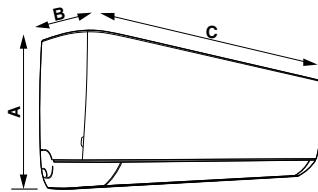
- They can operate in 5 modes: Auto, Cooling, heating, Dehumidification, Ventilation
- They also integrate the following functions: Night, Self-cleaning, Eco, Turbo, **Anti cold air flow**
- Delivered with a programmable infrared remote control
- Packaging: 1 package

OPTIONS AND PRECAUTIONS: see end of chapter

MAIN DIMENSIONS (mm and inches)

(mm)	A	B	C
SMART 20/25/35	292	201	792
SMART 50	316	224	940

UMS INDOOR WALL UNIT



TECHNICAL SPECIFICATIONS

MODEL

	UMS	20	25	35	50
Output in cooling mode	kW	2.05 (1.13-2.70)	2.05 (1.13-2.70)	3.52 (1.70-3.70)	5.27 (2.50-5.80)
Output in heating mode	kW	2.35 (0.98-2.50)	2.35 (0.98-2.50)	3.81 (2.03-4.42)	5.38 (2.25-5.80)
Output in cooling mode	BTU/hr ...	7000 (3855-9220) 9000 (4780-11260)	12000 (5800-12625)	17980 (8530-19790)	23542 (9895-24908)
Output in heating mode	BTU/hr ...	8000 (3340-8530) 10000 (4095-10240)	13000 (6930-15080)	18350 (7680-19790)	24054 (7165~27296)
Electrical power consumption in cooling mode at nominal output	kW	0.67	0.78	1.10	1.65
Electrical power consumption in heating mode at nominal output	kW	0.64	0.72	1.02	1.50
Air flow (High speed, middle speed, low speed)	m ³ /h	560/480/370	600/480/370	600/480/370	850/800/680
Min./max. acoustic pressure	dB[A]	20/42	20/42	20/46	20/48
Acoustic power	dB[A]	54	54	54	58
Refrigerant connections (Fluid - Gas)	inches	1/4" - 3/8"	1/4" - 3/8"	1/4" - 3/8"	1/4" - 1/2"
Voltage/Frequency values	V/Hz	220-240/50	220-240/50	220-240/50	220-240/50
Net weight	kg	8	7.5	7.5	11

MODEL

	UMS	20	25	35	50
UMS INDOOR WALL UNIT	Package	HK517	HK518	HK519	HK520
	Ref	7802984	7802985	7802986	7802987

AIR CONDITIONING

AIR CONDITIONER UNIT MULTISPLIT

point

R32 fluid
Optimal comfort all year round
Ideal for replacing existing radiators
Energy savings

CLIM'UP

UCEM indoor unit console 2.6 - 4.7 kW



The UCEM indoor units are fitted with a variable speed fan allowing optimized air distribution in heating or cooling mode. Their installation can be done on the floor or in ceiling.

- They can operate in 5 modes: Auto, Cooling, heating, Dehumidification, Ventilation
- They also integrate the following functions: Night, Self-cleaning, Eco, Turbo, **Anti cold air flow**
- Delivered with a programmable infrared remote control
- Packaging: 1 package

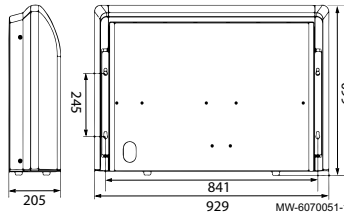


CLIM_00010

OPTIONS AND PRECAUTIONS: see end of chapter

MAIN DIMENSIONS (mm and inches)

UCEM CONSOLE INDOOR UNIT



CLIM_FF016

TECHNICAL SPECIFICATIONS

MODEL

	UCEM	25	35	50
Output in cooling mode (min./max.)	kW	2.60 (1.50-3.55)	3.50 (1.70-3.70)	4.70 (2.50-4.80)
Output in heating mode (min./max.)	kW	2.80 (1.50-3.55)	3.50 (1.50-3.70)	5.0 (2.50-5.6)
Output in cooling mode	Btu/h (min/max)	8872 (5120-12115)	12285 (5800-12625)	16036 (8530-16378)
Output in heating mode	Btu/h (min/max)	9560 (5120-12115)	12625 (5120-12625)	17060 (8530-19107)
Electrical power consumption in cooling mode at nominal output	W	40	40	55
Electrical power consumption in heating mode at nominal output	W	40	40	55
Air flow (High speed, middle speed, low speed)	m ³ /h	700/225/600	700/225/600	700/225/600
Min./max. acoustic pressure of indoor unit	dB[A]	42/39/36	42/39/36	44/40/37
Acoustic power of indoor unit	dB[A]	52	52	54
Refrigerant connections (Fluid - Gas)	inches	1/4" - 3/8"	1/4" - 3/8"	1/4" - 3/8"
Voltage/Frequency values	V / Hz	220-240 / 50	220-240 / 50	220-240 / 50
Indoor unit weight	kg	15	15	15

MODEL

	UCEM	25	35	50
UCEM console indoor unit	Ref	7836596	7836597	7836598

RECOMMENDATIONS AND OPTIONS

FOR MONOSPLIT AND MULTISPLIT AIR CONDITIONER UNIT

RECOMMENDATIONS

UNITS OUTDOOR POSSIBLE COMBINATIONS MUSE, INDOOR UNITS UMS OR UCEM

MUSE 40-2 possible combinations

	1 indoor unit	2 indoor units
1 to 2 indoor units (See previous pages)	20	20+20
	25	20+25
	35	25+25

MUSE 50-2 possible combinations

	1 indoor unit	2 indoor units
1 to 2 indoor units (See previous pages)	-	20+20
	25	20+25
	35	25+25
	50	25+35
		20+35

MUSE 60-3 possible combinations

	1 indoor unit	2 indoor units		3 indoor units	
1 to 3 indoor units (See previous pages)	20	20+20	25+25	20+20+20	25+25+25
	25	20+25	25+35	20+20+25	
	35	20+35	25+50	20+35+35	
	50	20+50	35+35	20+35+50	
			35+50		

MUSE 80-3 possible combinations

	1 indoor unit	2 indoor units		3 indoor units	
1 to 3 indoor units (See previous pages)	20	20+20		20+20+20	
	25	20+25	35+35	20+20+25	20+35+35
	35	20+35	35+50	20+20+35	25+25+25
	50	20+50		20+20+50	25+25+35
		25+25		20+25+25	25+35+35
		25+35		20+25+35	35+35+35

MUSE 100-4 possible combinations

	1 indoor unit	2 indoor units		3 indoor units			4 indoor units		
1 to 4 indoor units (See previous pages)	20	20+20	50+50	20+20+20	20+35+35	25+35+50	20+20+20+20	20+20+35+35	20+35+35+35
	25	20+25		20+20+25	20+35+50	25+50+50	20+20+20+25	20+20+35+50	25+25+25+25
	35	25+25		20+20+35	20+50+50	35+35+35	20+20+20+35	20+25+25+25	25+25+25+35
	50	25+35		20+20+50	25+25+25	35+35+50	20+20+20+50	20+25+25+35	25+25+25+50
		25+50		20+25+25	25+25+35		20+20+25+25	20+25+25+50	25+25+35+35
		35+35		20+25+35	25+25+50		20+20+25+35	20+25+35+35	25+35+35+35
		35+50		20+25+50	25+35+35		20+20+25+50	20+25+35+50	

MUSE 120-5 possible combinations

	1 indoor unit	2 indoor units		3 indoor units		4 indoor units		5 indoor units	
1 to 5 indoor units (See previous pages)	20	20+20	20+20+20	25+25+25	20+20+20+20	20+25+25+35	20+20+20+20+20	20+20+25+25+35	25+25+25+25+25
	25	20+25	20+20+25	25+25+35	20+20+20+25	20+25+25+50	20+20+20+20+25	20+20+25+25+50	25+25+25+25+35
	35	25+25	20+20+35	25+25+50	20+20+20+35	20+25+35+35	20+20+20+20+35	20+20+25+35+35	25+25+25+25+50
	50	25+35	20+20+50	25+35+35	20+20+20+50	20+25+35+50	20+20+20+20+50	20+20+25+35+50	25+25+25+35+35
		25+50	20+25+25	25+35+50	20+20+25+25	20+35+35+35	20+20+20+25+25	20+20+35+35+35	25+25+35+35+35
		35+35	20+25+35	25+50+50	20+20+25+35	25+25+25+25	20+20+20+25+35	20+25+25+25+25	
		35+50	20+25+50	35+35+35	20+20+25+50	25+25+25+35	20+20+20+25+50	20+25+25+25+35	
		50+50	20+35+35	35+35+50	20+20+35+35	25+25+25+50	20+20+20+35+35	20+25+25+25+50	
			20+35+50		20+20+35+50	25+25+35+35	20+20+20+35+50	20+25+25+35+35	
			20+50+50		20+25+25+25	25+35+35+35	20+20+25+25+25	20+25+35+35+35	

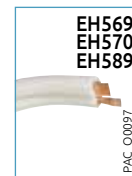
OPTIONS

CONTROLS

	PACKAGE	REF
Room thermostat TADO Smart AC control	V3+	7843044

ACCESSORIES

	PACKAGE	REF
Wall mounting support + anti-vibration studs	EH95	100011222
Floor support kit	EH112	100012533
600 mm rubber floor support kit	EH879	7694974
Refrigerant connection:		
• 1/4"- 3/8", length 5 m	EH569	7627741
• 1/4"- 3/8", length 10 m	EH570	7627742
• 1/4"- 3/8", length 20 m	EH589	7629725
• PE 1/2"- 1/4", length 10 m	EH142	100015476
• PE 1/4"- 5/8", length 20 m	EH890	7697954





EQUIPMENTS

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15 BOILER ROOM EQUIPMENT

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OUR RECOMMENDATIONS

- With Ecolabelling, the influence of the intelligent control systems integrated into our heating generators is factored directly into the final efficiency calculation for a heating system.
- The design of our heating control systems helps to enhance the heating performance of an installation:
 - Visually thanks to the systems' calculation;
 - As well as in practice with efficiency ratios between 1 and 5% higher, depending on the configuration and particularly as the result of the outside or room temperature sensors put in place



SMARTTC_Q007

CONTROLLER CLASS

- Since 1 February 2017, a boiler must be equipped with a class IV, V, VI, VII or VIII controller, as defined in (EU) regulation no. 8013/2013 of the Eco Design directive, to ensure its eligibility with the French Energy Saving Certificate.

Boiler type		Increase the heating performance as a function of					
		Outdoor sensor	Room thermostat on/off	Modulating room thermostat	Connected room thermostat SMART TC®		
Performance heating		 HX94 FM46 AD225 AD346	 AD337 AD338 AD140	 AD303 AD304 AD301	 AD324	 AD311	 AD341
PROJECT	Evodens Pro AMC 45/65/ 90/115 DIEMATIC Evolution	 AMC_Q0013 Delivered with outdoor sensor: + 2 %	+ 2 % CLASS IV	—	+ 4 % CLASS VI	—	+ 4 % CLASS VI
	Elidens C140 45/65 DIEMATIC Evolution	 C140_Q0002 Delivered with outdoor sensor: + 2 %	+ 2 % CLASS IV	—	+ 4 % CLASS VI	—	+ 4 % CLASS VI
	Modulens O Pro PFC 45/60 DIEMATIC Evolution	 AFC_Q0033 Delivered with outdoor sensor: + 2 %	+ 2 % CLASS IV	—	+ 4 % CLASS VI	—	+ 4 % CLASS VI

OUR RECOMMENDATIONS

Boiler/ Heat pump type

		Performance heating	Increase the heating performance as a function of					Remote control with room sensor		
			Outdoor sensor	Room thermostat on/off	Modulating room thermostat	Connected room thermostat SMART TC®		simplified	interactive CDI/CDR D. iSystem	
			HX94 FM46 AD225 AD346	AD337 AD338 AD140	AD303 AD304 AD301	AD324	AD311	AD341	FM52	AD284 AD285
EASYLIFE	MPX*	—	+ 2 % 	+ 2 % 	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	—	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	—	—
	Naneo S (EMC-S and PMC-S)		+ 2 % 	+ 2 % 	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	—	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	—	—
	Vivadens BIC		+ 2 % 	+ 2 % 	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	—	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	—	—
	Twineo		+ 2 % 	+ 2 % 	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	—	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	Without outdoor sensor: + 3 % CLASS V With outdoor sensor: + 4 % CLASS VI	—	—
	ALESIO S R32	Delivered with outdoor sensor:	+ 2 % 	+ 2 % 	—	With outdoor sensor: + 4 % CLASS VI	—	With outdoor sensor: + 4 % CLASS VI	—	—
	ALEZIO S V200 R32	+ 2 % 	+ 2 % 	—	With outdoor sensor: + 4 % CLASS VI	—	With outdoor sensor: + 4 % CLASS VI	—	—	—
	Strateo R32	Delivered with outdoor sensor:	+ 2 % 	+ 2 % 	—	With outdoor sensor: + 4 % CLASS VI	—	With outdoor sensor: + 4 % CLASS VI	—	—
	CFU C... Condens	Delivered with outdoor sensor:	+ 1.5 % 	+ 2 % 	+ 3.5 % CLASS VII	+ 3.5 % CLASS VII	—	+ 3.5 % CLASS VII	—	—
	CF/CFU EcoNox		+ 1.5 % 	+ 2 % 	Without outdoor sensor: + 2 % CLASS IV With outdoor sensor: + 3.5 % CLASS VII	Without outdoor sensor: + 2 % CLASS IV With outdoor sensor: + 3.5 % CLASS VII	—	Without outdoor sensor: + 2 % CLASS IV With outdoor sensor: + 3.5 % CLASS VII	—	—
	ADVANCE	HPI-S	Delivered with outdoor sensor:	+ 2 % 	+ 2 % 	—	With outdoor sensor: + 4 % CLASS VI	—	With outdoor sensor: + 4 % CLASS VI	—
HPI-M		+ 2 % 	+ 2 % 	—	With outdoor sensor: + 4 % CLASS VI	—	With outdoor sensor: + 4 % CLASS VI	—	—	
Evodens		Delivered with outdoor sensor:	+ 2 % 	+ 2 % 	—	+ 4 % CLASS VI	—	+ 4 % CLASS VI	—	—
Modulens G®		Delivered with outdoor sensor:	+ 2 % 	—	—	—	—	With outdoor sensor: + 4 % CLASS VI	—	—
Modulens O®		Delivered with outdoor sensor:	+ 2 % 	—	—	—	—	With outdoor sensor: + 4 % CLASS VI	—	—
GSHP		Delivered with outdoor sensor:	+ 1.5 % 	—	—	—	—	With outdoor sensor: + 4 % CLASS VI	—	—

* MPX is not compatible with room thermostat AD303

EQUIPMENT - CONNECTED SOLUTIONS

SMART TC° CONNECTED ROOM THERMOSTAT SMART TC° AND SMART TC° RF (WIRED AND WIRELESS)



- The SMART TC° and SMART TC° RF connected room thermostat are designed to be connected, in wired and wireless versions :
 - in OpenTherm configuration (interface supplied with the thermostat) on our Vivadens BIC and Twineo,
 - in ON/OFF (interface delivered with the thermostat) on our Alezio G Hybrid, Zena and Zena Plus boilers.
- - in R-BUS native configuration on Evodens, Alezio S, Alezio S V200, Strateo, HPI S , HPI M, CFU C...Condens or EcoNox, Modulens O Pro, Naneo S.

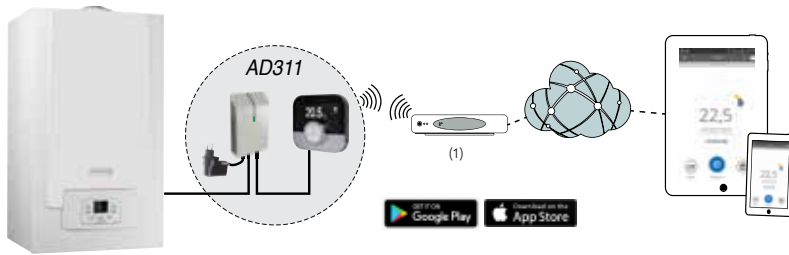
	PACKAGE	REF.
SMART TC° "OT" connected room thermostat for On/Off or Opentherm (wired) connection	AD311	7649289
SMART TC° native connected room thermostat (wired)	AD324	7691375
Connected thermostat/room sensor wireless SMART TC° RF for ON/OFF, OpenTherm or Native communication, delivered with its radio and WiFi communication gateway	AD341	7691377
Connected thermostat/room sensor wireless for 2nd circuit heating SMART TC° RF in Native (connects to the communication gateway of the AD341)	AD342	7765144
Outdoor sensor only in combination with the Smart TC RF communication gateway (AD341) (wireless)	AD346	7776874

PRINCIPLE OF INSTALLATION



- The SMART TC° application is available free of charge in the Playstore and Appstore and is compatible with all smartphones and tablets with Android and IOS (Apple) operating systems (not compatible with Windows 10)

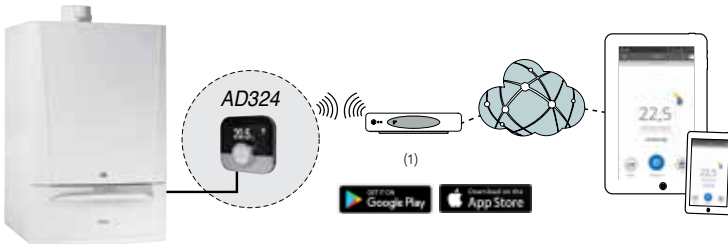
- With Vivadens BIC, Twineo and MPX



(1) If the SMART TC° can operate as a classic remote control, it is recommended to connect it to the internet to get the the latest updates

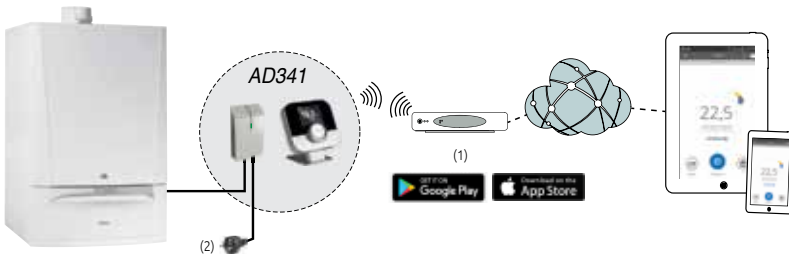
MPX_F0033

- With Inidens, Evodens AMC, Evodens Pro AMC, Naneo EMC-S/PMC-S, Elidens C140, CFU C...Condens, CF/CFU Econox, Modulens O Pro, ALEZIO S R32, Alezio S V200, ALEZIO S V200 R32, Strateo, HPI-M, HPI-S



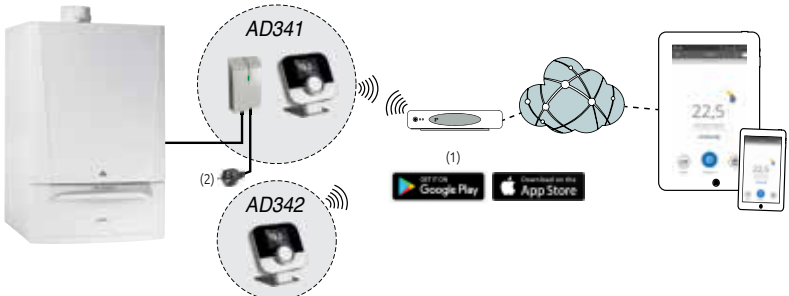
(1) If the SMART TC° can operate as a classic remote control, it is recommended to connect it to the internet to get the the latest updates

AMC_F0008



(1) If the SMART TC° can operate as a classic remote control, it is recommended to connect it to the internet to get the the latest updates
 (2) The interface of the wireless model is delivered without a plug.

AMC_F0036



(1) If the SMART TC° can operate as a classic remote control, it is recommended to connect it to the internet to get the the latest updates
 (2) The interface of the wireless model is delivered without a plug.

AMC_F0037

EQUIPMENT - BOILER ROOM

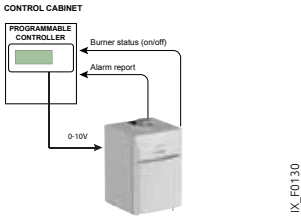


REC_Q0004

COMMUNICATION IN COLLECTIVE BOILER ROOMS

- In order to control energy consumption, which is extremely important for collective boiler room specifications, De Dietrich offers a large range of communication methods with its different products.
- These different communication methods are adapted to the different needs of machines on the market.

COMMUNICATION 0-10V



IX-F0130

- One of the first levels of the boiler room controlled by Centralised Technical Management is the management of the boiler via 0-10 V signal.
- A machine sends the heating set point to the boiler via a 0-10 V signal that is proportional to the set point of the boiler in terms of power and temperature. Generally this type of machine can also receive alarm reports and burner on/off information.

MODBUS AND BACNET GTW COMMUNICATION GATEWAYS



AD325

REC_Q0001



AD332

REC_Q0003



7756023

MC_202302_162299T

- Many programmable boiler room machine networks use the Modbus as communication protocol for Centralised Technical Management.
- Despite being a non-proprietary protocol, the Modbus has parameters that may differ from one application to another.
- Therefore our communication gateways that transform our proprietary buses into standard ModBus RTU RS485 have adjustable parameters such as speed, parity and stop bit.
- The AD325 communication gateway is delivered without the bus cable for connection to the boiler.

	PACKAGE	REF.
Communication gateway GTW26 DIEMATIC iSystem/m3 – Modbus	AD325	7714175
Communication gateway GTW08 L-BUS-ModBus	AD332	7721982
Communication gateway GTW21 L-BUS-BACnet		7756023

SELECTION GUIDE

boiler		0-10 v communication mode			Modbus RTU RS485 communication mode	BACnet
		0-10 V	Alarm report	Burner status information		
INNOVENS Pro MCA160 EVODENS Pro MODULENS O Pro ELIDENS C140	Diematic Evolution	Available without option	Available without option	Available without option	GTW08- Package AD332	GTW 21 REF: 7756023
GT 220	Diematic 3	Available without option	Not compatible	Not compatible	Not compatible	Not compatible
C 230 EVO, C 340/640	Diematic Evolution	Available without option	Available without option	Not compatible	GTW08 (Package AD332)	GTW 21 REF: 7756023
GT 330 GT 430 GT 530	Diematic m3	Available without option	Available without option	Not compatible	GTW26 (Package AD325)	Not compatible
EVODENS Pro	IniControl 2	Available without option	Available without option	Available without option	GTW08 (Package AD332)	GTW 21 REF: 7756023

EQUIPMENT - CONTROL

ROOM THERMOSTATS

ON/OFF ROOM THERMOSTAT



AD337

TH_Q0001

AD338

TH_Q0002

Programmable room thermostat

This thermostat controls the heating according to several operating modes:
AUTOMATIC: according to the hourly programming, the setpoint temperature automatically changes from Comfort to Economy and vice versa.
 It is also possible to remain in Permanent Comfort, Permanent Reduced or Permanent Frost Protection.

ABSENCE: this mode allows you to set a permanent temperature between 5 and 15°.

MANUAL: this mode allows you to switch from Comfort to Economy (or vice versa) until the next program change.

STOP: this mode allows you to stop the heating demand in summer for example.

Wired programmable room thermostat (battery powered)

AD337 **7768817**

Wireless programmable room thermostat (battery powered)

AD338 **7768818**



AD140

8801Q003

Non-programmable room thermostat

This room thermostat is used to regulate the room temperature between 6 and 30°C by activating the burner.

AD140 **88017859**

MODULATING ROOM THERMOSTAT



AD304

isense_Q0003

AD303

isense_Q0004



AD301

NANEO_Q0043A

PACKAGE REF.

Programmable room thermostat modulating "OpenTherm"

This thermostat handles the control and programming of the heating and of DHW. They include adjustment parameters for the different boilers: heating curve, maxi temperature boiler, fan speed...

The control adapts the power output of the boiler to the needs. 3 modes of operating are possible:

- **AUTOMATIC:** according the weekly programming used: for each programmed period, we can indicate the setpoint temperature.
- **PERMANENT:** maintains the setpoint temperature chosen for the day, night or antifrost.
- **VACATION:** intended for absences of long duration. Allows to bring in the dates of beginning and end of the vacation as well as the desired temperature.

For operation according to the outside temperature, an outside sensor (package AD225 or FM46) can be added.

AD304 **7609763**

(wired)

or

AD303 **7609762**

(wireless)

"OpenTherm" modulating remote control with room temperature sensor, not programmable

Thanks to its room temperature sensor, this remote control manages the temperature in a room chosen as the reference, adapting the boiler output to get the set point temperature input by the user. It also handles control of the DHW temperature. It incorporates setting parameters for the boilers concerned: temperature display and settings such as DHW temp., max. heating temp., etc., metering functions (number of start-ups, number of hours' running of the pump, DHW or total, etc.), an "error code" display, and so on...

AD301 **7612097**

OPERATING PRINCIPLES OF THE "OPENTHERM" REMOTE CONTROLS

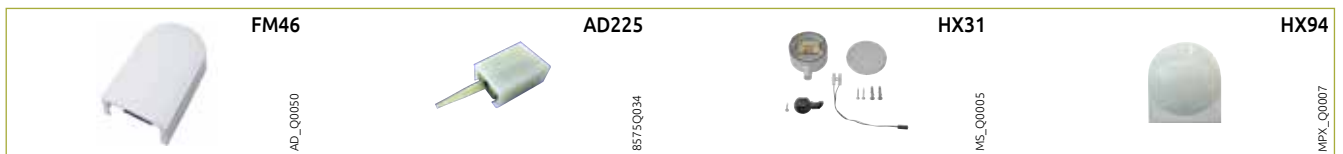
OpenTherm remote controls are independent controllers. They have their own heating curves and time programs.

An OpenTherm remote control connected to a generator sets the temperature of the heating circuit according to its heating curve, the setpoint and the outdoor temperature.

It also sets these time programs. The boiler's time programs are then inactive.

NOTE: with an AD301 there is no possibility of a time program, the boiler time programs become inactive.

OUTDOOR SENSORS THAT CAN BE ASSOCIATED WITH ROOM THERMOSTATS



FM46

AD_Q0050

AD225

8575Q034

HX31

MS_Q0005

HX94

MPX_Q0007

PACKAGE REF.

Outdoor sensor

- For Vivadens BIC
- For Twineo, EMC-S, Naneo-S, Inidens, CF/CFU Econox/CFU C...Condens (delivered as standard with CFU C...Condens)
- for MPX
- for Zena/Zena Plus

AD225 **100005660**

FM46 **85757741**

HX94 **7670186**

HX31 **100016414**

The outdoor sensor can be used alone or in combination with room thermostat.

EQUIPMENT - CONTROL

E-PILOT CONTROL PANEL

E-PILOT



CF_Q00013

This interface has been designed to facilitate your navigation, access and understanding of information. The E-Pilot allows you to easily manage your heating. The E-Pilot control panel equips the CF/CFU Econox and CFU C...Condens boilers - and enables the management (with programming) of a direct circuit, a circuit with a 3-way valve and hot water production. E-Pilot is equipped with a transparent backlit screen that provides quick access to temperature setpoints.

- For CF/CFU Econox and CFU C...Condens boilers: The control of 1 or 2 circuits with a mixing valve is possible by installing 1 or 2 "extension mixer boards" (option). The boiler is controlled by the outside sensor via the heating curve.

- To monitor the installation, it is possible to read the error history and the operating hours counter.
- Switching from heating to cooling mode takes place automatically depending on the outside temperature. Simplify your life with the integrated functions of the user interface such as child safety, time programs, vacation function and error messages, which are displayed directly on the start screen.
- Thanks to the thermostat connected to Smart TC °, you can also control your heating remotely in 2 different zones and independently of each other.

OPTIONS FOR E-PILOT CONTROL PANEL



MY440

EF_Q00027



85180022



AD_Q00050



AD_Q00050

PACKAGE REF.

PCB + sensor for 1 mixing valve (lg. 2.5m) for CF/CFU Econox and CFU C...Condens MY440 7628142

It allows a mixing valve with an electromechanical or electrothermal motor to be controlled. The PCB is inserted in the E-Pilot panel and is connected using plug-in connectors.

DHW sensor (lg. 5 m) AD212 10000030
This is used for controlling the DHW temperature as a priority and programming of domestic hot water production by a storage tank.

Outdoor sensor (for CF/CFU Econox) FM46 85757741
Allows the control of circuits by measuring the outside temperature.

Outdoor sensor (wireless) AD346 7776874
Compatible only with the Smart TC RF communication gateway (AD341).

EQUIPMENT - CONTROL

DIEMATIC EVOLUTION CONTROL PANEL

DIEMATIC EVOLUTION
















The virtual brain of the boiler, piloted by a micro-processor, a DIEMATIC EVOLUTION® control panel is factory fitted with a programmable control unit that activates the generator according to the outside temperature. As it is preprogrammed, it does not require any preliminary setting.

- Extremely easy to use, DIEMATIC EVOLUTION® is used to easily modify temperatures, programs and various other parameters at any time.
- Very user-friendly thanks to its display unit, it interfaces clearly with the user – in several languages – and pilots any type of installation, from the simplest

to the most sophisticated. With a particularly well integrated design, DIEMATIC EVOLUTION® control panels give the appliance on which they are mounted a very high class aesthetic.

- The homepage allows the installation to be configured to operate immediately.
- Intuitive access to all settings using a single rotary and confirmation button:
 - Colour screen with clear text. Explanation for each parameter,
 - Graphic and dynamic heating curve,
 - Diagnostic help via clear text alert messages.

OPTIONS FOR DIEMATIC EVOLUTION CONTROL PANEL

		PACKAGE	REF.
	8518Q002		
DHW sensor (lg. 5 m) This is used for controlling the DHW temperature as a priority and programming of domestic hot water production by a storage tank.		AD212	10000030
	GT220_Q0002		
Sensor for mixing valve (length 2.5m) 1 or 2 sensors are required to connect the first and second circuit with mixing valves on a boiler fitted with a Diematic Evolution control.		AD199	88017017
	MCA_Q0013		
PCB + sensor for 1 mixing valve (length 2.5m) This is used to control a mixing valve with an electromechanical or electrothermal motor. The PCB is inserted into the Diematic Evolution panel connected by pin connections. Diematic Evolution can receive 1 "PCB + sensor" option, enabling it to control 1 additional mixing valve.		AD249	100013304
	MCA_Q0012		
Sensor for storage tank (length 5m) Includes 1 sensor for managing a storage tank or a cascade with a boiler fitted with a Diematic Evolution panel (boiler or a heat pump or a VM Diematic Evolution).		AD250	100013305
	AD308 AD309 AD310		
S-Bus cable (with terminations) Used to connect boilers in cascade installations			
• lg 1,5 m		AD308	7663618
• lg 12 m		AD309	7663561
• lg 20 m		AD310	7663619
	AD321		
S-BUS plug		AD321	7688305
	FM46		
Outdoor sensor: Allows the control of circuits by measuring the outside temperature. (Originally supplied with CFU C...Condens, MCA 160, Evodens, Evodens PRO, Elidens C 140, Modulens G/O and heat pumps)		FM46	85757741
	AD337 AD338		
Programmable room thermostat This thermostat controls the heating according to several operating modes: • AUTOMATIC: according to the hourly programming, the setpoint temperature automatically changes from Comfort to Economy and vice versa. It is also possible to remain in Permanent Comfort, Permanent Reduced or Permanent Frost Protection. • ABSENCE: this mode allows you to set a permanent temperature between 5 and 15°. • MANUAL: this mode allows you to switch from Comfort to Economy (or vice versa) until the next program change. • STOP: this mode allows you to stop the heating demand in summer for example.		AD337 (wired) or AD338 (wireless)	7768817 7768818
	AD140		
Non-programmable room thermostat (wired) This room thermostat is used to regulate the room temperature between 6 and 30°C by activating the burner.		AD140	88017859
	AD324		
SMART TC° connected room thermostat (wired R-BUS) The SMART TC° connected room thermostat is designed to be connected via an R-BUS cable. It enables remote control of the heating and domestic hot water via a free application easy for the user to learn, with the option of providing a professional with access to their installation.		AD324	7691375
	AD341		
Connected thermostat/room sensor wireless SMART TC° RF (wireless) For ON/OFF, OpenTherm or Native communication.		AD341	7691377
	AD342		
Connected thermostat/room sensor SMART TC° RF (wireless) For 2 nd circuit.		AD342	7765144
	AD346		
Outdoor sensor (wireless) Only in combination with the Smart TC RF communication gateway (AD341).		AD346	7776874

EQUIPMENT - CONTROL

DIEMATIC ISYSTEM CONTROL PANEL

DIEMATIC ISYSTEM



C330ECC_Q0030

- The virtual brain of the boiler, piloted by a microprocessor, a DIEMATIC system® control panel is factory fitted with a programmable control unit that activates the burner according to the outside temperature. As it is preprogrammed, it does not require any preliminary setting.
- Extremely easy to use, DIEMATIC system® is used to easily modify temperatures, programs and various other parameters at any time.
- Very user-friendly thanks to its display unit, it interfaces clearly with the user – in several languages – and pilots any type of installation, from the simplest to the most sophisticated. With a particularly well integrated design, DIEMATIC system® control panels give the boilers a very high class aesthetic.
- Direct, intuitive access to all settings:
 - Large LCD screen with multi-line text display (e.g. clear explanation of the parameters being set), display of the heating gradient in graph form, troubleshooting thanks to the display of the temperatures curves and a history of the most recent errors in context
 - Keys to select operating modes, temperatures, access programs and setting parameters, along with a straightforward rotary button for adjusting or confirming the values set and scrolling through the menus.

OPTIONS FOR DIEMATIC ISYSTEM CONTROL PANEL



8518Q002



GT220_Q0002



MCA_Q0013



CALENTA_Q0005

8666Q172A



8575Q037



8227Q0020



8801Q022



8199Q063

	PACKAGE	REF.
DHW sensor (lg. 5 m) This is used for controlling the DHW temperature as a priority and programming of domestic hot water production by a storage tank.	AD212	10000030
Sensor for mixing valve (length 2.5m) This sensor is required to connect the first circuit with mixing valve on a boiler fitted with a DIEMATIC iSystem control.	AD199	88017017
PCB + sensor for 1 mixing valve (length 2.5m) This is used to control a mixing valve with an electromechanical or electrothermal motor. The PCB is inserted into the DIEMATIC iSystem panel and is connected by pin connections. DIEMATIC iSystem can receive 1 "board + sensor" option, enabling it to control 1 additional mixing valve.	AD249	100013304
CDI D.iSystem interactive remote control CDR D.iSystem interactive "radio" remote control (without radio transmitter) Boiler radio module (radio transmitter)	AD285	100018924
These are used to override all instructions from the DIEMATIC iSystem control panel from the room in which they are installed. In addition, they enable the self-adaptability of the heating curve for the circuit concerned (one CDI D.iSystem or CDR D.iSystem per circuit). In the case of the CDR D.iSystem, the data are transmitted by radio waves from the place where the CDR D.iSystem is installed to the transmitter/receiver box (package AD252) placed close to the boiler.	AD284	100018923
	AD252	100013307
Simplified remote control with room sensor This is used from the room in which it is installed to override certain instructions from the DIEMATIC iSystem panel: <ul style="list-style-type: none"> • room temperature program and instruction override. It is also used to enable the self-adaptability of the heating curve for the circuit concerned (1 remote control per circuit). 	FM52	85757747
BUS connection cable (length 12 m) The BUS cable is used to make the connection between 2 boilers fitted with the DIEMATIC iSystem control panel in a cascade installation, as well as the connection of a DIEMATIC VM iSystem control unit or a telemonitoring network transmitter.	AD134	88017851
Inter module connecting cable (length 1.5m) It allows the interconnection of two VM DIEMATIC iSystem wall-hung controllers	AD124	88017836
Connecting cable (length 40m) This is intended to replace either the 12m or the 1 m cable when these turn out to be too short.	DB119	81997720

EQUIPMENT - CONTROL

DIEMATIC ISYSTEM CONTROL PANEL

OPTIONS FOR DIEMATIC ISYSTEM CONTROL PANEL

		PACKAGE	REF.
<p>MCA_Q0012</p>	<p>Sensor for storage tank (length 5m) Includes 1 sensor for managing a storage tank with a boiler fitted with a DIEMATIC iSystem control panel.</p>	AD250	100013305
<p>8227Q0022</p>	<p>BUS cable extension This accessory is used to make the connection between 2 BUS cables if the 2 boilers to be connected are too far from each other.</p>	AD139	88017858
<p>AD251 AD_Q0050</p> <p>AD252 8666Q172A</p>	<p>Outdoor sensor radio Boiler radio module (radio transmitter) The radio outside temperature sensor can be delivered as optional equipment for systems in which the installation of the wire connection outside temp. sensor delivered with DIEMATIC iSystem control panel would be too complex. If this sensor is used:</p> <ul style="list-style-type: none"> • with a wire connection remote control (AD285 or FM52), it is necessary to order the "Boiler radio module" as well • With a radio remote control (AD284), already combined with a radio transmitter AD252, it is not necessary to order a second transmitter . 	AD251 AD252	100013306 100013307
<p>8801Q018</p>	<p>Dip sensor with sensor tube The NTC 147 dip sensor is delivered with an IP 54 junction box and a sensor tube Ø 1/2", useful length under head 120 mm.</p>	AD218	100004781

EQUIPMENT - CONTROL

DIEMATIC M3 CONTROL PANEL

DIEMATIC-M3



GT330_Q0021

- The virtual brain of the boiler, piloted by a micro-processor, a DIEMATIC M3® control panel is factory fitted with a programmable control unit that activates the burner according to the outside temperature. As it is preprogrammed, it does not require any preliminary setting.
- Extremely easy to use, DIEMATIC M3® is used to easily modify temperatures, programs and various other parameters at any time.
- Very user-friendly thanks to its display unit, it interfaces clearly with the user – in several languages – and pilots any type of installation, from the simplest to the most sophisticated. With a particularly well integrated design, DIEMATIC M3® control panels give the boilers a very high class aesthetic.
- 2 levels of access to the settings: flap closed and flap open:
 - Backlit LCD screen with plain text display of the date, time and current program; display of the current operating modes with clear symbols
 - Flap closed: keys to select the operating mode and set the temperatures, along with two + or – setting keys
 - Flap open: Keys to select standard or customisable programs, select circuits and scroll through menus to gain access to the settings

OPTIONS FOR DIEMATIC 3 AND DIEMATIC M3 CONTROL PANELS

FOR ALL INSTALLATIONS



8518Q0022

DHW sensor (lg. 5 m)

This is used for controlling the DHW temperature as a priority and programming of domestic hot water production by a storage tank.

PACKAGE REF.

AD212 10000030



8575Q036

PCB + sensor for 1 mixing valve (length 2.5m)

This is used to control a mixing valve with an electromechanical or electrothermal motor. The PCB is inserted into the DIEMATIC 3 or DIEMATIC-m 3 panel connected using socket and pin connections. DIEMATIC 3 or DIEMATIC-m3 can receive 1 or 2 "PCB + sensor" options, enabling it to control 1 or 2 mixing valves.

FM48 85757743



CALENTA_Q0005

866Q172A

CDI D.iSystem interactive remote control

CDR D.iSystem interactive "radio" remote control (without radio transmitter)

Boiler radio module (radio transmitter)

These are used to override all instructions from the DIEMATIC iSystem control panel from the room in which they are installed. In addition, they enable the self-adaptability of the heating curve for the circuit concerned (one CDI D.iSystem or CDR D.iSystem per circuit). In the case of the CDR D.iSystem, the data are transmitted by radio waves from the place where the CDR D.iSystem is installed to the transmitter/receiver box (package AD252) placed close to the boiler.

AD285 100018924

AD284 100018923

AD252 100013307



8575Q037

Simplified remote control with room sensor

This is used from the room in which it is installed to override certain instructions from the DIEMATIC-m 3 panel:

- room temperature program and instruction override. It is also used to enable the self-adaptability of the heating curve for the circuit concerned (1 remote control per circuit).

FM52 85757747



AD251

AD_Q0050

AD252

866Q172A

Outdoor sensor radio

Boiler radio module (radio transmitter)

The radio outside temperature sensor can be delivered as optional equipment for systems in which the installation of the wire connection outside temp. sensor delivered with DIEMATIC iSystem control panel would be too complex. If this sensor is used:

- with a wire connection remote control (AD285 or FM52), it is necessary to order the "Boiler radio module" as well
- With a radio remote control (AD284), already combined with a radio transmitter AD252, it is not necessary to order a second transmitter .

AD251 100013306

AD252 100013307

(1) For models equipped for DHW production, the outdoor sensor is delivered in the package.

EQUIPMENT - CONTROL

DIEMATIC 3 AND DIEMATIC m3 CONTROL PANEL

OPTIONS FOR DIEMATIC 3 AND DIEMATIC m3 CONTROL PANELS



8531Q013

Set of 2 sensors for storage tank (length 5 m)
Includes 1 outdoor sensor and 1 heating sensor for managing a storage tank with a boiler fitted with a Diematic 3 or Diematic -m3 3 control panel.

PACKAGE REF.

AD160 **88017887**

+ FOR GT 220 ONLY



GT22L_Q0001

2-stage/mod./3WV PCB
This PCB is used to control a GT 220 D boiler fitted with a 2-stage or modulating burner. It also includes control and programming of a circuit with a 3-way mixing valve; the outlet sensor downstream of the valve (package AD199) must be ordered separately, however.

PACKAGE REF.

AD217 **100004294**



GT22L_Q0002

Sensor for mixing valve (length 2.5m)
This sensor is required if using the "2st./mod./3WV PCB" for controlling a circuit with mixing valve.

AD199 **88017017**

+ FOR GT 330/430/530

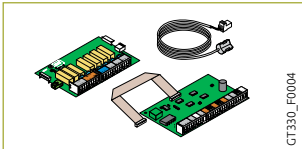


GT220_Q0002

Sensor for mixing valve (length 2.5m)
This sensor is required to connect a circuit with mixing valve to a boiler fitted with a DIEMATIC-m 3 control panel when there is no direct circuit (without valve)

PACKAGE REF.

AD199 **88017017**



GT330_F0004

Relay PCB + sensors for 1st valve circuit
This package is required to connect the first circuit with mixing valve to a boiler fitted with a K3 control panel in case of a cascade installation.

AD220 **100004970**



866G0174

Room sensor
A room sensor is connected to activate the comfort period start-up optimisation function from the room in which it is installed. It is also used to enable the self-adaptability of the heating curve for the circuit concerned (1 sensor per circuit).

AD244 **100012044**

OTHER



8199Q063

Connecting cable (length 40m)
The 40 m long armored connecting cable is intended to replace the 12 m BUS cable, (package AD134) when these turn out to be too short.

PACKAGE REF.

DB119 **81997720**



8227Q022

BUS cable extension
This accessory is used to make the connection between 2 BUS cables if the 2 boilers to be connected are too far from each other.

AD139 **88017858**



8801Q018

Dip sensor with sensor tube
The NTC 147 dip sensor is delivered with an IP 54 junction box and a sensor tube Ø 1/2", useful length under head 120 mm.

AD218 **100004781**

EQUIPMENT - CONTROL

WALL-HUNG CONTROL UNIT **DIEMACONTROL**

DIEMACONTROL



DIEMACONTROL_Q0010

The DiemaControl electronic control system, integrated into a wall unit, allows 1 heating circuit and 1 DHW circuit to be controlled and regulated.

- The DiemaControl can managed up to 2 MMTC outdoor unit over Modbus and 1 boiler
- The DiemaControl can be used in conjunction with one or more generators equipped with the Diematic Evolution

- Number of zones can be extended by adding Diematic VM Evolution in the system.











- **Dimensions:** length: 440 mm, height: 300 mm, depth: 125 mm
- **International Protection marking:** IP 21

MODEL

VM Diematic Evolution

Package	AD315
Ref	7676561

OPTIONS FOR THE WALL-HUNG CONTROL UNIT VM DIEMACONTROL

	PACKAGE	REF.
 <p>8518Q002</p>	DHW sensor (lg. 5 m)	
This is used for controlling the DHW temperature as a priority and programming of domestic hot water production by a storage tank.		AD212 10000030
 <p>GT220_Q0002</p>	Sensor for mixing valve (length 2.5m)	
This sensor is used for controlling the heating water outlet.		AD199 88017017
 <p>MCA_Q0012</p>	Sensor for storage tank (length 5m)	
Includes 1 sensor for managing a storage tank with a boiler or a cascade fitted with a VM Diematic Evolution wall-hung control (boiler or a heat pump or a VM Diematic Evolution).		AD250 100013305
 <p>MCA_Q0013</p>	PCB + sensor for 1 mixing valve (length 2.5m)	
This is used to control a mixing valve with an electromechanical or electrothermal motor. The PCB is inserted into the Diematic Evolution panel connected by pin connections. VM Diematic Evolution can receive 1 "PCB + sensor" option, enabling it to control 1 additional mixing valve.		AD249 100013304
 <p>AD337 TH_Q0001 AD338 TH_Q0002</p>	Programmable room thermostat	
This thermostat controls the heating according to several operating modes:		AD337 7768817
• AUTOMATIC: according to the hourly programming, the setpoint temperature automatically changes from Comfort to Economy and vice versa. It is also possible to remain in Permanent Comfort, Permanent Reduced or Permanent Frost Protection.		(wired)
• ABSENCE: this mode allows you to set a permanent temperature between 5 and 15°.		or
• MANUAL: this mode allows you to switch from Comfort to Economy (or vice versa) until the next program change.		AD338 7768818
• STOP: this mode allows you to stop the heating demand in summer for example.		(wireless)
 <p>AD_Q0050</p>	Outdoor sensor (wireless)	
Only in combination with the Smart TC RF communication gateway (AD341).		AD346 7776874
 <p>AD_Q0050</p>	Outdoor sensor	FM46 85757741
 <p>SMARTTC_Q007</p>	SMART TC° connected room thermostat (wired R-BUS)	
The SMART TC° connected room thermostat is designed to be connected via a R-BUS cable on our boilers MODULENS O PRO, EVODENS, CF/CFU Econox and CFU C...Condens and our PAC ALEZIO S V200 and ALEZIO S COMPACT.		AD324 7691375
It enables remote control of the heating and domestic hot water via a free application easy for the user to learn, with the option of providing a professional with access to their installation.		
 <p>AD341 SMARTC_EnergyRF SMARTC_Q0007</p>	Connected thermostat/room sensor wireless SMART TC° RF (wireless)	
For ON/OFF, OpenTherm or Native communication.		AD341 7691377
 <p>AD342 SMARTC_Q000</p>	Connected thermostat/room sensor SMART TC° RF (wireless)	
For 2 nd circuit.		AD342 7765144

EQUIPMENT - CONTROL

WALL-HUNG CONTROL UNIT DIEMACONTROL

OPTIONS FOR THE WALL-HUNG CONTROL UNIT DIEMACONTROL



AD308

MCA_Q0151

AD309

MCA_Q0149

AD310

MCA_Q0150



MCA_Q0152



VM_Q0009

	PACKAGE	REF.
S-Bus cable (with terminations) The BUS cable enables two boilers equipped with the Diematic Evolution or IniControl 2 panel to be connected as part of a cascade installation. The cable can also be used to connect two VM Diematic Evolution systems.		
• lg 1,5 m	AD308	7663618
• lg 12 m	AD309	7663561
• lg 20 m	AD310	7663619
S-BUS plug		
	AD321	7688305
Control unit VM DIEMATIC Evolution, wall-mounted		
	AD315	7676561
Interface Modbus		
	GTW 08	7721982
Control unit VM DIEMATIC Evolution, wall-mounted		
	GTW 21	7756023

EQUIPMENT - CONTROL

WALL-HUNG CONTROL UNIT VM DIEMATIC EVOLUTION

VM DIEMATIC EVOLUTION



VM_Q0009

The VM Diematic Evolution electronic control system, integrated into a wall unit, allows 3 heating circuits and 2 DHW circuits to be controlled and regulated; each of the heating circuits can be a direct circuit or a circuit with a 3-way motorised mixing valve.

- It is possible to link together up to 8 VM Diematic Evolution control systems and to thereby create numerous combinations, regardless of the type of installation:
 - The VM Diematic Evolution can be used in combination EVODENS, ALEZIO SV200, ALEZIO S Compact and MODULENS O PRO (PFC 45/60/90/120) boilers to manage the additional heating and DHW circuits
 - The VM Diematic Evolution can be used in conjunction with one or more generators equipped with the Diematic Evolution or IniControl 2
 - The DIEMATIC VM EVOLUTION can be integrated into a DIEMATIC iSystem via the Modbus as a secondary only.

- The VM Diematic Evolution can also be used on its own in standalone mode to regulate the heating and DHW circuits depending on the outdoor temperature (FM46 sensor to be ordered separately)











- It can also control a cascade of boilers equipped with a Diematic Evolution control panel
- The VM Diematic Evolution also has a 0-10 V input that can be configured for on/off phone control.
- Dimensions: length: 320 mm, height: 260 mm, depth: 130 mm
- International Protection marking: IP 21 - Reversible hinged door, lockable and sealable

MODEL

VM Diematic Evolution

Package	AD315
Ref	7676561








OPTIONS FOR THE WALL-HUNG CONTROL UNIT VM DIEMATIC EVOLUTION

	PACKAGE	REF.
 <p>85180002</p>	DHW sensor (lg. 5 m)	
This is used for controlling the DHW temperature as a priority and programming of domestic hot water production by a storage tank.		AD212 10000030
 <p>GT220_Q0002</p>	Sensor for mixing valve (length 2.5m)	
This sensor is used for controlling the heating water outlet.		AD199 88017017
 <p>MCA_Q0012</p>	Sensor for storage tank (length 5m)	
Includes 1 sensor for managing a storage tank with a boiler or a cascade fitted with a VM Diematic Evolution wall-hung control (boiler or a heat pump or a VM Diematic Evolution).		AD250 100013305
 <p>MCA_Q0013</p>	PCB + sensor for 1 mixing valve (length 2.5m)	
This is used to control a mixing valve with an electromechanical or electrothermal motor. The PCB is inserted into the Diematic Evolution panel connected by pin connections. VM Diematic Evolution can receive 1 "PCB + sensor" option, enabling it to control 1 additional mixing valve.		AD249 100013304
 <p>AD337 TH_Q0001</p>	Programmable room thermostat	
This thermostat controls the heating according to several operating modes:		AD337 7768817
• AUTOMATIC: according to the hourly programming, the setpoint temperature automatically changes from Comfort to Economy and vice versa. It is also possible to remain in Permanent Comfort, Permanent Reduced or Permanent Frost Protection.		(wired)
• ABSENCE: this mode allows you to set a permanent temperature between 5 and 15°.		AD338 7768818
• MANUAL: this mode allows you to switch from Comfort to Economy (or vice versa) until the next program change.		(wireless)
• STOP: this mode allows you to stop the heating demand in summer for example.		
 <p>AD338 TH_Q0002</p>	Outdoor sensor (wireless)	
Only in combination with the Smart TC RF communication gateway (AD341).		AD346 7776874
 <p>AD_Q0050</p>	Outdoor sensor	
		FM46 85757741
 <p>AD_Q0050</p>	SMART TC° connected room thermostat (wired R-BUS)	
The SMART TC° connected room thermostat is designed to be connected via a R-BUS cable on our boilers MODULENS O PRO, EVODENS, CF/CFU Econox and CFU C...Condens and our PAC ALEZIO S V200 and ALEZIO S COMPACT. It enables remote control of the heating and domestic hot water via a free application easy for the user to learn, with the option of providing a professional with access to their installation.		AD324 7691375
 <p>AD341 SMARTTC_Engineer_RF SMARTTC_Q0001</p>	Connected thermostat/room sensor wireless SMART TC° RF (wireless)	
For ON/OFF, OpenTherm or Native communication.		AD341 7691377
 <p>AD342 SMARTTC_Q000</p>	Connected thermostat/room sensor SMART TC° RF (wireless)	
For 2 nd circuit.		AD342 7765144

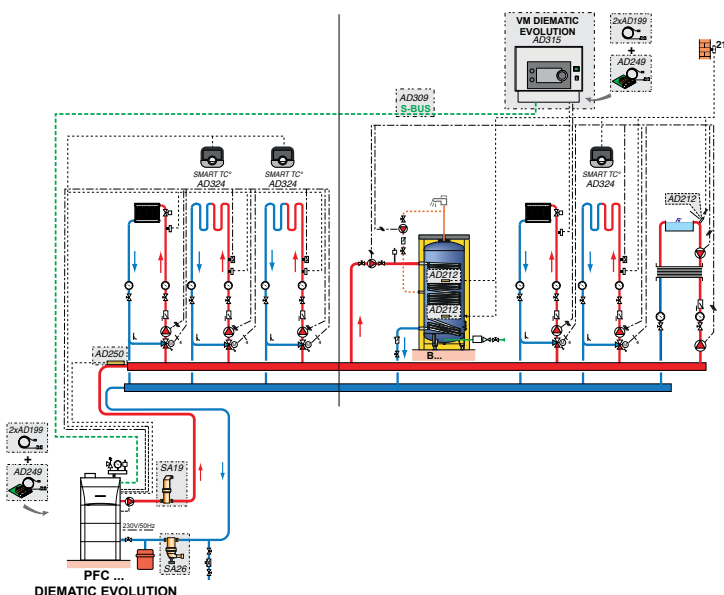
EQUIPMENT - CONTROL

WALL-HUNG CONTROL UNIT VM DIEMATIC EVOLUTION

OPTIONS FOR THE WALL-HUNG CONTROL UNIT VM DIEMATIC EVOLUTION

	PACKAGE	REF.
 AD308  AD309  AD310		
S-Bus cable (with terminations) The BUS cable enables two boilers equipped with the Diematic Evolution or IniControl 2 panel to be connected as part of a cascade installation. The cable can also be used to connect two VM Diematic Evolution systems.		
• lg 1,5 m	AD308	7663618
• lg 12 m	AD309	7663561
• lg 20 m	AD310	7663619
	AD321	7688305
S-BUS plug		
	AD134	88017851
BUS connection cable (length 12m) The BUS cable is used to link the VM Diematic Evolution wall-hung control unit and the Diematic Evolution control panel.		
	AD124	88017836
Inter module connecting cable (length 1.5m) The BUS cable is used to link the VM Diematic Evolution wall-hung control unit and the Diematic Evolution control panel.		
	DB119	81997720
Connecting cable (length 40m) This is intended to replace either the 12m or the 1 m cable when these turn out to be too short.		

EXAMPLE OF INSTALLATION



DESCRIPTION

	PACKAGE	REF.
Boiler PFC60	MV109	7678802
3 x DHW sensor	3 x AD212	3 x 100000030
Brass microbubble degasser	SA19	7650334
Brass sludge separator Rp2	SA26	7650378
4 sensor for mixing valve	4 x AD199	4 x 88017017
2 PCB + sensor for mixing valve	2 x AD249	2 x 100013304
Regulation VM Diematic Evolution	AD315	7676561
S-BUS cable (length 12m)	AD309	7663561
Tank B1000	AJ80	7650482
Rigid casing	AJ97	7650499
Sensor for storage tank (length 5m)	AD250	100013305
Options:		
- 3 x connected thermostats	3 x AD324	3 x 7691375

VM_F0013

EQUIPMENT - CONTROL

WALL-HUNG CONTROL UNIT VM DIEMATIC ISYSTEM

VM DIEMATIC ISYSTEM



The VM iSystem electronic control system, incorporated in a wall-mounted box, is used to manage and control two heating circuits and a DHW circuit and each of the heating circuits may be a direct circuit or a circuit with motorised 3-way mixing valve.

- It is possible to interlink up to 20 DIEMATIC VM iSystem control systems and thus configure numerous combinations, regardless of the type of installation:
 - DIEMATIC VM iSystem can be used in combination with an existing generator to control additional heating and DHW circuits. In this case, it will communicate with the generator via a BUS cable (e.g. De Dietrich boiler fitted with a DIEMATIC control panel).
 - DIEMATIC VM iSystem can also be used fully autonomously on its own to control heating and DHW circuits according to the outside temperature (sensor to be ordered separately – package FM46) independently of the generator.

In addition, DIEMATIC VM iSystem can control a boiler via OpenTherm (outlet available on DIEMATIC VM

iSystem) for a boiler equipped with an OpenTherm bus, or as "ON/OFF" via the auxiliary contact for any other generator (burner, HP, wood-fired boiler...).

- It can also control a boiler cascade:
 - Equipped with a DIEMATIC control panel
 - Equipped with an OpenTherm BUS via an interface board (1 board per generator);
- DIEMATIC VM iSystem is also equipped with an auxiliary outlet which, apart from controlling a generator in ON/OFF mode, allows the control of a heating pump, a primary pump, a second DHW circuit, an alarm signal, etc. It also has a 0-10V inlet that can be configured for ON/OFF telephone control.
- Dimensions: length: 320 mm, height: 260 mm, depth: 130 mm
- Protection class: IP 65 - Reversible hinged door, lockable and sealable

MODEL

		DIEMATIC VM ISYSTEM	
		Package	AD281
		Ref	100018254





OPTIONS FOR THE WALL-HUNG CONTROL UNIT DIEMATIC VM ISYSTEM

		PACKAGE	REF.
	Outdoor sensor	FM46	85757741
	DHW sensor (lg. 5 m) This is used for controlling the DHW temperature as a priority and programming of domestic hot water production by a storage tank.	AD212	100000030
	Sensor for mixing valve (length 2.5m) This sensor is used for controlling the heating water outlet.	AD199	88017017
	Sensor for storage tank (length 5m) Includes 1 sensor for managing a storage tank with a boiler fitted with a VM Diematic Evolution wall-hung control.	AD250	100013305
	CDI D. iSystem interactive remote control	AD285	100018924
	CDR D. iSystem interactive "radio" remote control (without radio transmitter)	AD284	100018923
	Radio boiler module DIEMATIC iSystem (transmitter) These are used to override all instructions from the DIEMATIC VM iSystem control from the room in which they are installed. In addition, they enable the self-adaptability of the heating regime for the circuit concerned (one CDI D.iSystem or CDR D.iSystem per circuit). In the case of the CDR D.iSystem, the data are transmitted by radio waves from the place where the CDR.iSystem is installed to the transmitter/receiver box (package AD252) placed close to the boiler.	AD252	100013307
	Simplified remote control with room sensor This is used from the room where it is installed to override certain instructions from the DIEMATIC VM iSystem control: <ul style="list-style-type: none"> room temperature program and instruction override. It is also used to enable the self-adaptability of the heating curve for the circuit concerned (1 remote control per circuit). 	FM52	85757747
	Radio outside temperature sensor	AD251	100013306
	Boiler radio module (radio transmitter) The radio outside temperature sensor can be delivered as optional equipment for systems in which the installation of the external wire connection sensor delivered with DIEMATIC VM iSystem control would be too complex. If this sensor is used: <ul style="list-style-type: none"> With a wire connection remote control (AD285 or FM52) it is necessary to order the "Boiler radio module" With a radio remote control (AD284), already combined with a "boiler radio module" (AD252), control of a second module is not necessary. 	AD252	100013307

EQUIPMENT - CONTROL

WALL-HUNG CONTROL UNIT VM DIEMATIC ISYSTEM

OPTIONS FOR THE WALL-HUNG CONTROL UNIT DIEMATIC VM ISYSTEM

		PACKAGE	REF.
 VM_Q0003	Wall-mounted OpenTherm/Modbus Interface box Needed to control a boiler cascade (1 board per boiler).	AD286	100018920
 8801Q021	BUS connection cable (length 12m) The BUS cable is used to link the VM DIEMATIC iSystem wall-hung control unit and the DIEMATIC iSystem control panel.	AD134	88017851
 8801Q022	Inter module connecting cable (length 1.5m) The BUS cable is used to link the VM DIEMATIC iSystem wall-hung control unit and the DIEMATIC iSystem control panel.	AD124	88017836
 8199Q063	Connecting cable (length 40m) This is intended to replace either the 12m or the 1 m cable when these turn out to be too short.	DB119	81997720

EQUIPMENT

FUEL-OIL AND GAS BURNERS

SELECTION GUIDE

Fuel-oil burners M...

Gas burners G...



M100 S

M 200 S

M 300 S

M 40 S

G 110 N

G 200 N

G 300 N

G 40

	Power input	M100 S	M 200 S	M 300 S	M 40 S	G 110 N	G 200 N	G 300 N	G 40
	kw	16 to 65	18 to 126	75 to 460	185 to 1 050	17 to 79	50 to 123	55 to 405	205 to 1 030
Burner type	• 1-stage	X	X (M 201-2 S)	X (M 311-2 S)	-	X	X (G 201-2 N)	-	-
	• 2-stage	-	X (M 202-2 S)	X (M 312-2S/3S/4S M 302-5S/6S)	X	-	-	-	-
	• modulating	-	-	-	-	-	X (G 203-2 N)	X	X
Burner		Low NOx	Low NOx	-	-	-	EcoNOx	EcoNOx	Standard
Pressure of supply gas	• 20/25 mbar	-	-	-	-	-	X	X	X
	• 300 mbar	-	-	-	-	-	-	X	X (with pressure regulator)
Energy type	• natural gas	-	-	-	-	X	X	X	X
	• butane	-	-	-	-	-	-	-	-
	• propane	-	-	-	-	-	X	-	-
Pages		269	270	271	272	273	274	275	276
Options			277				277		

EQUIPMENT - BURNERS

LOW-NOX FUEL-OIL BURNERS

M 100 S from 16 to 65 kW

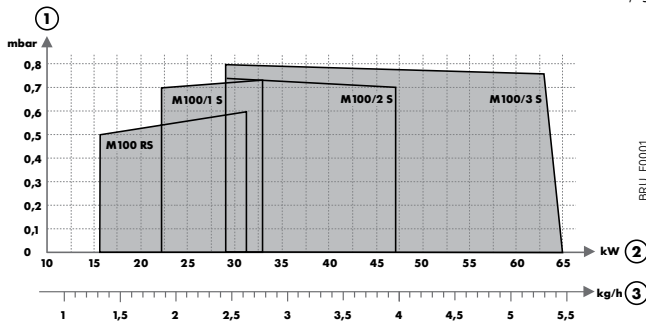


- 1-stage fuel-oil burners tested and preset in operation
- Low pollutant emissions: NOx < 120 mg/kWh
- Burners matching De Dietrich boilers CF/CFU EcoNox
- Burners that can be fitted on boilers of all brands
- Safe, performance efficient operation** thanks to a powerful aeraulic system DUO-PRESS
- Pre-heater on model M 100 RS
- Silent running**
- Connection through a pre-wired plug to European standard
- Sliding flange

- 2 fuel-oil hoses delivered
- Easy maintenance:** easy access to all components and vertical service positioning of the nozzle line
- Packaging:** 1 package

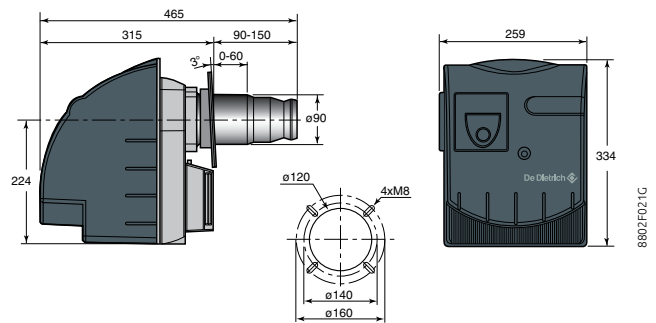
FIRING RATES

Output at an altitude of 400 m, and 20°C.
Fuel-oil low calorific value: 11.86 kWh/kg



- ① Combustion chamber pressure
- ② Burner output
- ③ Fuel oil flow

MAIN DIMENSIONS (mm and inches)



IMPORTANT:

- The burner selection, the adaptation of the nozzle and the settings should be done by the fitter according to the specific local installation conditions. The pressure/flow curve is used to double-check that burner and boiler are perfectly matching.
- The burner output should be adapted to the boiler output, bearing in mind its effective useful efficiency.

MODEL

		WITH PRE-HEATER		WITHOUT PRE-HEATER	
		M 100 RS	M 100/1 S	M 100/2 S	M 100/3 S
Burner output	kW	16 to 31	22 to 33	29 to 47	29 to 65
Preset output	kW	22	28	33	55
Fuel-oil mass flow rate (1)	kg/h	1.35 to 2.60	1.85 to 2.80	2.45 to 4.00	2.45 to 5.49
Matching boilers (3)		CF	CF 22	CF 29, 36	CF 46, GT 224, GT 225(4)
Pre mounted injection nozzle	US Gal./h	0.50/60 °S	0.55/60 °S	0.65/45 °S	1.25/60 °H
Max. absorbed power	W	215	185	185	215
Motor power (2)	W	90	90	90	120
Noise level at 1 m	dB(A)	58	59	60	68
Net weight	kg	12	12	12	12

(1) Maximum viscosity 6.0 mm²/s at 20°C.

(2) 230 V single-phase.

(3) NB: be careful to check that the nozzle used matches the boiler working output.

(4) until 59 kW.

MODEL

	M 100 RS	M 100/1 S	M 100/2 S	M 100/3 S
Ref.	88027318	88027319	88027320	100005100

EQUIPMENT - BURNERS

LOW-NOX FUEL-OIL BURNERS

M 200 S from 55 to 125 kW

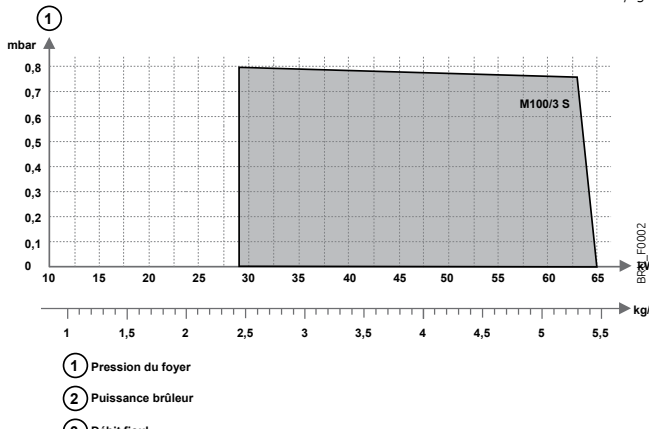


- 1-stage fuel-oil burners (M 201/2S) or 2-stage fuel-oil burners (M 202/2S) **tested and preset in operation**
- Low pollutant emissions: NOx < 120 mg/kWh
- Burners matching De Dietrich boilers GT 225 to 228 and GT 334
- Burners that can be fitted on boilers of all brands
- Safe, performance efficient operation** thanks to a powerful aeraulic system DUO-PRESS
- Silent running**
- Connection through a pre-wired plug to European standard

- Sliding flange
- 2 fuel-oil hoses delivered
- Easy maintenance:** easy access to all components and vertical service positioning of the nozzle line
- Packaging:** 1 package

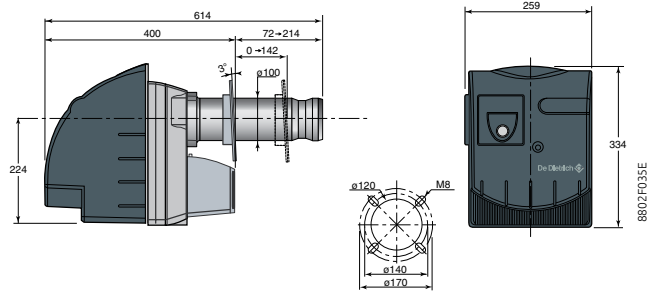
FIRING RATES

Output at an altitude of 400 m, and 20°C.
Fuel-oil low calorific value: 11.86 kWh/kg.



- ① Combustion chamber pressure
- ② Burner output
- ③ Fuel oil flow

MAIN DIMENSIONS (mm and inches)



IMPORTANT

- The burner selection, the adaptation of the nozzle and the settings should be done by the fitter according to the specific local installation conditions. The pressure/flow curve is used to double-check that burner and boiler perfectly matching.
- The burner output should be adapted to the boiler output, bearing in mind its effective useful efficiency.

MODEL

		1-STAGE M 201/2 S	2-STAGE M 202/2 S
Burner output	kW	60 to 124	55*/80 to 125
Fuel-oil flow rate (1)	kg/h	5.0 to 10.4	4.6/6.7 to 10.5
Matching boilers (3)	GT	225 > 59 kW, 226/227/228/334	226, 227/228 (4)/334
Pre-mounted injection nozzle	US Gal/h	1.50/45 °S	1.25/45 °S
Additional injection nozzle delivered with the burner	US Gal/h	1.75/45 °S	1.50/45 °S
Preset output	kW	75	55*/80
Max. absorbed power	W	245	250
Motor power (2)	W	150	150
Noise level	dB(A)	66	66
Net weight	kg	15	16.5

* Min. output at 1-stage

(1) Maximum viscosity 6.0 mm²/s at 20°C

(2) 230 V single-phase

(3) NB: be careful to check that the nozzle used matches the boiler working output

(4) For GT 226/227/228 fitted with the B2 or DIEMATIC + AD217 control panel only

MODEL

	M 201/2 S	M 202/2 S
Ref.	88027313	88027314

EQUIPMENT - BURNERS

LOW-NOX FUEL-OIL BURNERS MEDIUM OUTPUTS

M 300 S from 75 to 460 kW

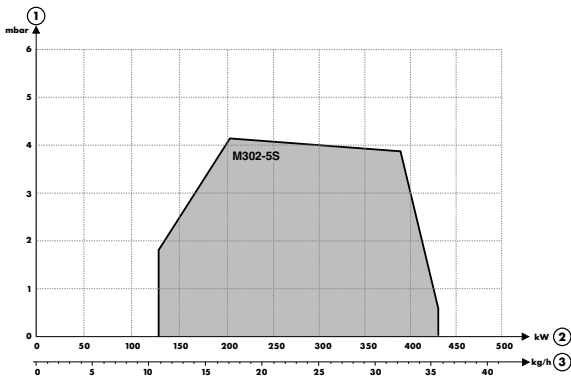
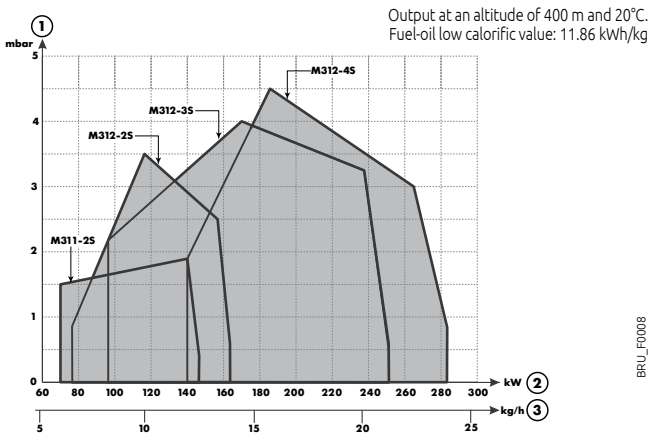


- 1-stage fuel-oil burners (M 301-2S) or 2-stage fuel-oil burners (M302-.S) tested and preset in operation
- Low pollutant emissions: NOx < 120 mg/kWh
- Burners matching De Dietrich boilers GT 330 and GT 430
- Burners that can be fitted on boilers of all brands
- Refractory steel combustion local
- Safe, performance efficient operation thanks to a powerful aerualic system DUO-PRESS
- Air flow adjustment by servomotor
- Silent running

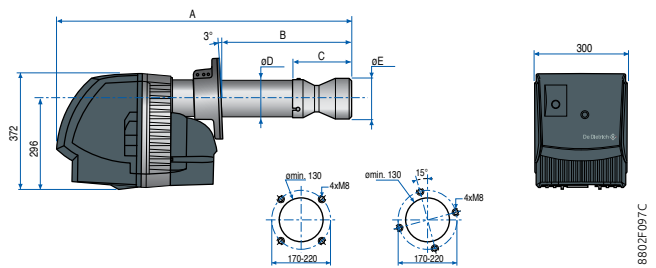
- Connection through a pre-wired plug to European standard
- Sliding flange
- 2 hoses fuel-oil delivered
- Easy maintenance: vertical service positioning of the nozzle line
- Packaging: 1 package

OPTIONS: see following pages

FIRING RATES



MAIN DIMENSIONS (mm and inches)



(mm)	A	B	C	D	ØE
M 311-2 S	687	140 to 230	-	120	-
M 312-2 S	687	140 to 230	-	120	-
M 312-3 S	710	140 to 260	-	120	-
M 312-4 S	725	140 to 270	-	120	-
M 302-5 S	755	140 to 210	-	120	-

- ① Combustion chamber pressure
- ② Burner output
- ③ Fuel oil flow

IMPORTANT

- The burner selection, the adaptation of the nozzle and the settings should be done by the fitter according to the specific local installation conditions. The pressure/flow curve is used to double-check that burner and boiler are perfectly matching.
- The burner output should be adapted to the boiler output, bearing in mind its effective useful efficiency.

MODEL

	M 311-2 S	M 312-2 S	M 312-3 S	M 312-4 S	M 302-5 S
Number of stages	1	2	2	2	2
Burner output	kW 77-166	78*/116-166	92*/170-256	140*/186-284	126*/202-430
Fuel-oil mass flow rate (1)	kg/h 6.5-14.0	6.6/9.8-14.0	7.8/14.3-21.6	11,8/15.7-23.9	10.6/17.0-36.3
Preset output	kW 120	100/140	125/175	140/210	215/315
Matching boilers (3)	GT 335 CA430	336	337	338	339, 430-8, 430-9 250, 300
Pre-mounted injection nozzle	US Gal/h 2.5/45°S	2.25/45°S	2.75/45°S	3.50/45°S	5.0/60°S
Motor power (2)	W 260	260	380	380	650
Max. absorbed power	W 360	360	550	550	1000
Noise level at 1 m	dB(A) 69	68	70	70	72
Net weight	kg 21	21.5	23	23	30

* Min. output at 1 stage
 (1) Maximum viscosity 6.0 mm²/s at 20°C.
 (2) 230 V 1N~/50 Hz
 (3) NB: be sure to check that the nozzle used matches the boiler working output.
 (4) Plan a separate power supply for the motors of the burners > 450 kW

MODEL

	M 311-2 S	M 312-2 S	M 312-3 S	M 312-4 S	M 302-5 S
Ref.	7724917	7724918	7724919	7724960	100004086

EQUIPMENT - BURNERS

FUEL-OIL BURNERS HIGH OUTPUT

M 40 S

from 185 to 1050 kW



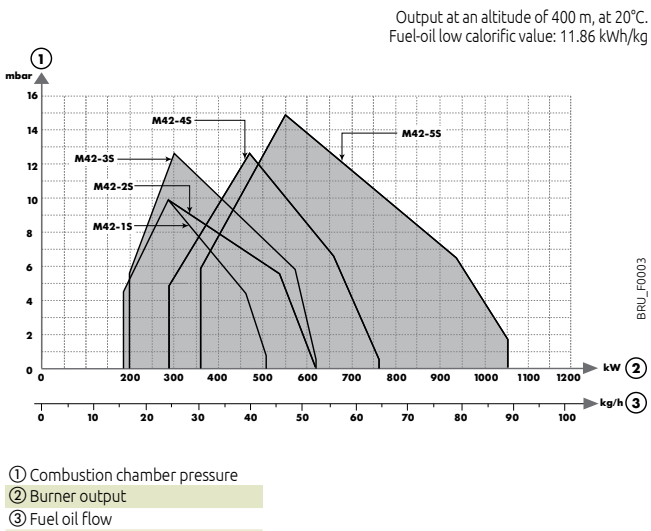
2-stage fuel-oil burners tested in factory

- Burners matching De Dietrich boilers GT 430 and GT 530, delivered the nozzles to cover all the concerned power ranges
- Burners that can be fitted on boilers of all brands
- Single flame tube long enough for most boilers on the market
- **Safe, performance efficient operation** thanks to a powerful aerualic system DUO-PRESS
- Air flow adjustment by servomotor
- Connection through a pre-wired plug to European standard, counter-flanges delivered

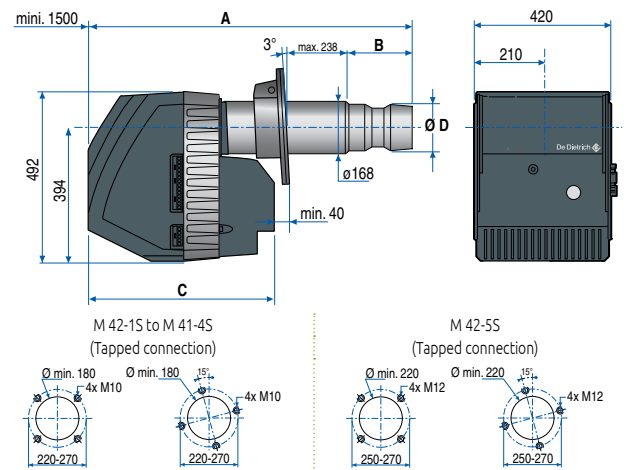
- Sliding flange
- 2.5 m in long fuel-oil hoses delivered
- **Easy maintenance:** vertical service positioning of the nozzle line
- **Packaging:** 1 package

OPTIONS: see following pages

FIRING RATES



MAIN DIMENSIONS (mm and inches)



M 42-..	1 S	2 S	3 S	4 S	5 S
A	1080	1080	1080	1061	1089
B	222	222	222	203	191
C	611	611	611	611	651
Ø D	140	140	140	160	210

IMPORTANT

- The burner selection, the adaptation of the nozzle and the settings should be done by the fitter according to the specific local installation conditions. The pressure/flow curve is used to double-check that burner and boiler are matching perfectly.
- The burner output should be adapted to the boiler output, bearing in mind its effective useful efficiency.

MODEL

		M 42-1 S	M 42-2 S	M 42-3 S	M 42-4 S	M 42-5 S
Burner output	kW	185*/285-515	185*/285-625	200*/300-625	290*/465-765	360*/550-1050
Fuel-oil mass flow rate (1)	kg/h	15.6/24.1-43.5	15.6/24.1-52.8	16.9/25.3-52.8	24.5/39.3-64.6	30.4/46.5-88.7
Matching boilers (2)	GT430	-	430-9	430-9	430-10, 430-11	430-12 to 430-14
	GT530	530-7	530-8	530-8	530-9 to -11	530-12 to -16
Pre-set burner output	kW	280/450	320/515	400/625	410/645	620/910
Pre-mounted injection nozzle	US.Gal/h	6.5/45° B	7.5/45° B	10.0/45° B	10.0/45° B	10.0/60° B + 5.0/45° B
Max. absorbed power	W	1100	1280	1400	2200	2430
Motor power (3)	W	650	750	1100	1750	2200
Power supply		single phase	single phase	three-phase	three-phase	three-phase
Noise level at 1 m	dB(A)	~ 69	~ 69	~ 69	~ 69	~ 76
Net weight	kg	51	51	57	57	64

*min. output at 1st stage.

(1) Maximum viscosity 6.0 mm²/s at 20°C.

(2) NB: be careful to check that the nozzle used matches the boiler working output.

(3) Plan a separate power supply for the motors of the burners > 450 kW

MODEL

	M 42-1 S	M 42-2 S	M 42-3 S	M 42-4 S	M 42-5 S
Ref.	88027121	88027122	88027123	88027124	88027125

EQUIPMENT - BURNERS

LOW NOX GAS PRESSURE JET BURNERS

G 110 N

from 17 to 79 kW



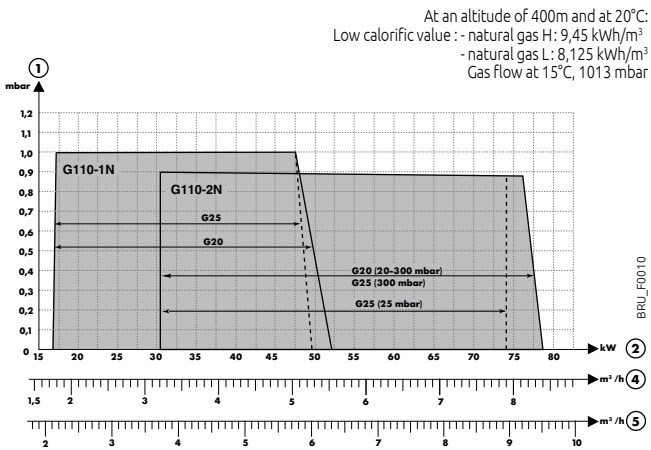
- 1-stage gas burners tested and preset in operation
- Fitted to operate on natural gas
 - Low pollutant emissions: NOx < 56 mg/kWh
 - Burners matching De Dietrich boilers CF/CFU EcoNox and GT 224/225/226
 - Burners that can be fitted on boilers of all brands
 - Safe, performance efficient operation thanks to a powerful aerulic system DUO-PRESS®

- Silent running
- Connection through a pre-wired plug to European standard
- Sliding flange
- Easy maintenance: easy access to all components and vertical service positioning of the nozzle line
- Packaging: 1 package

N° CE being homologated

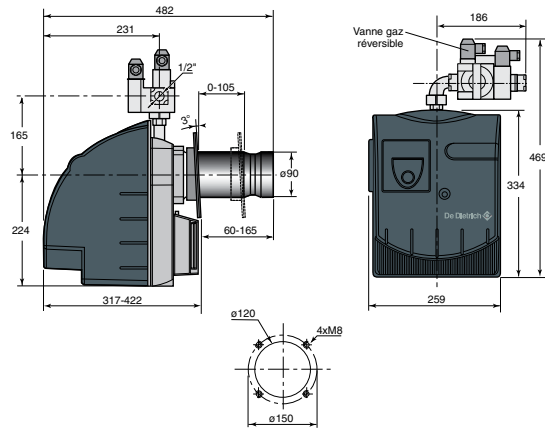
OPTIONS: see following pages

FIRING RATES



- ① Combustion chamber pressure
- ② Burner output
- ④ Flow on natural gas H
- ⑤ Flow on natural gas L

MAIN DIMENSIONS (mm and inches)



IMPORTANT
 - The burner settings should be done by the fitter, according to the specific local installation conditions.
 - The burner output should be adapted to the boiler output, bearing in mind its effective useful efficiency.

MODEL

		G 110-1 N	G 110-2 N
Min./Max. burner output	kW	17 to 52	31 to 79
Preset output	kW	26	54
Min./Max. gas flow on natural gas H (1)	m ³ /h	1.69-5.50	3.28-8.36
Matching boilers		CF 22, 29, 36, 46	GT 224/225/226
Min./max. pressure on nat. gas H	mbar	17/70	17/360
Preset flow on nat. gas H	m ³ /h	2.75	5.71
Preset pressure on nat. gas H	mbar	2.5	5.2
Max. absorbed power	W	150	155
Motor power (2)	W	90	90
Net weight	kg	13	14.5

(1) at 15°C - 1013 mbar
 (2) 230 V single-phase

MODEL

		G 110-1 N	G 110-2 N
Gas supply pressure	mbar	20-25-300	20-25-300
	Ref.	7724961	7724962

EQUIPMENT - BURNERS

ECO.NOX GAS PRESSURE JET BURNERS

G 200 N from 50 to 123 kW



N° CE 0085BP0154

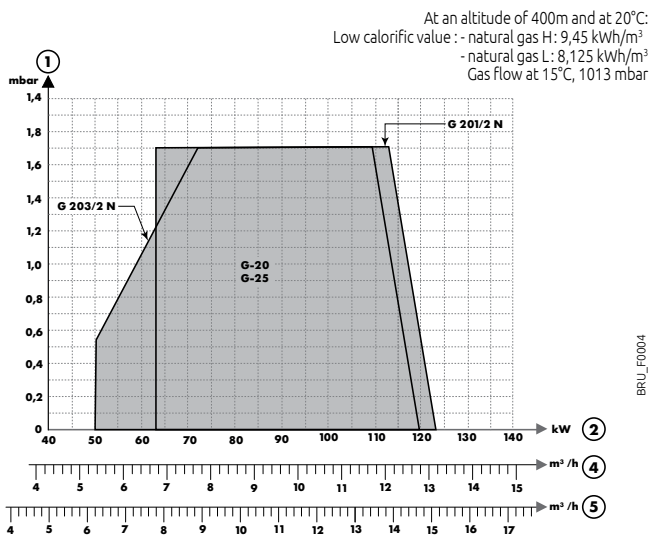
OPTIONS: see following pages

1-stage (G 201/2 N) or modulating (G 203/2 N) gas burners tested and preset in operation

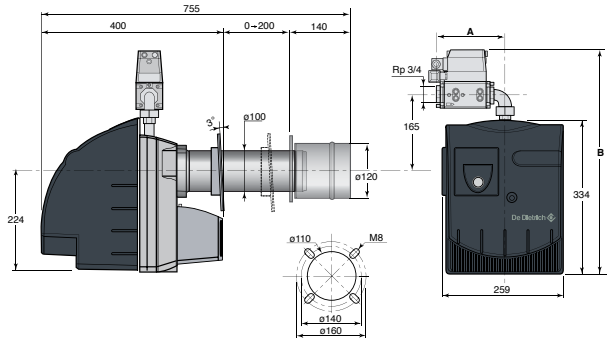
- Fitted to operate on natural gas
- Operation on propane with conversion kit (option)
- Low pollutant emissions: NOx < 70 mg/kWh
- Burners matching De Dietrich boilers GT 220 and GT 334
- Burners that can be fitted on boilers of all brands
- Safe, performance efficient operation thanks to a powerful aeraulic system DUO-PRESS
- Silent running

- Connection through a pre-wired plug to European standard
- Sliding flange
- **Easy maintenance:** easy access to all components and vertical service positioning of the nozzle line
- **Packaging:** 1 package

FIRING RATES



MAIN DIMENSIONS (mm and inches)



	A	B
G 201/2 N	180	535
G 203/2 N	174	538

IMPORTANT

- The burner settings should be done by the fitter, according to the specific local installation conditions
- The burner output should be adapted to the boiler output, bearing in mind its effective useful efficiency.

MODEL

		G 201/2 N (1-STAGE)	G 203/2 N (MODULATING)
Min./Max. burner output	kW	63-120	50-123
Preset output	kW	90	70-100
Min./Max. gas flow	natural gas H (1) on propane	m ³ /h kg/h	m ³ /h kg/h
Matching boilers	GT	226, 227, 228, 334	226, 227, 228, 334 (3)
Min./max. pressure on nat. gas H	mbar	3.6-8.5	1.6-6.5
Preset flow on nat. gas H	m ³ /h	9.52	7.41-10.58
Preset pressure on nat. gas H	mbar	6.2	2.8-5.3
Max. absorbed power	W	230	230
Motor power (2)	W	150	150
Net weight	kg	18	19.5

- (1) at 15°C - 1013 mbar
(2) 230 V single-phase
(3) GT 226, 227, 228 with B2 and D + AD217 control panel.

MODEL

		G 201/2 N	G 203/2 N
Gas supply pressure	mbar	20-25-300	20-25-300
	Ref.	88027324	88027325

EQUIPMENT - BURNERS

GAS PRESSURE JET BURNERS MEDIUM OUTPUT

G 300 N from 55 to 405 kW



Modulating gas burners tested and preset in operation

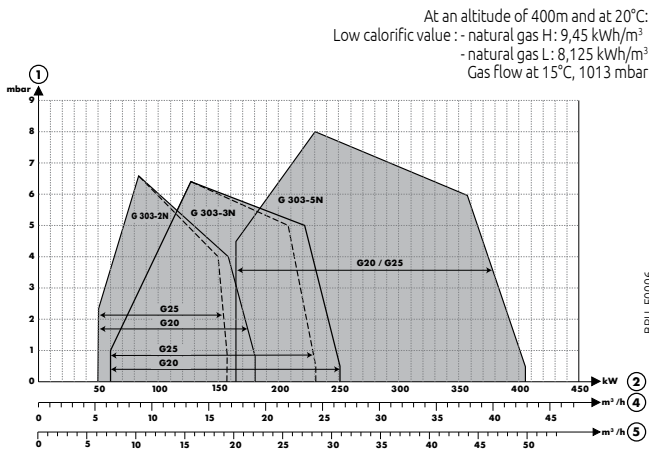
- Fitted to operate on natural gases, 20/300 mbar
- Low pollutant emissions: NOx < 75 mg/kWh (class 3 EN 676)
- Burners matching De Dietrich boilers GT 330:
 - for fully modulated operation on boilers with DIEMATIC-m3 an K3 control panel
 - for operation at 2 progressive stages on boilers with standard or B3 control panel
- Burners that can be fitted on boilers of all brands

- Safe, performance efficient operation thanks to a powerful aeruaic system DUO-PRESS®
- Connection through a pre-wired plug to European standard
- Sliding flange
- Easy maintenance vertical service positioning of the parts plate
- Packaging: 1 package

N° CE 0085BR0266

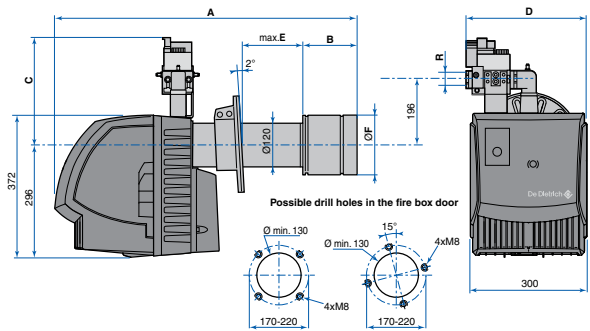
OPTIONS: see following pages

FIRING RATES



- ① Combustion chamber pressure
- ② Burner output
- ④ Flow on natural gas H
- ⑤ Flow on natural gas L

MAIN DIMENSIONS (mm and inches)



Type	A	B	C	D	E	F	R
G 303-2 N	798	156	310	356	190	215	Rp 3/4"
G 303-3 N	830	188	330	370	190	215	Rp 1" 1/4
G 303-5 N	938	216	330	370	170	245	Rp 1" 1/4

IMPORTANT

- The burner settings should be done by the fitter, according to the specific local installation conditions.
- The burner output should be adapted to the boiler output, bearing in mind its effective useful efficiency.

MODEL

	G 303-2 N	G 303-3 N	G 303-5 N
Number of stages	modulating	modulating	modulating
Burner output	kW 55 to 180	60 to 250	165 to 405
Flow on natural gas (1)	natural gas H m ³ /h 5.82 to 19.05	6.35 to 26.46	17.46 to 42.85
Matching boilers	GT 335, 336	337, 338	339, 430-8 and -9
	CA430 -	-	200, 250, 300
Preset burner output 1st/2nd stage	kW 65/130	90/200	200/300
Preset flow on natural gas H	m ³ /h 6.88/13.76	9.52/21.16	21.16/31.75
Noise level at 1 m	dB(A) 67	68	69
Motor power (2)	W 380	380	650
Net weight	kg 28.5	33	39

- (1) 15°C - 1013 mbar.
- (2) 230V single phase.

MODEL

	G 303-2 N	G 303-3 N	G 303-5 N
Gas supply pressure	mbar 20-25-300	20-25-300	20-25-300
	Ref. 100004507	100004508	100004509

EQUIPMENT - BURNERS

GAS PRESSURE JET BURNERS HIGH OUTPUT

G 40 S From 205 to 1030 kW



Modulating gas burners tested and preset in operation

- Fitted to operate on natural gases, 20 mbar (300 mbar with pressure regulator option)
- Low pollutant emissions:
 - NOx from 127 to 160 mg/kWh for G43-1S and G 43-2S
 - NOx from 143 to 163 mg/kWh for G 43-3S
- Burners matching De Dietrich boilers GT 430 and GT 530:
 - for fully modulated operation on boilers with DIEMATIC-m3 an K3 control panel

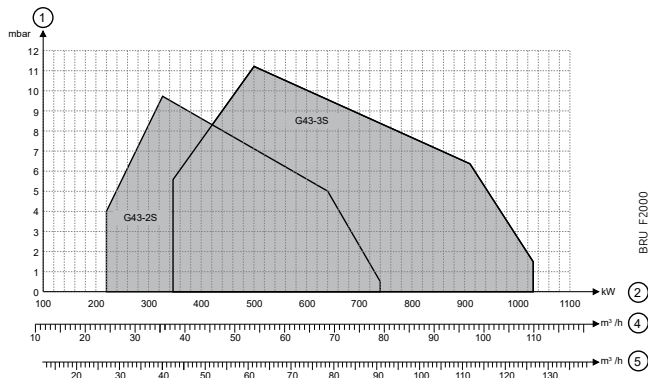
- for operation at 2 progressive stages on boilers with standard or B3 control panel
- Burners that can be fitted on boilers of all brands
- Combustion head long
- Safe, performance efficient operation thanks to a powerful aeraulic system DUO-PRESS
- Connection through a pre-wired plug to European standard
- Sliding flange
- Availability of different pre-wired gas train
- Packaging: 2 packages

N° CE 0085BL0312

OPTIONS: see following pages

FIRING RATES

At an altitude of 400m and at 20°C:
 Low calorific value :- natural gas H: 9,45 kWh/m³
 - natural gas L: 8,125 kWh/m³
 Gas flow at 15°C, 1013 mbar



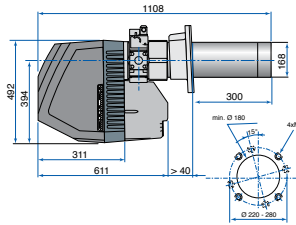
- ① Combustion chamber pressure
- ② Burner output
- ④ Flow on natural gas H
- ⑤ Flow on natural gas L

IMPORTANT

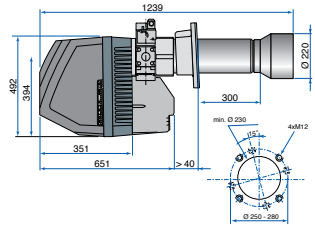
- The burner settings should be done by the fitter, according to the specific local installation conditions.
- The burner output should be adapted to the boiler, bearing in mind its effective useful efficiency.

MAIN DIMENSIONS (mm and inches)

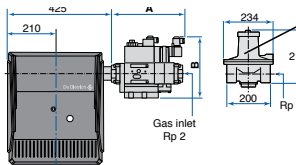
G 43-2S



G 43-3S



G 43-2S and G 43-3S



GDJ50 pressure regulator for operating at 300 mbar
 This will be located at a minimum distance of 50 cm upstream from the gas train.

G 40 with DMV VEF gas train	415	420	425
A	310	310	270
B	250	285	380

Choice of gas train, depending on: the nature and pressure of the gas supply, the pressure in the boiler combustion chamber, the maximum burner output required.

Combustion chamber pressure (mbar)	Maximum burner output (kW)							Nature and pressure of supply gas (mbar)	Gas train type MB-VEF ...
	0	1	2	3	4	5	6		
Burner type	720	700	675	655	640	610	585		415
G 43-2S (220 to 720 kW)	720	710	690	675	660	640	590	G20 - 20	420
	720	710	690	675	660	640	590		425
	725	700	675	650	625	600	575	G20 - 300	415+GDJ 50
	725	700	675	650	625	600	575		415
G 43-3S (340 to 1030 kW)	880	865	850	800	775	745	715	G20 - 20	420
	980	955	925	900	850	825	795		425
	680	660	640	620	605	590	570	G20 - 300	415+GDJ 50

MODEL

		G 43-2S	G 43-3S
Burner output	kW	220 to 720	345 to 1030
Min./Max. pre-set (boiler input)	kW	315-550	410-695
Power supply		three-phase	three-phase
Min./Max. flow on natural gas H (1)	m ³ /h	23.3 to 76.2	36.5 to 109.0
Pressure on natural gas H	mbar	1.3-11.9	1.3-11.1
Min./Max. preset gas flow on natural gas H	m ³ /h	33.3-58.2	43.4-73.5
Matching boilers		CA430/530	CA430/530
	GT	430-12, 530-9, 530-10	430-13 to 430-14, 530-11 to 530-16
		500	600, 800, 900 (300 mbar)
Noise level at 1 m	dB(A)	70	79
Nominal motor power at 2850 rpm (2)	W	1100	2200
Net weight	kg	48.5	55.5

(1) 15°C-1013 mbar. (2) Plan a separate power supply for the motors of the burners > 450 kW

MODEL

Ref.

G 43-2S
88027171

G 43-3S
88027172

MB VEF 415
100019540

MB VEF 420
100019542

GAS TRAIN (1)
MB VEF 425
100019543

PRESSURE REGULATOR
GDJ50
88027177

(1) The choice of the gas train (and possibly the pressure regulator) will depend on the type of gas used and its supply pressure, and the maximum output desired. See table above.

OPTIONS

FOR FUEL-OIL BURNERS M... AND GAS BURNERS G...

OPTIONS FOR FUEL-OIL BURNERS

ACCESSORIES

	PACKAGE	REF.
Front counter plate for M 300	-	602519
7-pin male connector (1)	-	95317395
4-pin male connector (1)	-	95317384
Gas valve kit G 1/2"	-	7724963
External relais kit for solenoid valve	-	7724964

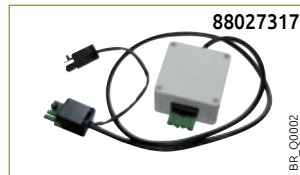
(1) to be ordered at the spare parts department

OPTIONS FOR GAS BURNERS

ACCESSORIES

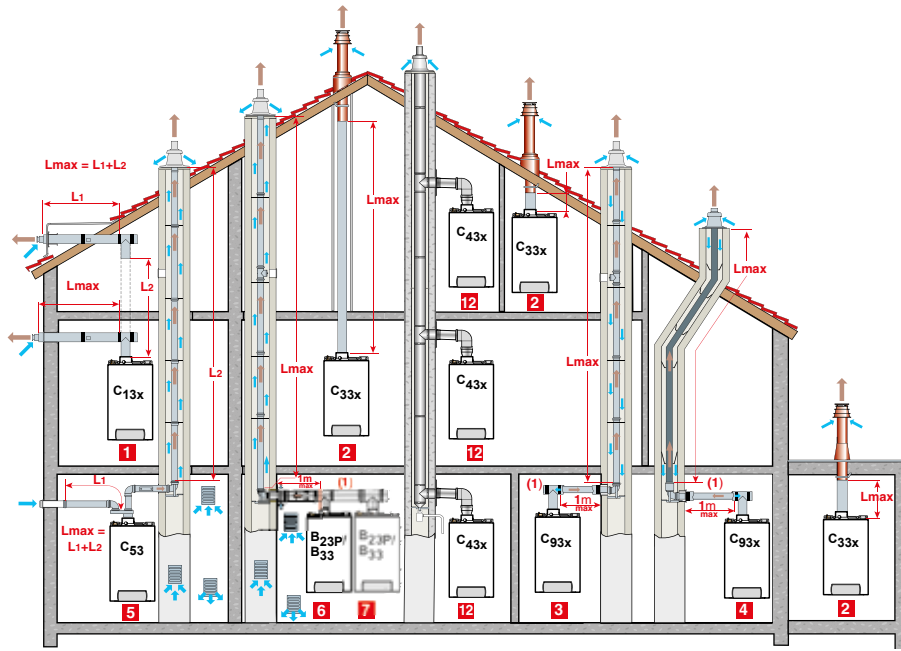
	PACKAGE	REF.
Butane/propane conversion kit for G 200 N (propane)	-	200001978
Leak proofing controller VPS 504 (G 300 N, G 40)	-	88027302
RWF 55 regulator (with mounting bracket) (G 300 N, G 40)	MW1	7626036
7-pin male connector (G 300 N) (1)	-	95317395
4-pin male connector (G 300 N) (1)	-	95317384
Front counter plate (G 300 N)	-	602524
Kit for operating 2-stage burner (with 2-point thermostat) (G 40)	-	88027317
Supporting trolley G 40	-	105627

(1) to be ordered at the spare parts department





EQUIPMENT - FLUE SYSTEMS



MOE_P0011H

TYPE OF AIR/FLUE GAS CONNECTION	Ø ... MM	VIVADENS INIDENS		ELIDENS C140				EVODENS AMC				NANEO S EMC-S				MPX				SEE PAGE
		MCR-P BIC PLUS	24, 20/24 MI, 24/28 MI, 30/35 MI	45	65	90	115	15	25	35	25/28 MI, 25/28 BIC	24	34	24/28 MI	34/39 MI	24	20/24 COMPACT	24/28 MI COMPACT	28/33 MI COMPACT	
C13x (PPS)	60/100	8	10	-	-	-	-	20	13	9	11	9	5	9	7	10	10	10	10	281
	80/125	20	25	12,5/20	-	-	-	20	20	20	20	20	20	20	20	25	25	25	25	
	110/150	-	-	-	8,5/18	6/17	5/13	-	-	-	-	-	-	-	-	-	-	-	-	
C33x (PPS)	60/100	8	10	-	-	-	-	25	13	9	11	9	5	9	8	10	10	10	10	282
	80/125	20	25	15/20	-	-	-	20	20	20	20	20	20	20	20	25	25	25	25	
	110/150	-	-	-	8/18	5,5/17	5/13	-	-	-	-	-	-	-	-	-	-	-	-	
C93x (PPS) (rigid)	60/100 60	-	-	-	-	-	-	15	8,1	2,8	9	-	-	-	-	-	-	-	-	283
	60/100 80	20	-	-	-	-	-	9,9	20	18	20	-	-	-	20	-	-	-	-	
	80/125 80	-	25	21,5/21,5	-	-	-	-	-	20	-	20	20	20	-	20	20	20	20	
	80/125 110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	110/150 110	-	-	-	29	24	19	-	-	-	-	-	-	-	-	-	-	-	-	
C93x (PPS) (flex)	80/125 80	19	25	15	-	-	-	11,1	20	20	20	20	20	20	19	20	20	20	20	284
	110/150 110	-	-	-	20	17	14	-	-	-	-	-	-	-	-	-	-	-	-	
C53 (Allu/PPS)	60/100 to 2 x 60	-	-	-	-	-	-	-	-	-	-	6	5	9	-	-	-	-	-	285
	60/100 to 2 x 80	40	80	-	-	-	-	40	40	32	40	35	28	40	40	15 + 65	15 + 65	15 + 65	15 + 65	
B23P/B33 (PPS)	80/125 to 2 x 80	-	-	24/29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	286
	80 (rigid)	37	65	32/39	-	-	-	40	40	40	40	40	40	40	37	20	20	20	20	
	110 (rigid)	-	-	-	40	40	39/38	-	-	-	-	-	-	-	-	-	-	-	-	
C43x	80 (flex) (1)	27	65	24	-	-	-	40	40	28	40	40	40	40	27	20	20	20	20	286
	110 (flex) (1)	-	-	-	32	30	28	-	-	-	-	-	-	-	-	-	-	-	-	
C43x	For dimensioning such a system, consult the collective flue system provider																		288	

(1) Ⓞ: Max. height in the flue pipe from the support elbow to the outlet must not exceed 25 m for flex PPS. In case of higher lengths, holding collars must be added by slices of 25 m.

Our gas-boilers have been designed, tested and approved using the air/flue gas pipes proposed in our catalogue, pursuant to the requirements of the prevailing NF EN 483 and XPD 35-430 standards (up to 85 kW). We guarantee the safety and correct operation of our boilers when they are installed with the approved flue systems and under the conditions recommended in our technical documentation.

EQUIPMENT - FLUE SYSTEMS

FOR MPX, ELIDENS, EVODENS PRO

CLASSIFICATION

- 1** Classification C_{13x}: Air/flue gas connection through separate pipes to a concentric horizontal air/flue gas terminal (so-called forced flue)
- 2** Classification C_{33x}: Air/flue gas connection through separate pipes to a concentric vertical air/flue gas terminal (roof outlet)
- 3** Classification C_{93x} (newly C_{93x}): Air/flue gas connection using concentric pipes in the boiler room and single pipes in the chimney (combustive air in counter current in the chimney)
or
- 4** Air/flue gas connection using concentric pipes in the boiler room and single "flex" pipes in the chimney (combustive air in counter current in the chimney)
- 5** Classification C₅₃: Separate air and flue gas connection using a bi-flow adapter and single pipes (combustive air taken from outside)
- 6** Classification B_{23p}/B₃₃: Connection to a chimney (combustive air taken from the boiler room).
- 7** Classification B_{23p}: for cascade installations
- 12** Classification C_{43x}: Connection to a collective flue system

EQUIPMENT - FLUE SYSTEMS

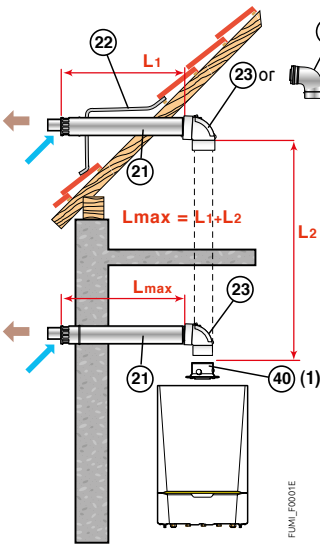
FOR **MODULENS G[®]**, **TWINEO**, **ELIDENS**, **VIVADENS BIC**, **INIDENS**, **EVODENS**, **MPX**, **EVODENS PRO**, **NANEO S**

1 Classification C_{13x} - Concentric horizontal forced flue (connection to an external wall or a roof outlet)

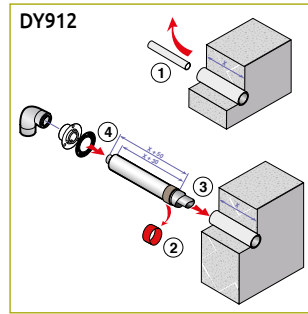
L_{max} (m)

Ø 60/100 mm Ø 80/125 mm Ø 110/150 mm

	Ø 60/100 mm	Ø 80/125 mm	Ø 110/150 mm
MCR-P 24/28 BIC PLUS	8	20	-
MPX...	10	25	-
AMC 45, C140-45	-	16	-
AMC 65, C140-65	-	-	9
AMC 90, C140-90	-	-	8
AMC 115, C140-115	-	-	5.9
AMC 15, AGC 15	12	12.3	-
AMC 25	3.5	20	-
AMC 35, AGC 35	3.5	17.6	-
AMC 25/28 MI, AMC 25/28 BIC, AGC 25, EGC 25	4.2	20	-
EMC-S 24, PMC-S 24	9	20	-
EMC-S 34, PMC-S 34	5	20	-
EMC-S 24/28 MI, PMC-S 24/28 MI	9	20	-
EMC-S 30/35 MI, PMC-S 30/35 MI	5	20	-
EMC-S 34/39 MI, PMC-S 34/39 MI	5	20	-
Inidens 24, Inidens 24/28 MI	10	20	-
Inidens 20/24, Inidens 30/35 MI	10	25	-



Solution for renovation project: ideal when replacing an existing boiler with a condensing boiler



Boiler connected to a horizontal air/flue Ø 80/125 mm (DY882) + adapter (HR38)

NOTA: For Twineo, Vivadens, Inidens and Naneo S, the inspection T ② is replaced by a 90° elbow: the installation of an inspection sleeve between the terminal and the elbow is recommended (1) or location ③ where appropriate

PPS FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR CONNECTION TO A HORIZONTAL AIR/FLUE GAS TERMINAL

BOILER TYPE	CONNECTION Ø		HORIZONTAL FORCED FLUE	ADAPTER
Naneo S Twineo EGC 25 Vivadens MCR-P PLUS BIC Inidens	Ø 60/100 mm (1)	Package n° Ref. 100008296	DY871 or DY912 (1) or 100017526	-
Elidens C140-45 Evodens Pro AMC 45	Ø 80/125 mm	Package n° Ref. 100011365	DY882 100011365	-
Elidens C140-65/90/115 Evodens Pro AMC 65/90/115	Ø 110/150 mm	Package n° Ref. 100011364	DY881 (2) 100011364	-
Evodens AMC... Modulens AGC...	Ø 60/100 mm (1)	Package n° Ref. 100013756	HR48 100013756	-
Evodens AMC... Modulens AGC... Twineo EGC...	Ø 80/125 mm	Package n° Ref. 100011365	DY882 100011365	HR38 S100465
Naneo S	Ø 80/125 mm	Package n° Ref. 100011365	DY882 100011365	HR68 S101688
MPX ...	Ø 60/100 mm	Package n° Ref. 100008296	DY871 or DY912 (1) or 100017526	-
	Ø 80/125 mm	Package n° Ref. 100011365	DY882 100011365	DY708 84887708

(1) When replacing a conventional boiler with a condensing boiler as part of a renovation project, it is possible to retain the external pipe on the existing forced flue and fit it to a new "Retrofit" forced flue Ø 60/95 mm - Package DY912, **Ref. 100017526**.
 (2) For Elidens C140-65 to 115 boilers, to increase the height (in the case of replacing an Elidens boiler with an Elidens C140 for example) we offer as an option a Ø 100/150 mm elbow (package DY930, **Ref. 77155416**) or a Ø 100/150 mm inspection elbow (package DY931 **Ref. 7715445**) to be placed directly on the flue gas outlet. In this case, the measuring sleeve supplied with Elidens C140 and the Ø 100/150 mm to Ø 110/150 mm adapter supplied with the DY881 horizontal forced flue are to be moved after the elbow.

DY881

DY882 (HR48)

HR68

HR38

DY871

DY708

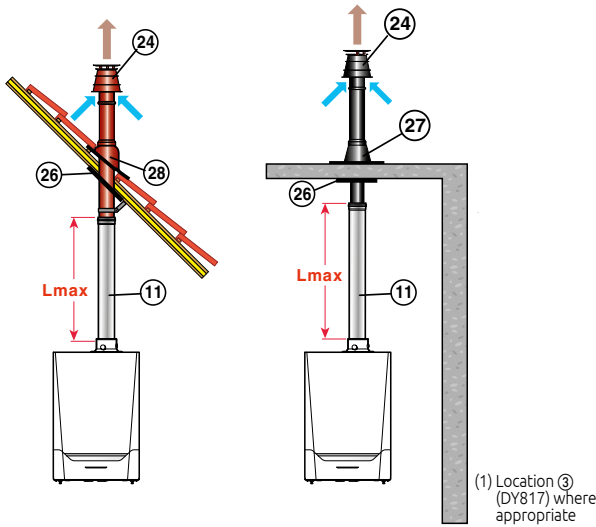
③ Adapter Ø 100/150 mm to 110/150 mm or Ø 60/100mm to Ø 80/125 mm (DY708)
 ⑧ Inspection T
 ⑪ Concentric pipe length 0.5 m
 ⑫ Elbow 90°
 ⑭ Horizontal air/flue gas terminal
 ⑮ Inspection elbow
 ⑯ Adapter Ø 80/125 mm

REFERENCE FOR THE OTHER PPS ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

FOR **MODULENS G[®]**, **TWINEO**, **ELIDENS**, **VIVADENS**, **INIDENS**, **EVODENS**, **MPX**, **EVODENS PRO**, **NANEO S**

2 Classification C_{33x} - Concentric vertical forced flue
(connection to sloping roof or flat roof)



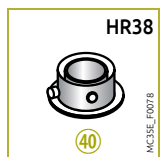
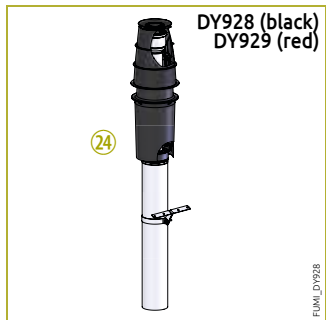
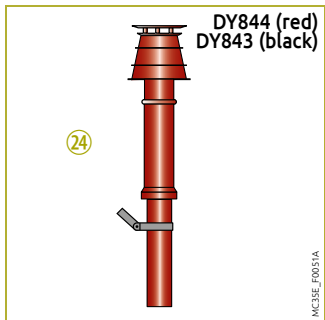
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BOILER REPRESENTED:
Boiler connected to a vertical air/flue gas terminal Ø 80/125 mm (DY843)
+ adapter (HR38)

	L _{max} (m)		
	Ø 60/100 mm	Ø 80/125 mm	Ø 110/150 mm
MCR-P 24/28 BIC PLUS	8	20	-
MPX	10	25	-
AMC 45, C140-45	-	14.5	-
AMC 65, C140-65	-	-	11.5
AMC 90, C140-90	-	-	10
AMC 115, C140-115	-	-	9.4
AMC 15, AGC 15	25	10.7	-
AMC 25	13	20	-
AMC 35, AGC 35	9	20	-
AGC 25, EGC 25, AMC 25/28 MI, AMC 25/28 BIC	11	20	-
EMC-S 24, PMC-S 24	9	20	-
EMC-S 34, PMC-S 34	5	20	-
EMC-S 24/28 MI, PMC-S 24/28 MI	9	20	-
EMC-S 30/35 MI, PMC-S 30/35 MI	5	20	-
EMC-S 34/39 MI, PMC-S 34/39 MI	5	20	-
Inidens 24, Inidens 24/28MI	10	25	-
Inidens 20/24 MI, Inidens 30/35 MI	8	25	-

PPS FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR CONNECTION TO A VERTICAL AIR/FLUE GAS TERMINAL

BOILER TYPE	CONNECTION Ø		VERTICAL AIR/FLUE GAS TERMINAL		ADAPTER	
Elidens C140-45 Evodens Pro AMC 45	Ø 80/125 mm	Package n°	DY843 (black)	or	DY844 (red)	-
		Ref.	100002732	or	100002733	-
Elidens C140-65, 90, 115 Evodens Pro AMC 65, 90, 115	Ø 110/150 mm	Package n°			DY845 (black)	DY817
		Ref.			100002734	100002357
Evodens AMC Modulens AGC Twineo EGC Vivadens MCR-P 24/28 BIC PLUS	Ø 60/100 mm	Package n°	DY928 (black)	or	DY929 (red)	-
		Ref.	7650968	or	7650969	-
Naneo S	Ø 80/125 mm	Package n°	DY843 (black)	or	DY844 (red)	HR38
		Ref.	100002732	or	100002733	S100465
Inidens	Ø 80/125 mm	Package n°	DY928 (black)	or	DY929 (red)	-
		Ref.	7650968	or	7650969	-
MPX...	Ø 60/100 mm	Package n°	DY843	or	DY844	DY708
		Ref.	10002732	or	100002733	84887708



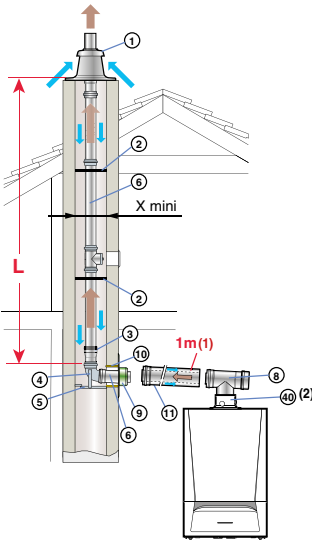
3 Adapter Ø 110/150 to 100/150 mm (DY817) or Ø 60/100mm to Ø 80/125 mm (DY708)
24 Vertical air/flue gas terminal
40 Adapter Ø 80/125 mm

REFERENCE FOR THE OTHER PPS ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

FOR **MODULENS G[®]**, **TWINEO**, **ELIDENS**, **VIVADENS BIC**, **INIDENS**, **EVODENS**, **MPX**, **EVODENS PRO**, **NANEO S**

- 3** Classification C_{93x}
 - concentric pipes in the boiler room,
 - single pipes in the chimney (combustive air in counter current)



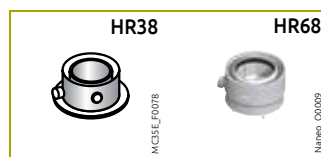
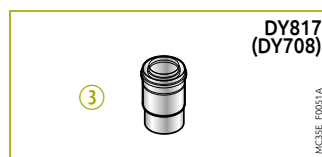
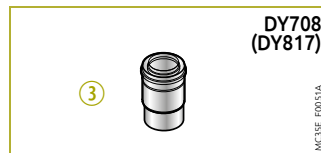
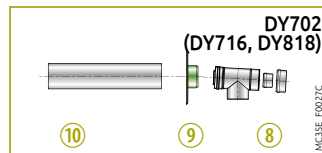
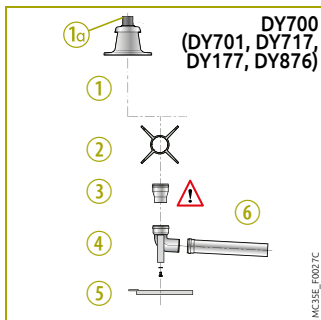
BOILER REPRESENTED:
 Boiler connected to Ø 80/125 mm in the room boiler and Ø 110 mm in the chimney
 (1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length **L_{max}** shown in the table below
 (2) Or location (3) where appropriate

	L _{max} (m)				
	IN THE BOILER ROOM (MM)		Ø 80/125		
	Ø 60/100	Ø 80	Ø 80	Ø 110	Ø 110/150
MCR-P 24/28 BIC PLUS	-	20	-	-	-
MPX...	-	-	20	-	-
AMC 45, C140-45	-	-	15	25	-
AMC 65, C140-65	-	-	-	-	16
AMC 90, C140-90	-	-	-	-	13.2
AMC 115, C140-115	-	-	-	-	10
AMC 15, AGC 15	15	9.9	-	-	-
AMC 25	8.1	20	-	-	-
AMC 35, AGC 35	2.8	18.0	20	-	-
AMC 25/28 MI, AMC 25/28 BIC, AGC 25, EGC 25	9	20	-	-	-
EMC-S 24, PMC-S 24	-	-	20	-	-
EMC-S 34, PMC-S 34	-	-	20	-	-
EMC-S 24/28 MI, PMC-S 24/28 MI	-	-	20	-	-
EMC-S 30/35 MI, PMC-S 30/35 MI	-	-	20	-	-
EMC-S 34/39 MI, PMC-S 34/39 MI	-	-	20	-	-
Inidens 24, Inidens 24/28 MI	-	-	25	-	-
Inidens 20/24 MI, Inidens 30/35 MI	-	-	25	-	-
x mini	120	140	140	160	160
Ø	140	160	160	180	180

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PPS FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR AIR/FLUE GAS CONNECTION WITH CONCENTRIC PIPES IN THE BOILER ROOM, AND SINGLE PIPES IN THE CHIMNEY

BOILER TYPE	CONNECTION Ø		BOILER CONNECTION KIT	CHIMNEY CONNECTION KIT	ADAPTER
MCR-P 24/28 BIC PLUS	Ø 60/100 mm in the boiler room	Package n°	DY702	DY701	Ø 60 to 80 mm included in DY701
	Ø 80 mm in the chimney	Ref.	84887702	84887701	-
Evodens AMC35 Modulens AGC35	Ø 60/100 mm in the boiler room	Package n°	DY702	DY701	Ø 60 to 80 mm included in DY701
	Ø 80 mm in the chimney	Ref.	84887702	84887701	-
Evodens AMC... Modulens AGC... Twineo EGC 25	Ø 80/125 mm in the boiler room	Package n°	DY716	DY717	HR38
	Ø 80 mm in the chimney	Ref.	84887716	84887717	S100465
Evodens AMC... Modulens AGC... Twineo EGC 25	Ø 60/100 mm in the boiler room	Package n°	DY702	DY700	-
	Ø 60 mm in the chimney	Ref.	84887702	84887700	-
Elidens C140-45 Evodens Pro AMC 45	Ø 60/100 mm in the boiler room	Package n°	DY702	DY701	Ø 60 to 80 mm included in DY701
	Ø 80 mm in the chimney	Ref.	84887702	84887701	-
Elidens C140-65, 90, 115 Evodens Pro AMC 65, 90, 115	Ø 80/125 mm in the boiler room	Package n°	DY716	DY717	-
	Ø 80 mm in the chimney	Ref.	84887716	84887717	-
Elidens C140-65, 90, 115 Evodens Pro AMC 65, 90, 115	Ø 80/125 mm in the boiler room	Package n°	DY716	DY876	Ø 110 to 80 mm included in DY876
	Ø 110 mm in the chimney	Ref.	84887716	100008312	-
Inidens	Ø 110/150 mm in the boiler room	Package n°	DY818	DY177	DY817
	Ø 110 mm in the chimney	Ref.	100002360	84887577	100002357
Naneo S	Ø 80/125 mm in the boiler room	Package n°	DY716	DY717	HR38
	Ø 80 mm in the chimney	Ref.	84887716	84887717	S101688
MPX...	Ø 80/125 mm in the boiler room	Package n°	DY716	DY717	DY708
	Ø 80 mm in the chimney	Ref.	84887716	84887717	84887708



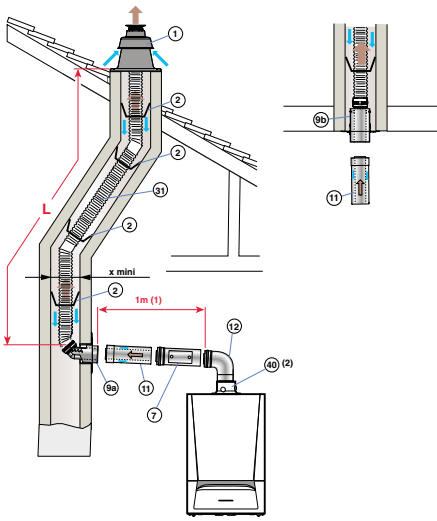
- 1 Air/flue gas terminal with flashing
- 1c Terminal tube PPS black, 0.345 m
- 2 centring stars
- 3 Adapter:
- Ø 60 on 80 mm for DY701
- Ø 80 on 110 mm for DY876
- no adapter for DY700, 717 and 177
- 4 87° elbow
- 5 Support rail
- 6 0.5 m extension kit
- 8 Inspection T
- 9 Finishing plate
- 10 0.5 m galvanised sleeve
- 11 Adapter Ø 80/125 mm

REFERENCE FOR THE OTHER PPS ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

FOR **MODULENS G[®]**, **TWINEO**, **ELIDENS**, **VIVADENS BIC**, **INIDENS**, **EVODENS**, **MPX**, **EVODENS PRO**, **NANEO S**

- 4** Classification C_{93x}
 - concentric pipes in the boiler room,
 - "flex" pipes in the chimney (combustive air in counter current)



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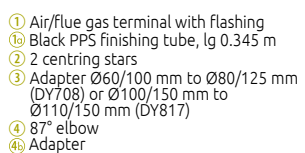
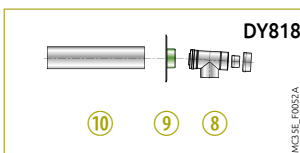
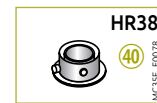
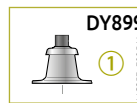
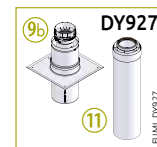
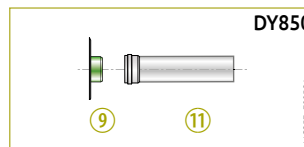
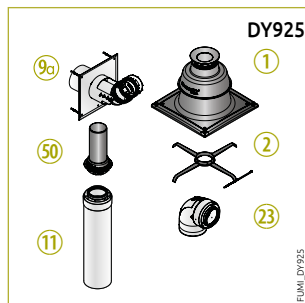
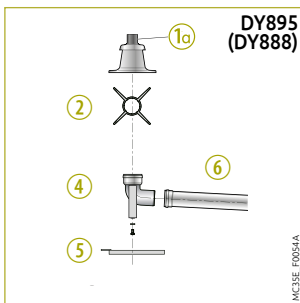
BOILER REPRESENTED:
 Boiler connected to Ø 80/125 mm in the room boiler and Ø 110 mm in the chimney
 (1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length
 L_{max} shown in the table below
 (2) Or location ③ where appropriate

	L _{max} (m)		
	IN THE BOILER ROOM IN THE CHIMNEY	Ø 80/125 mm Ø 80 mm	Ø 110/150 mm Ø 110 mm
MCR-P 24/28 BIC PLUS		19	-
MPX...		20	-
AMC 45, C140-45		12	-
AMC 65, C140-65		-	16.5
AMC 90, C140-90		-	13.5
AMC 115, C140-115		-	9.4
AMC 15, AGC 15		11.1	-
AMC 25		20	-
AMC 35, AGC 35		20	-
AMC 25/28 MI, AMC 25/28 BIC, AGC 25, EGC 25		20	-
EMC-S 24, PMC-S 24		20	-
EMC-S 34, PMC-S 34		20	-
EMC-S 24/28 MI, PMC-S 24/28 MI		20	-
EMC-S 30/35 MI, PMC-S 30/35 MI		20	-
EMC-S 34/39 MI, PMC-S 34/39 MI		20	-
Inidens 24, Inidens 24/28 MI		25	-
Inidens 20/24 MI, Inidens 30/35 MI		25	-
x mini	⊠ mm	140	170
	Ø mm	160	190

PPS FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR AIR/FLUE GAS CONNECTION WITH CONCENTRIC PIPES IN CONDENSATES COLLECTOR THE BOILER ROOM, AND SINGLE "FLEX" PIPES IN THE CHIMNEY

BOILER TYPE	CONNECTION Ø		BOILER + CHIMNEY CONNECTION KITS	ADAPTER	FLEX PIPE
Modulens AGC... Twineo EGC 25 Vivadens MCR-P 24/28 BIC PLUS EVODENS AMC	- Ø 80/125 mm in the boiler room - Ø 80 mm (flex) in the chimney	Quick Kit	Package n° DY925 (perpendicular) or DY927 + DY899 (telescopic under chimney) Ref. 7650958 or 7650964 + 100015329	HR38 Ø 80/125 mm	DY897 (lg 12,5 m) (1)
Elidens C140-45 Evodens Pro AMC 45	- Ø 80/125 mm in the boiler room - Ø 80 mm (flex) in the chimney	Quick Kit	Package n° DY925 (perpendicular) or DY927 + DY899 (telescopic under chimney) Ref. 7650958 or 7650964 + 100015329	-	DY897 (lg 12,5 m) (1)
Elidens C140-65, 90, 115 Evodens Pro AMC 65, 90, 115	- Ø 110/150 mm in the boiler room - Ø 110 mm in the chimney		Package n° DY818 + DY888 Ref. 100002360 + 100015287	DY817 (Ø 100/150 to 110/150)	DY889 (lg 15 m) (1)
Naneo S	- Ø 80/125 mm in the boiler room - Ø 80 mm (flex) in the chimney	Quick Kit	Package n° DY925 (perpendicular) or DY927 + DY899 (telescopic under chimney) Ref. 7650958 or 7650964 + 100015329	HR68 Ø 80/125 mm	DY897 (lg 12,5 m) (1)
Inidens	- Ø 80/125 mm in boiler room - Ø 80 mm (flex) in the chimney	Quick Kit	Package n° DY925 (perpendicular) or DY927 + DY899 (telescopic under chimney) Ref. 7650958 or 7650964 + 100015329	Ø 80/125 mm	DY897 (lg 12,5 m) (1)
MPX ...	- Ø 80/125 mm in the boiler room - Ø 80 mm (flex) in the chimney		Package n° DY925 (perpendicular) or DY927 + DY899 (telescopic under chimney) Ref. 7650958 or 7650964 + 100015329	DY708	DY897 (lg 12,5 m)

(1) other lengths of flex pipes available: see following pages



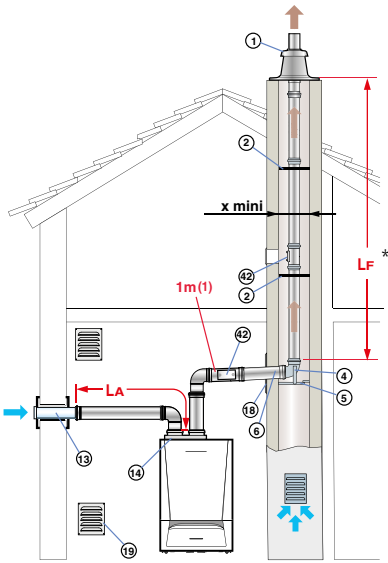
- ⑤ Support rail
- ⑥ 0.5 m extension kit
- ⑧ Inspection T
- ⑨ Finishing plate
- ⑨a Finishing plate Ø 80/125 mm (with elbow) for flex pipe
- ⑨b Finishing plate Ø 80/125 mm (without elbow) for flex pipe
- ⑩ 0.5 m galvanised sleeve
- ⑪ 0.5 m extension kit
- ⑫ 87° elbow
- ⑬ Concentric inspection elbow
- ⑭ Adapter Ø 80/125 mm
- ⑮ Flue gas terminal Ø 80 mm

REFERENCE FOR THE OTHER PPS ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

FOR **MODULENS G[®]**, **TWINEO**, **ELIDENS**, **VIVADENS BIC**, **INIDENS**, **EVODENS**, **MPX**, **EVODENS PRO**, **NANEO S**

5 Classification C₅₃ - separate air and flue gas pipes with bi-flow adapter (combustive air taken from outside)



(1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length L_{max} shown in the table below

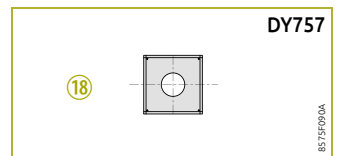
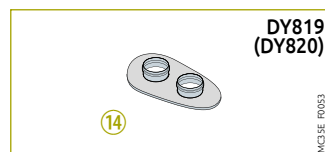
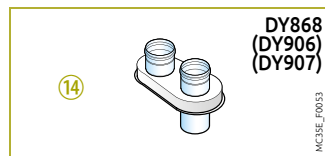
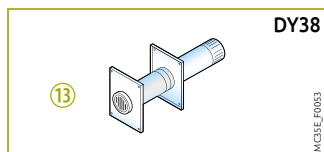
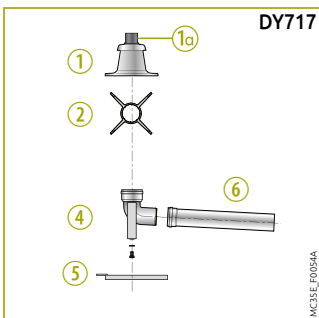
* L_F MAX = 15 m

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	(L _A +L _F) MAX (m)		
	WITH BI-FLOW ADAPTER Ø 60/100 mm to 2x80 mm	Ø 80/125 mm to 2x80 mm	Ø 100/150 mm to 2x100 mm
MCR-P 24/28 BIC PLUS	40	-	-
MPX	80 *	-	-
AMC 45, C140-45	-	20.5	-
AMC 65, C140-65	-	-	23
AMC 90, C140-90	-	-	17.5
AMC 115, C140-115	-	-	16
AMC 15, AGC 15	40	-	-
AMC 25	40	-	-
AMC 35, AGC 35	32	-	-
AMC 25/28 MI, AMC 25/28 BIC, AGC 25, EGC 25	40	-	-
EMC-S 24, PMC-S 24	35	-	-
EMC-S 34, PMC-S 34	28	-	-
EMC-S 24/28 MI, PMC-S 24/28 MI	40	-	-
EMC-S 30/35 MI, PMC-S 30/35 MI	28	-	-
EMC-S 34/39 MI, PMC-S 34/39 MI	26	-	-
Inidens 24, Inidens 24/28 MI	40**	-	-
Inidens 20/24 MI, Inidens 30/35 MI	40**	-	-
x mini	140	140	160
Ø	160	160	180

PPS FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR CONNECTION WITH SEPARATE AIR AND FLUE GAS PIPES (BI-FLOW)

BOILER TYPE	CONNECTION Ø		BI-FLOW ADAPTER	EXTERNAL AIR INLET	CHIMNEY CONNECTION KIT	FINISHING PLATE
Evodens AMC... Modulens AGC... Twineo EGC 25 Vivadens MCR 24/28 BIC PLUS	- Ø 60/100 mm to 2 x 80 mm	Package n° Ref.	DY868 100005825	DY38 84887438	DY717 84887717	DY757 84887757
Elidens C140-45	- Ø 80/125 mm to 2 x 80 mm	Package n° Ref.	DY819 100002361	DY38 84887438	DY717 84887717	DY757 84887757
Evodens Pro AMC 45	- Ø 80/125 mm to 2 x 80 mm	Package n° Ref.	DY906 S100762	DY38 84887438	DY717 84887717	DY757 84887757
Naneo S	- Ø 60/100 mm to 2 x 80 mm	Package n° Ref.	HR70 S101711	DY38 84887438	DY717 84887717	DY757 84887757
Inidens	- Ø 60/100 mm to 80/60 mm	Package n° Ref.	— 7220861	DY38 84887438	— —	Ø 80 su Ø 60 7683812
	- Ø 60/100 mm to 2 x 80 mm	Package n° Ref.	— 7220861	DY38 84887438	DY717 84887717	DY757 84887757
MPX...	- Ø 60/100 mm on 2 x Ø 80 mm	Package n° Ref.	DY723 84887723	DY38 84887438	DY717 84887717	DY757 84887757



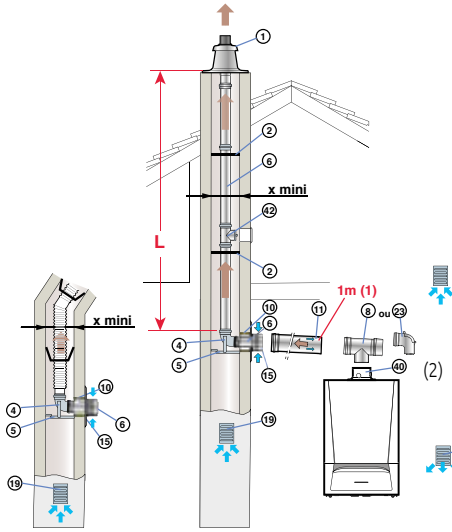
- ① Air/flue gas terminal with flashing
- ② Terminal tube PPS black, 0.345 m
- ③ 2 centring stars
- ④ 87° elbow
- ⑤ Support rail
- ⑥ 0.5 m extension kit
- ⑦ External air inlet
- ⑧ Bi-flow adapter
- ⑨ Finishing plate

REFERENCE FOR THE OTHER ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

FOR **MODULENS G[®]**, **TWINEO**, **ELIDENS**, **VIVADENS BIC**, **INIDENS**, **EVODENS**, **MPX**, **EVODENS PRO**, **NANEO S**

6 Classification B_{23p}/B₃₃ - connection to a chimney (combustive air taken from the boiler room)



(1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length L_{max} shown in the table below
(2) Or location ③ where appropriate

FLUJL_F0046C

	L_{max} (m)			
	Ø 80 mm RIGID	Ø 110 mm RIGID	Ø 80 mm FLEX	Ø 100 mm FLEX
MCR-P 24/28 BIC PLUS	37	-	27	-
MPX	20	-	20	-
AMC 45, C140-45	23.5	-	21	-
AMC 65, C140-65	-	40	-	29.5 *
AMC 90, C140-90	-	40	-	24
AMC 115, C140-115	-	40	-	17.5
AMC 15, AGC 15	40	-	40 *	-
AMC 25	40	-	40 *	-
AMC 35, AGC 35	40	-	28	-
AMC 25/28 MI, AMC 25/28 BIC, AGC 25, EGC 25	40	-	40 *	-
EMC-S 24, PMC-S 24	40	-	40 *	-
EMC-S 34, PMC-S 34	40	-	40	-
EMC-S 24/28 MI, PMC-S 24/28 MI	40	-	40 *	-
EMC-S 30/35 MI, PMC-S 30/35 MI	40	-	40 *	-
EMC-S 34/39 MI, PMC-S 34/39 MI	38	-	38	-
Inidens 24, Inidens 24/28 MI	65	-	65	-
Inidens 20/24 MI, Inidens 30/35 MI	65	-	65	-
x mini	140	170	140	170
	160	190	160	190

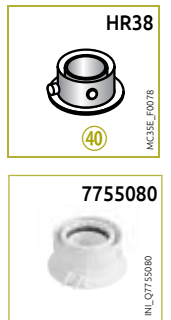
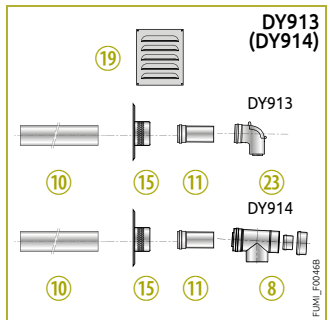
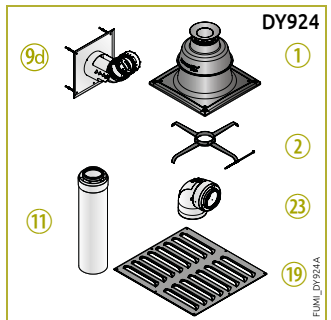
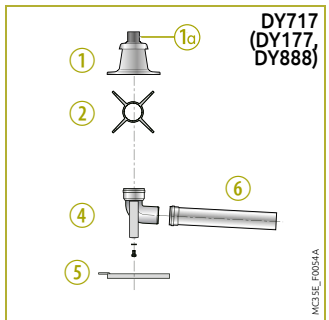
NOTA: For the hybrid HP see the boiler concerned.

* ⚠: Max. height in the flue pipe from the support elbow to the outlet mustn't exceed: 25 m for flex PPS. In case of higher lengths, holding collars must be added by slices of 25 m.

PPS FLUE SYSTEMS ACCESSORIES NEED AS MINIMUM FOR CONNECTION TO A CHIMNEY

BOILER TYPE	CONNECTION Ø		BOILER CONNECTION KIT	CHIMNEY CONNECTION KIT	ADAPTER	FLEX PIPE
Evodens AMC... Modulens AGC... Twineo EGC 25 Vivadens MCR6P 24/28 BIC PLUS	- Ø 80/125 mm in the boiler room - Ø 80 mm (rigid) in the chimney	Package n° Ref.	DY913 100017527	DY717 84887717	HR38 S100465	- -
		Quick Package n° Kit Ref.	DY924 7650956		HR38 S100465	DY897 (lg 12,5 m) (1) 100015327
Elidens C140-45 Evodens Pro AMC 45	- Ø 80/125 mm in the boiler room - Ø 80 mm (rigid) in the chimney	Package n° Ref.	DY913 100017527	DY717 84887717	- -	- -
	- Ø 80/125 mm in the boiler room - Ø 80 mm (flex) in the chimney	Quick Package n° Kit Ref.	DY924 7650956		- -	DY897 (lg 12,5 m) (1) 100015327
Elidens C140-65, 90, 115	- Ø 110/150 mm in the boiler room - Ø 110 mm (rigid) in the chimney	Package n° Ref.	DY914 100017529	DY177 84887577	DY817 (Ø 100/150 on 110/150) 100002357	- -
Evodens Pro AMC 65, 90, 115	- Ø 110/150 mm in the boiler room - Ø 110 mm (flex) in the chimney	Quick Package n° Kit Ref.	DY914 100017529	DY888 100015287	DY817 (Ø 100/150 on 110/150) 100002357	DY889 (lg 15 m) (1) 100015288
Inidens	- Ø 80/125 mm in the boiler room - Ø 80 mm (rigid) in the chimney	Package n° Ref.	DY913 100017527	DY717 84887717	- 7755080	- -
	- Ø 80/125 mm in the boiler room - Ø 80 mm (flex) in the chimney	Quick Package n° Kit Ref.	DY924 7650956		- 7755080	DY897 (lg 12,5 m) (1) 100015327
Naneo S	- Ø 80/125 mm in the boiler room - Ø 80 mm (rigid) in the chimney	Package n° Ref.	DY913 100017527	DY717 84887717	HR68 S101688	- -
	- Ø 80/125 mm in the boiler room - Ø 80 mm (flex) in the chimney	Quick Package n° Kit Ref.	DY924 7650956		HR68 S101688	DY897 (lg 12,5 m) (1) 100015327
MPX...	- Ø 80/125 mm in the boiler room - Ø 80 mm (rigid) in the chimney	Package n° Ref.	DY913 100017527	DY717 84887717	DY708 84887708	- -
	- Ø 80/125 mm in the boiler room - Ø 80 mm (flex) in the chimney	Package n° Ref.	DY924 7650956		DY708 84887708	DY897 (lg 12,5 m) (1) 100015327

(1) other lengths of flex pipes available: see following pages



- ① Air/flue gas terminal with flashing
- ② 2 centring stars
- ④ 87° elbow
- ⑤ Support rail
- ⑥ 0.5 m extension kit
- ⑨ Finishing plate Ø 80 mm (with elbow) for flex pipe
- ⑩ 0.5 m sleeve
- ⑪ 0.5 m concentric extension

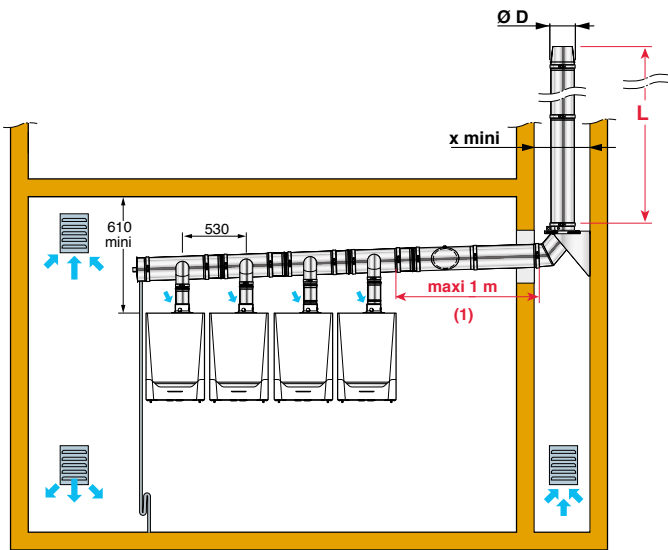
- ⑬ Air inlet grate
- ⑰ Ventilation screen 250 x 300 mm
- ⑳ Inspection elbow (only for DY913)
- ㉑ Adapter Ø 80/125 mm

REFERENCE FOR THE OTHER ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

FOR EVDENS PRO AMC 45, 65, 90 AND 115

7 Classification B_{23p} - for installation in cascade



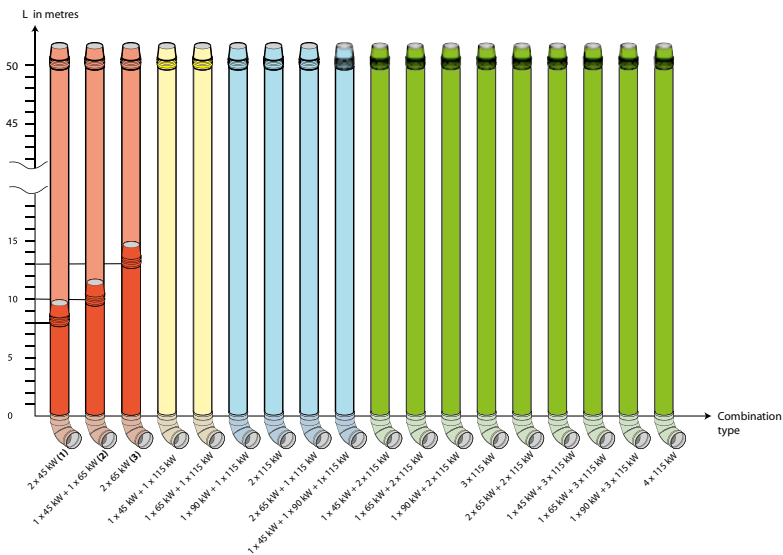
x mini	$\frac{\square}{\text{mm}}$	D + 60
	$\frac{\text{Ø}}{\text{mm}}$	D + 80

MCA_0075

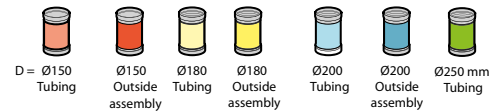
(1) Max length taken into account for dimensioning; for different lengths a new calculation is necessary.

MAXIMUM ADMISSIBLE LENGTH L IN M DEPENDING ON THE Ø OF THE PIPE D (IN MM) FOR VARIOUS "CASCADE" COMBINATIONS

- "cascade" combinations with boilers in wall-hung or floor-standing alignment

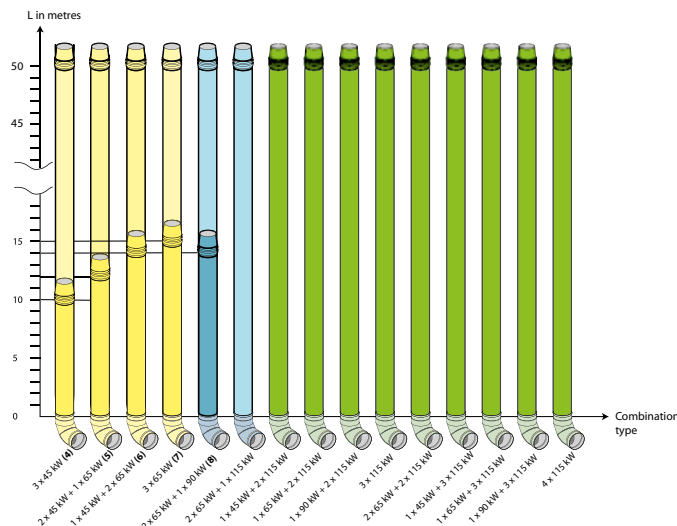


MCS3E_F0062



In case of outside assembly, the max. height to permit boiler operation is:
 (1): 7.90 m (2): 10.20 m (3): 13.10 m (4): 9.80 m
 (5): 11.70 m (6): 14.00 m (7): 16.40 m (8): 14.30 m

- "cascade" combinations with boilers fitted back to back



MCS3E_F0063A

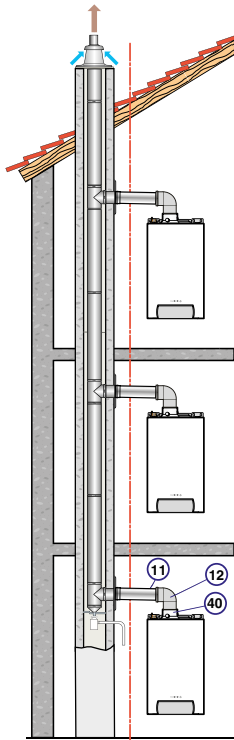
NOTA: These lengths are given as a rough guide. De Dietrich's liability may in no event be invoked. For different assembly Classifications, please consult us for a specific calculation.

- Evidens Pro AMC 45/65/90/115 boilers, operating at 80/60°C
- Overpressure on the boiler outlet less than 50 Pa

EQUIPMENT - FLUE SYSTEMS

FOR **MODULENS G[®]**, **TWINEO**, **NANEO S**, **EVODENS** AND **MPX** ONLY

12 Classification C_{43x} - for connecting to a collective flue system of a forced flue boiler

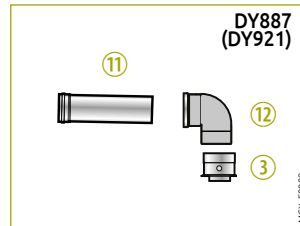


FLUX_F00288

PPS FLUE SYSTEMS ACCESSORIES

NEED AS A MINIMUM FOR CONNECTION TO A COLLECTIVE FLUE SYSTEM CONDUIT

Evodens AMC... Modulens AGC... Twineo EGC 25	Boiler connection kit for a collective conduit	Package n° Ref.	DY887 100014000
Vivadens MCR 24/28 BIC PLUS and (only on natural gas)	Boiler connection kit for a collective conduit Boiler conversion kit for incorporation of an adrawback valve	Package n° Ref.	DY887 DY884 100011367
Naneo S	Boiler connection kit for a collective conduit	Package n° Ref.	DY921 100020019
MPX	Boiler connection kit for a collective conduit with reduction Ø 60/100 mm on Ø 80/125 mm	Package n° Ref.	HX103 7671879



DY887
(DY921)

11

12

3

MCK_F0088



HX103

MPX_00009



DY884

MCK_F0088

- ③ Adapter Ø 60/100mm to 80/125 mm
- ⑪ 0.5 m extension kit
- ⑫ 90° elbow Ø 80/125 mm

NOTE: it is possible to put boilers with differing outputs on the same conduit, consult the conduit manufacturer.

TO DIMENSION THE SYSTEM CONTACT THE SUPPLIER OF A COLLECTIVE CONDUIT

Examples of a collective conduit system sizing inside a building for NANEO - PMC-S PLUS

NUMBER OF GAS APPLIANCES CONNECTABLE

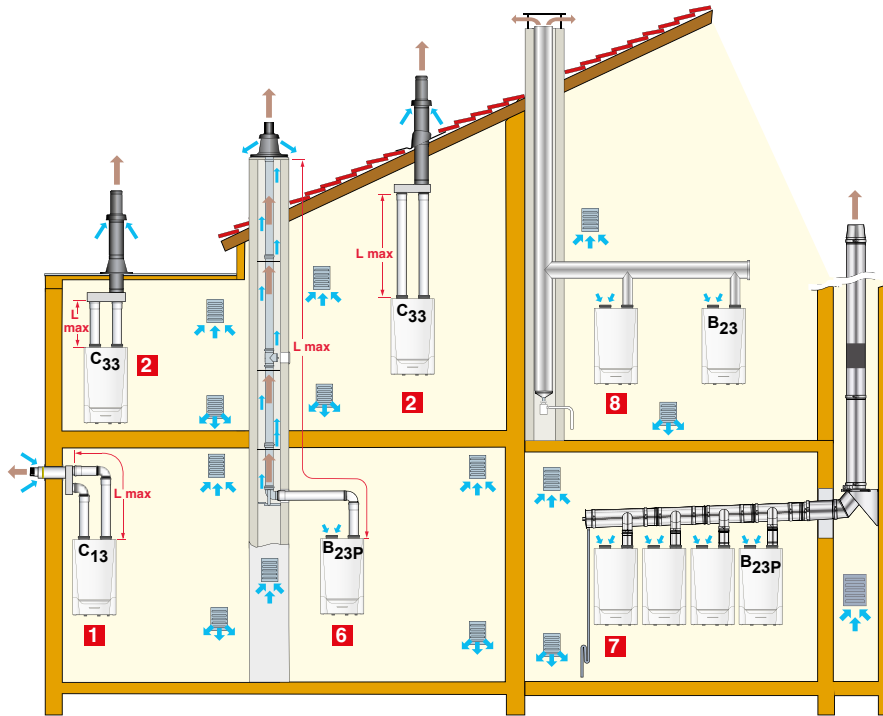
NOMINAL DIAMETER OF THE INTERNAL/EXTERNAL PIPES		BOILER TYPE EMC-S			
		24	24/28 MI	30/35 MI	34/39 MI
100/150	- straight	3	3	2	2
	- curved	3	3	2	2
130/200	- straight	6	6	5	4
	- curved	6	5	4	4
180/250	- straight	10	10	8	7
	- curved	9	9	7	7
230/350	- straight	15	15	15	15
	- curved	15	15	15	14

Calculations made with: - 2.7 metres floor height.
- 2 metres of Ø 80/125 mm connection conduit and two 90° elbows.

Calculations made according to EN 15287 standard with: - 2.7 metres floor height.
- 2 metres of Ø 80/125 connection conduit and two 90° elbows.
- a collective conduit pipe without deviation

EQUIPMENT - FLUE SYSTEMS

FOR INNOVENS PRO MCA 160



MCA_F1000

CLASSIFICATION

- 1** Classification C_{13(x)}: Air/flue gas connection through separate pipes to a concentric horizontal air/flue gas terminal (so-called forced flue)
- 2** Classification C_{33(x)}: Air/flue gas connection through separate pipes to a concentric vertical air/flue gas terminal (roof outlet)
- 6** Classification B_{23p}/B₃₃: Connection to a chimney (combustive air taken from the boiler room).
- 7** Classification B_{23p}: For cascade installations
- 8** Classification B₂₃: Connection of a single boiler or of boilers in cascade to a flue gas pipe in depression, insensitive to humidity (combustion air taken in the boiler room)

TABLE OF MAXIMUM AIR/FLUE GAS PIPE LENGTHS ADMISSIBLE

TYPE OF AIR/FLUE GAS CONNECTION		L _{MAX} : MAXIMUM LENGTH OF THE CONNECTING PIPES IN M. INNOVENS PRO MCA 160		SEE PAGES
Separated pipes connected to a horizontal air/flue gas terminal	C ₁₃	Ø 150 mm (Alu)	20	290
		Ø 160 mm (PPS)	20	
Separated pipes connected to a vertical air/flue gas terminal	C ₃₃	Ø 150 mm (Alu)	20	290
		Ø 160 mm (PPS)	20	
In the chimney (combustive air taken from the premises)	B _{23P}	Ø 150 mm (Alu)	40	291
		Ø 160 mm (PPS)	50	

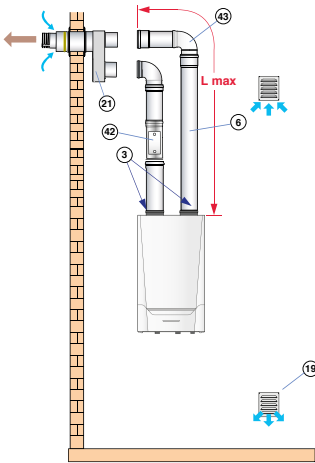
NOTA: L_{MAX} is measured by adding the lengths of the straight air/flue gas pipes and the equivalent lengths of the other sections:

- Ø 150 mm (PPS): 1 elbow 87° = 6.4 m, 1 elbow 45° = 1.7 m
1 inspection T = 6.4 m, 1 straight inspection = 0.5 m
- Ø 160 mm (PPS): 1 elbow 87° = 5 m, 1 elbow 45° = 1.4 m
1 inspection elbow = 5 m, 1 straight inspection = 0.9 m

EQUIPMENT - FLUE SYSTEMS

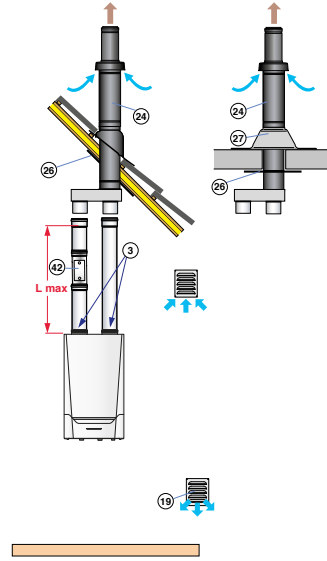
FOR INNOVENS PRO MCA 160

1 Classification C_{13(x)} - Concentric horizontal forced flue



C₁₃: L_{MAX} = 20 m

2 Classification C_{33(x)} - Concentric horizontal forced flue



C₃₃: L_{MAX} = 20 m

PPS OR ALU FLUE SYSTEMS ACCESSORIES

NEED AS A MINIMUM FOR CONNECTION
TO A HORIZONTAL FORCED FLUE

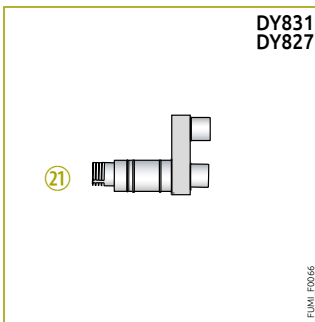
CONNECTION Ø		VERTICAL AIR/ FLUE GAS TERMINAL	ADAPTER KIT TO CONCENTRIC OUTLET	ADAPTER
Ø 150/220 mm (Alu)	Package n°	DY831 (1)	-	-
	Ref.	100002469	-	-
Ø 160/220 mm (PPS)	Package n°	DY827 (1)	-	DY825 (Ø150 on 160 mm)
	Ref.	100002401	-	100002399

(1) For walls with a thickness > 400mm, an extender is available as an option

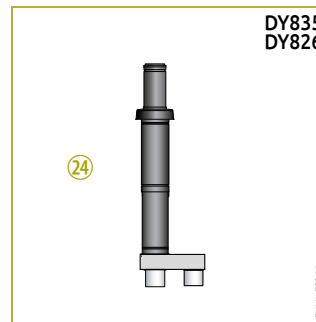
PPS OR ALU FLUE SYSTEMS ACCESSORIES

NEED AS A MINIMUM FOR CONNECTION
TO A VERTICAL FORCED FLUE

CONNECTION Ø		VERTICAL AIR/ FLUE GAS TERMINAL	ADAPTER KIT TO CONCENTRIC OUTLET	ADAPTER
Ø 150/220 mm (Alu)	Package n°	DY835	-	-
	Ref.	100002473	-	-
Ø 160/220 mm (PPS)	Package n°	DY826	-	DY825 (Ø150 on 160 mm)
	Ref.	100002400	-	100002399



21 Horizontal air/flue gas terminal



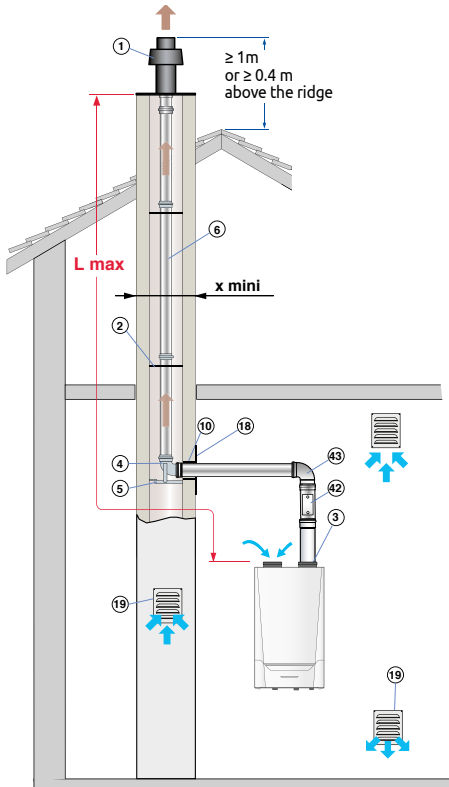
24 Vertical air/flue gas terminal

REFERENCE FOR THE OTHER ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

INNOVENS PRO MCA 160

6 Classification B_{23p} - Chimney



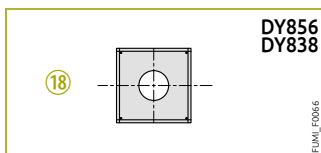
Note: Mixing of materials is prohibited for B₂₃ and B_{23p} configurations.

		L _{max} (m)	
		Ø 150 mm Allu	Ø 160 mm PPS
MCA 160		40	50
x mini	∇ (mm)	210	220
	Ø (mm)	230	240

PPS OR ALU FLUE SYSTEMS ACCESSORIES

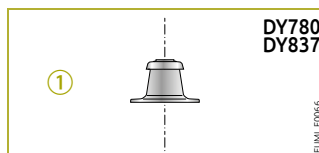
NEED AS A MINIMUM FOR CONNECTION TO A CHIMNEY

CONNECTION Ø	AIR/FLUE GAS OR TERMINAL WITH FLASHING	87° ELBOW + BRACKET		FINISHING PLATE	SLEEVE LG 500 MM	ADAPTER	87° ELBOW
		DY780	DY855				
Ø 150 (Allu)	Package n°	DY780	DY855	DY856	DY773	-	DY649
	Ref.	84887780	100003968	100003969	84887773	-	84887649
Ø 160 (PPs)	Package n°	DY837	DY836	DY838	DY773	DY825 (Ø150 to 160 mm)	DY823
	Ref.	100002475	100002474	100002476	84887773	100002399	100002397



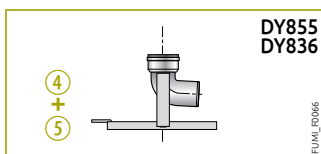
DY856
DY838

FUJML_F0066



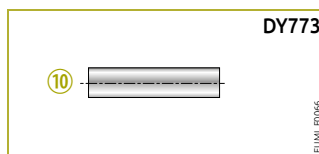
DY780
DY837

FUJML_F0066



DY855
DY836

FUJML_F0066

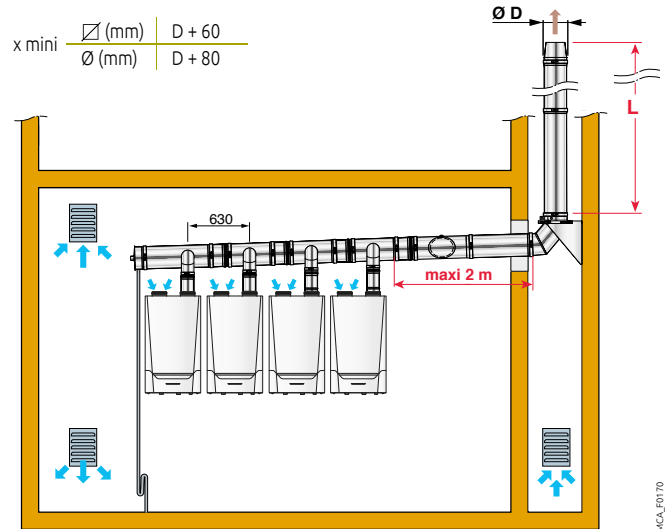


DY773

FUJML_F0066

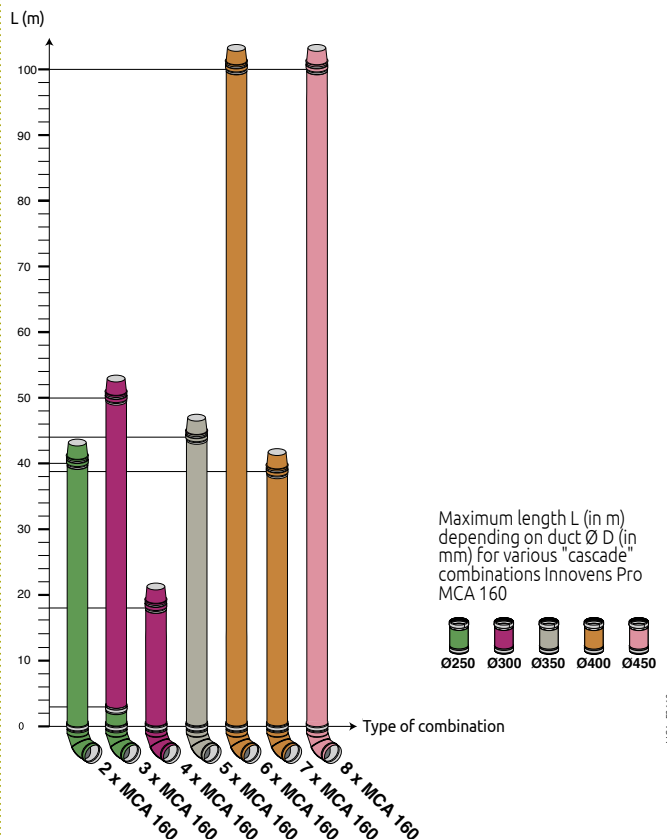
- ① Air/flue gas terminal with flashing
- ② 2 centring stars
- ④ 87° elbow
- ⑤ Support rail
- ⑥ 0.5 m extension kit
- ⑩ Sleeve 0.5 m
- ⑱ Finishing plate

7 Classification B_{23p} - For installation in cascade



Note: Mixing of materials is prohibited for B₂₃ and B_{23p} configurations.

MAXIMUM ADMISSIBLE LENGTH L (IN M) DEPENDING ON THE Ø OF THE PIPE D (IN mm) FOR VARIOUS IX... "CASCADE" COMBINATIONS (These lengths have been defined in accordance with the dimensional constraints given in the schematics above. For different dimensional constraints, consult us).



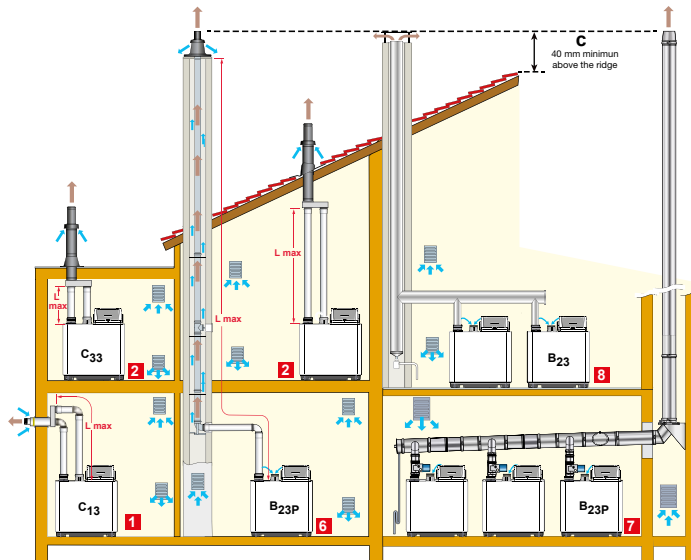
NOTA: These lengths are given as a rough guide. De Dietrich's liability may in no event be invoked.

- Boilers Innovens Pro MCA 160, working at 40/30°C.

REFERENCE FOR THE OTHER ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

FOR C 230 EVO, C 340, C 640



CLASSIFICATION

- 1** Classification C₁₃: Air/flue gas connection by means of separate air and flue gas pipes to a concentric horizontal terminal (wall outlet).
- 2** Classification C₃₃: Air/flue gas connection by means of separate air and flue gas pipes to a concentric vertical terminal (roof outlet).
- 5** Classification C₅₃: Separate air and flue gas connection using a bi-flow adapter and single pipes (combustive air taken from outside).
- 6** Classification B_{23P}: Connection to a flue gas conduit under pressure, the combustive air being drawn from the boiler room.
- 7** Classification B_{23P}: For cascade installation. The compulsory flue dampers are to order separately (Package GV24).
- 8** Classification B₂₃: Connection of one boiler or several boilers in cascade to a chimney in depression, insensitive to humidity, the combustive air being taking from the boiler room.

C230_EVO_F0103

TABLE OF MAXIMUM AIR/FLUE GAS PIPE LENGTHS ADMISSIBLE ACCORDING TO BOILER TYPE . . .

TYPE OF AIR/FLUE GAS CONNECTION		L _{MAX} : MAXIMUM LENGTH OF THE CONNECTING PIPES IN M													SEE PAGE				
		C 230 EVO - ...				C 340					C 640								
		85	130	170	210	280	350	430	500	570	650	560	700	860	1000	1140	1300		
Concentric pipes connected to a horizontal air/flue gas terminal	C ₁₃	Ø 150 mm (Alu)	50	37	16	14													293
		Ø 160 mm (PPS)	50	37	16	14													
Concentric pipes connected to a vertical air/flue gas terminal	C ₃₃	Ø 150 mm (Alu)	50	37	16	14	-	-	-	-	-	-	-	-	-	-	-	-	296
		Ø 160 mm (PPS)	50	37	16	14	-	-	-	-	-	-	-	-	-	-	-	-	
		Ø 200 mm					42	21	13	10	5	4	-	-	-	-	-	-	
		Ø 250 mm					50	50	50	50	34	30	-	-	-	-	-	-	
		Ø 300 mm					-	-	-	-	-	-	50	43	26	13	5	-	
Bi-flow adapter and separate single air/flue gas pipes (combustive air taken from outside)	C ₅₃	Ø 350 mm										50	50	50	35	16	10	296	
		Ø 450 mm										50	50	50	50	24	12		
		Ø 150 mm					36	36	23	11	-	-	-	-	-	-	-		-
		Ø 250 mm					50	50	50	50	49	40	-	-	-	-	-		-
In the chimney (combustive air taken from B _{23P} the premises)	B _{23P}	Ø 350 mm										50	50	50	33	-	-	297	
		Ø 400 mm										50	50	50	50	22	-		
		Ø 110 mm (PPS)	27	8	-	-													
		Ø 110 mm (PPS Flex)	14,5	4	-	-													
		Ø 150 mm (Alu)	50	50	45	27	20	11	8	7	5	5	-	-	-	-	-		
		Ø 160 mm (PPS)	50	50	50	43	-	-	-	-	-	-	-	-	-	-	-		-
		Ø 180 mm					50	30	22	18	13	12	-	-	-	-	-		-
Ø 200 mm					50	50	39	32	24	21	-	-	-	-	-	-			
Ø 250 mm					50	50	50	50	50	50	50	31	20	11	5	3			
Ø 300 mm					-	-	-	-	-	-	50	50	50	39	26	29			
Ø 350 mm					-	-	-	-	-	-	50	50	50	50	50	50			

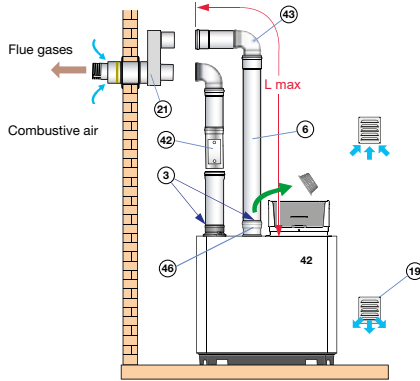
NOTA: Ø 160 mm (PPS) 40 50 is measured by adding the lengths of the straight air/flue gas pipes and the equivalent lengths of the other sections:

- Ø 150 mm (PPS): 1 elbow 87° = 6.4 m, 1 elbow 45° = 1.7 m
1 inspection T = 6.4 m, 1 straight inspection = 0.5 m
- Ø 160 mm (PPS): 1 elbow 87° = 5 m, 1 elbow 45° = 1.4 m
1 inspection elbow = 5 m, 1 straight inspection = 0.9 m

EQUIPMENT - FLUE SYSTEMS

FOR C 230 EVO

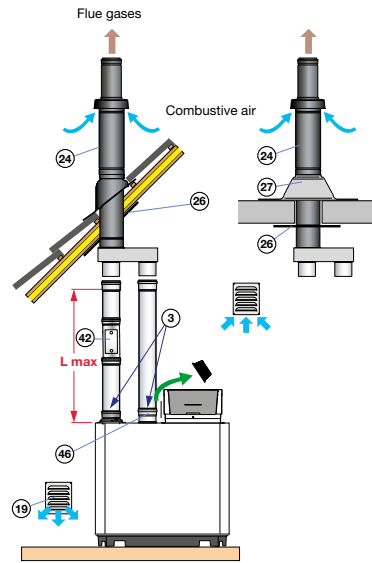
1 Classification C₁₃ - Concentric horizontal forced flue



C230_EVO_FI105

Ø 150 OR 160 MM	L _{max} (m)
C 230 EVO-85	50
C 230 EVO-130	37
C 230 EVO-170	16
C 230 EVO-210	14

2 Classification C₃₃ - Concentric vertical forced flue



C230_EVO_FI106

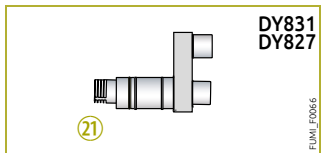
Ø 150 OR 160 MM	L _{max} (m)
C 230 EVO-85	50
C 230 EVO-130	37
C 230 EVO-170	16
C 230 EVO-210	14

PPS OR ALU FLUE SYSTEMS ACCESSORIES

NEED AS A MINIMUM FOR CONNECTION TO A HORIZONTAL AIR/FLUE GAS TERMINAL

CONNECTION Ø		HORIZONTAL FORCED FLUE (1)	AIR CONNECTION PART	Adapt. Ø 150 to 160 mm
Ø 150/220 mm (Alu)	Package n°	DY831	DY830	-
	Ref.	100002469	100002404	-
Ø 160/220 mm (PPS)	Package n°	DY827	DY830	DY825
	Ref.	100002401	100002404	100002399

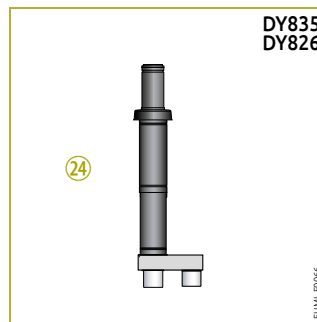
(1) For walls kit > 400 mm, an optional extension is available: see below.



PPS OR ALU FLUE SYSTEMS ACCESSORIES

NEED AS A MINIMUM FOR CONNECTION TO A VERTICAL AIR/FLUE GAS TERMINAL

CONNECTION Ø		VERTICAL FORCED FLUE	AIR CONNECTION PART	ADAPT. Ø 150 TO 160 MM
Ø 150/220 mm (Alu)	Package n°	DY835	DY830	-
	Ref.	100002473	100002404	-
Ø 160/220 mm (PPS)	Package n°	DY826	DY830	DY825
	Ref.	100002400	100002404	100002399



OTHERS FLUE SYSTEMS ACCESSORIES AVAILABLE

- ALU Ø 150/220 MM AND Ø 150 MM	PACKAGE	REF
Inspection T	DY832	100002470
500 mm extension kit	DY645	84887645
1000 mm extension kit	DY646	84887646
1950 mm extension kit	DY647	84887647
87° elbow (1-piece)	DY649	84887649
45° elbow (2-pieces)	DY650	84887650
Extension for horiz. air/flue gas terminal Ø 150/220 mm	DY864	100004243

- PPS Ø 160/220 MM AND Ø 160 MM	PACKAGE	REF
Extension for horizontal air/flue gas terminal Ø 160/220 mm	DY857	100004040
300 mm straight inspection pipe	DY833	100002471
Inspection elbow	DY834	100002472
500 mm extension kit	DY822	100002396
1000 mm extension kit	DY821	100002395
87° elbow (1-piece)	DY823	100002397
45° elbow (2-pieces)	DY824	100002398

- COMMON ACCESSORIES	PACKAGE	REF
Ø 160/220 mm flashing for flat roof	DY828	100002402
Ø 160/220 mm flashing for sloping roof	DY829	100002403
Ø 160 mm fastening collar	DY842	100002693
Internal finishing plate	DY840	100002700
Ø 150 mm fastening collar	DY841	100002692

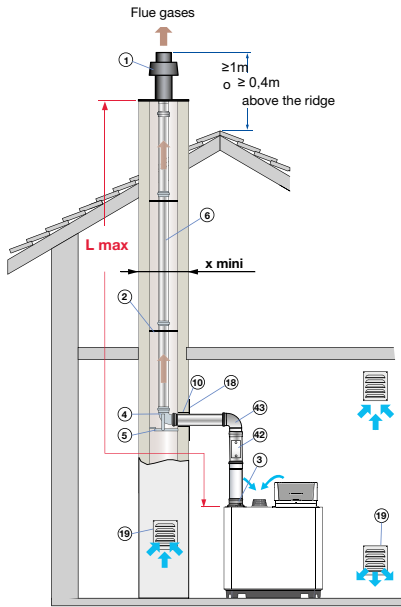
NOTA: L_{max} is measured by adding the lengths of the straight air/flue gas pipes and the equivalent lengths of the other sections:

- Ø 150 mm (alu): elbow 87° = 6.4 m, elbow 45° = 1.7 m, inspection T = 6.4 m, inspection tube = 0.5 m
- Ø 160 mm (PPS): elbow 87° = 5 m, elbow 45° = 1.4 m, inspection elbow = 5 m, inspection tube = 0.9 m.

EQUIPMENT - FLUE SYSTEMS

FOR C 230 EVO

6 Classification B_{23p} - Chimney

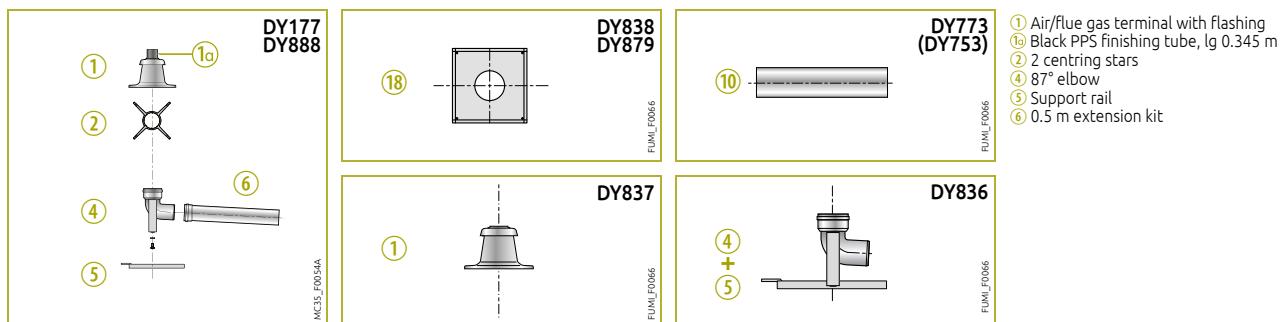


C230_EVO_F0107

	L _{max} (m)			
	Ø 110 mm PPS	Ø 110 mm PPS FLEX	Ø 150 MM ALU	Ø 160 mm PPS
C 230 EVO-85	27	14,5	50	50
C230 EVO-130	8	4	50	50
C 230 EVO-170	-	-	45	50
C 230 EVO-210	-	-	27	43
x mini	☑ 170	☑ 170	☑ 220	☑ 220
	∅ 190	∅ 190	∅ 240	∅ 240

PPS OR ALU FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR CONNECTION TO A CHIMNEY

CONNECTION Ø	CHIMNEY CONNECTING KIT OR				ADAPTER	
	AIR/FLUE GAS TERMINAL WITH FLASHING	87° ELBOW + BRACKET	FINISHING PLATE	SLEEVE LG 500 MM		
Ø 110 mm PPS	Package n°	DY177		DY879	DY753	DY915 Ø 150 to 110 mm
	Ref.	84887577		100010270	84887753	100017634
Ø 110 mm PPS Flex	Package n°	DY888		DY879	DY753	DY915 Ø 150 to 110 mm
	Ref.	100015287		100010270	84887753	100017634
Ø 150 mm Alu	Package n°	DY780	DY855	DY856	DY773	-
	Ref.	84887780	100003968	100003969	84887773	-
Ø 160 mm PPS	Package n°	DY837	DY836	DY838	DY773	DY825 Ø 150 to 160 mm
	Ref.	100002475	100002474	100002476	84887773	100002399



OTHERS FLUE SYSTEMS ACCESSORIES AVAILABLE

ALU (Ø 150 MM)

	PACKAGE	REF
Inspection T	DY832	100002470
500 mm extension kit	DY645	84887645
1000 mm extension kit	DY646	84887646
1950 mm extension kit	DY647	84887647
87° elbow (1 piece)	DY649	84887649
45° elbow (2 pieces)	DY650	84887650
87° elbow with bracket	DY855	100003968
Centring stars (2 pieces)	DY648	84887648
External ventilation screen 175 cm ²	DY35	84887435
Internal ventilation screen 175 cm ²	DY36	84887436
Adapter Ø 150 to 110 mm	DY915	100017634
Adapter Ø 150 to 160 mm	DY825	100002399

PPS (Ø 110 MM): SEE FOLLOWING PAGES

PPS (Ø 160 MM)

	PACKAGE	REF
300 mm straight inspection pipe	DY833	100002471
Inspection elbow	DY834	100002472
500 mm extension kit	DY822	100002396
1.000 mm extension kit	DY821	100002395
87° elbow (1 piece)	DY823	100002397
45° elbow (2 pieces)	DY824	100002398
87° elbow with bracket	DY836	100002474
Finishing plate for chimney	DY838	100002476
Centring stars (2 pieces)	DY839	100002540
External ventilation screen 175 cm ²	DY35	84887435
Internal ventilation screen 175 cm ²	DY36	84887436

NOTA: L_{max} is measured by adding the lengths of the straight air/flue gas pipes and the equivalent lengths of the other sections:

- Ø 110 mm: see page 221

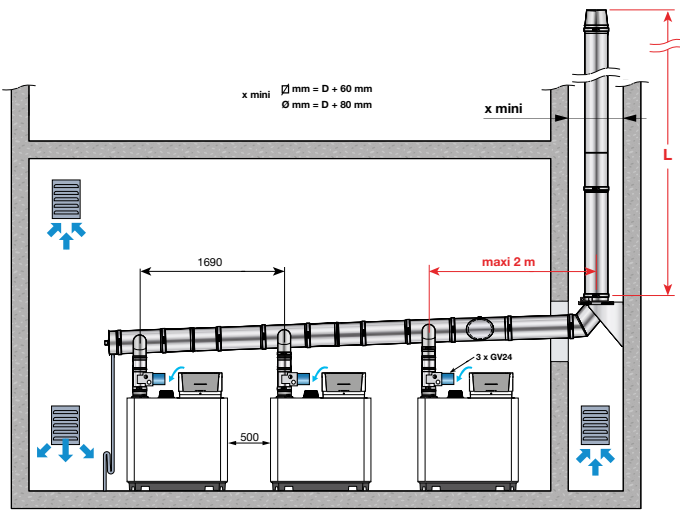
- Ø 150 mm (alu): elbow 87° = 6.4 m, elbow 45° = 1.7 m, inspection T = 6.4 m, inspection tube = 0.5 m

- Ø 160 mm (PPS): elbow 87° = 5 m, elbow 45° = 1.4 m, inspection elbow = 5 m, inspection tube = 0.9 m

EQUIPMENT - FLUE SYSTEMS

FOR C230 EVO

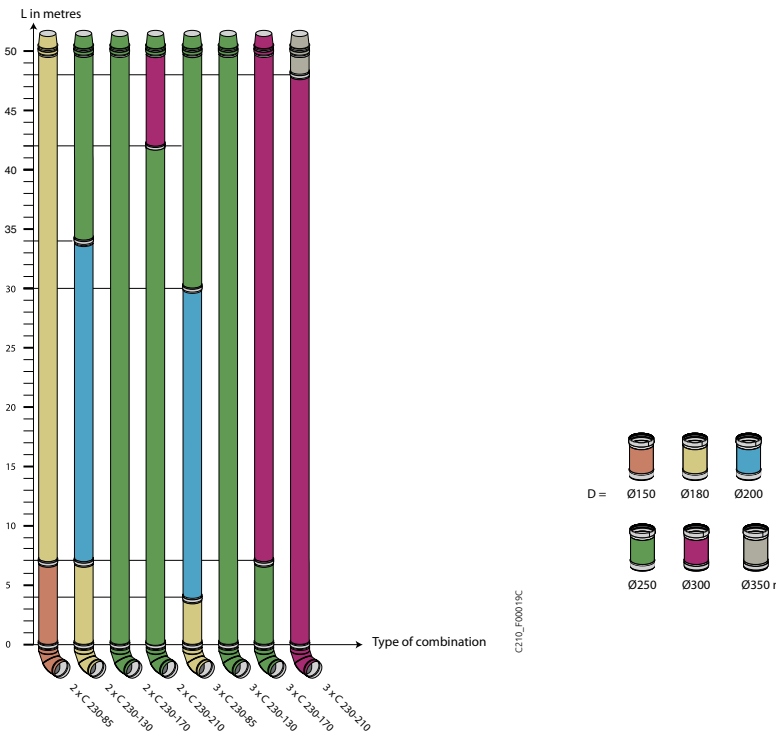
7 Classification B_{23p} for installation in cascade



x mini	$\frac{\square}{\square}$ (mm)	D + 60
	Ø (mm)	D + 80

MAXIMUM ADMISSIBLE LENGTH L (IN M) DEPENDING ON THE Ø OF THE PIPE D (IN MM) FOR VARIOUS C 230 "CASCADE" COMBINATIONS
(These lengths have been defined in accordance with the dimensional constraints given in the schematics above. For different dimensional constraints, consult us).

C 230 EVO - ...



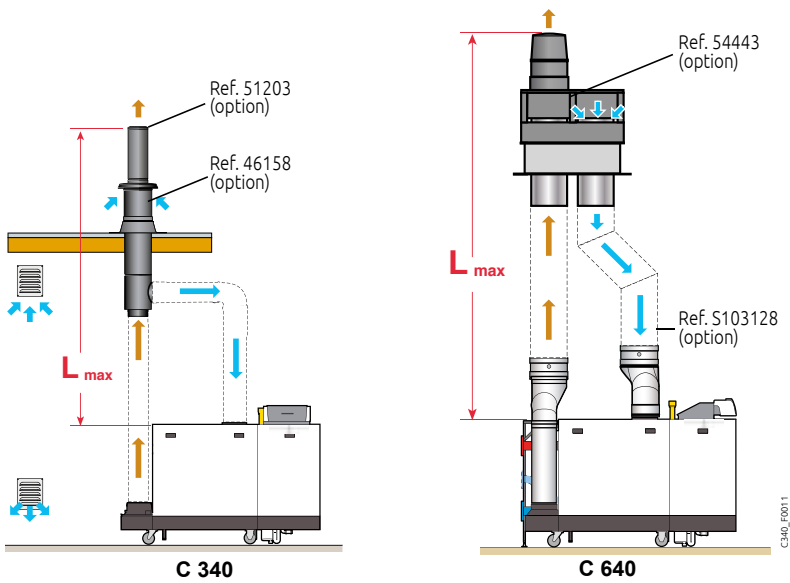
- C 230 EVO - ... boilers, working at 40/30°C
 - Compulsory flue dampers to be ordered separately (package GV24)
- NB: These lengths are given as a rough guide. De Dietrich's liability may in no event be invoked.

C230_EVO_F0108

EQUIPMENT - FLUE SYSTEMS

FOR C 340, C 640

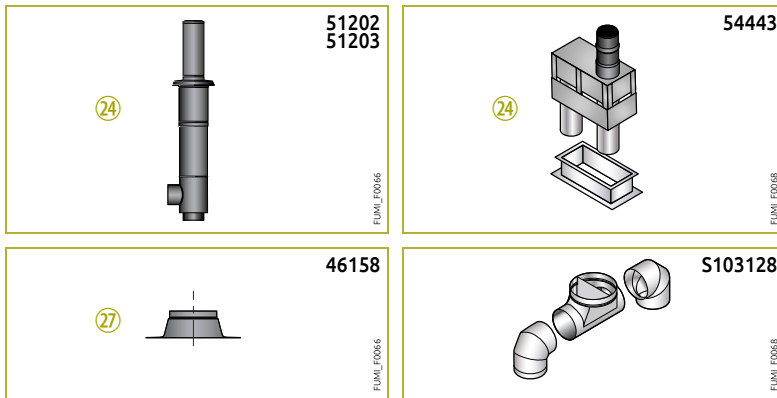
2 Classification C₃₃ - Concentric vertical forced flue



BOILER TYPE C 340-...	L _{MAX} (l)		
	Ø 200 mm	Ø 250 mm	Ø 300 mm
280	42 m	50 m	50 m
350	21 m	50 m	50 m
430	13 m	50 m	50 m
500	10 m	50 m	50 m
570	5 m	34 m	50 m
650	4 m	50 m	50 m

BOILER TYPE C 640-...	L _{MAX} (l)		
	Ø 300 mm	Ø 350 mm	Ø 400 mm
560	50 m	50 m	50 m
700	43 m	50 m	50 m
860	26 m	50 m	50 m
1000	13 m	35 m	50 m
1140	5 m	16 m	24 m
1300	-	10 m	12 m

NOTA: length also applicable in classification C₉₃



ALU/GALVA FLUE SYSTEMS ACCESSORIES

PACKAGE REF.

► for C 340

- Adapter flue gas for replacement C 310 ECO for C 340 - **S103178**
- Adapter Ø 250 to 200 mm - **S103179**
- Set combination flue gas for 2 x C 340 - **S103118**
- Air inlet collector for 2 x C 340 - **S103128**

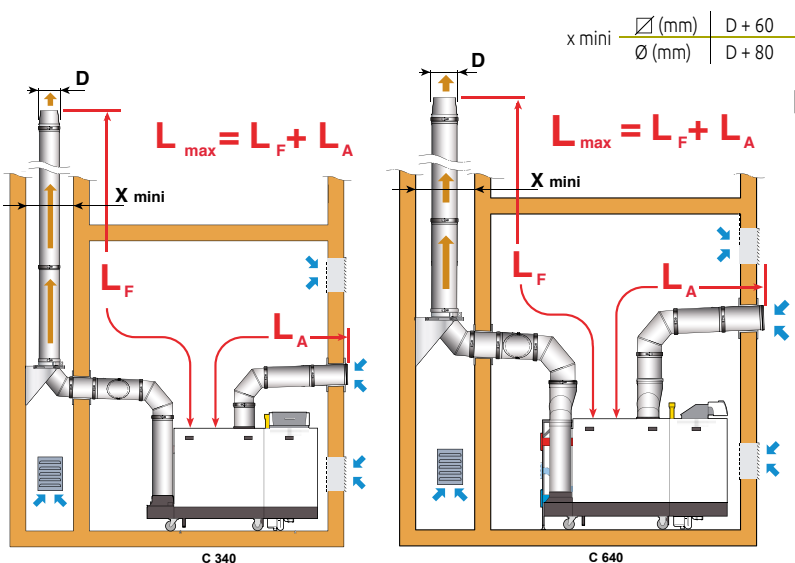
Vertical air/flue gas terminal (galvanised aluminium)

- Ø 250/350 mm - **S1203**
- Flashing for flat roof
- Ø 350 mm - **46158**

► for C 640

- Vertical air/flue gas terminal Ø 2 x 350 mm - **54443**
- Collector air inlet - **S103128**

5 Classification C₅₃ - separate air and flue gas pipes with bi-flow adapter (combustive air taken from outside)



BOILER TYPE C 340-...	L _{MAX} (l)	
	Ø 250 mm	
280	50 m	
350	50 m	
430	50 m	
500	50 m	
570	49 m	
650	40 m	

BOILER TYPE C 640-...	L _{MAX} (l)	
	Ø 350 mm	Ø 400 mm
560	50 m	50 m
700	50 m	50 m
860	50 m	50 m
1000	33 m	50 m
1140	-	22 m
1300	-	-

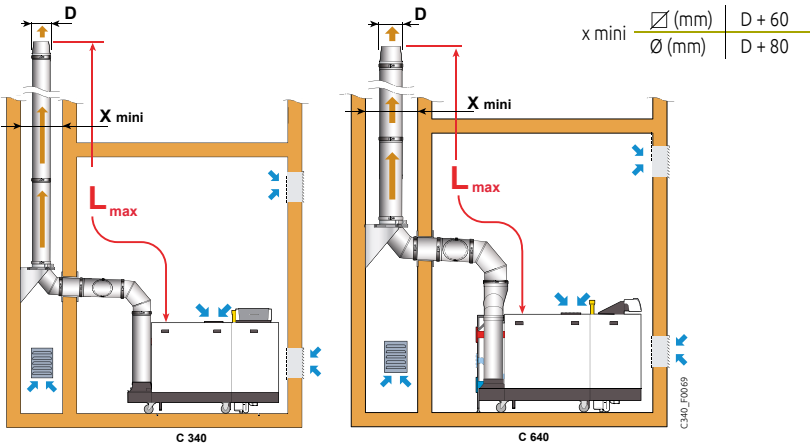
(1) Calculated with rigid pipe and outlet without flashing

EQUIPMENT - FLUE SYSTEMS

FOR C 340, C 640

6 7 Classification B_{23p} - Chimney

Boiler only

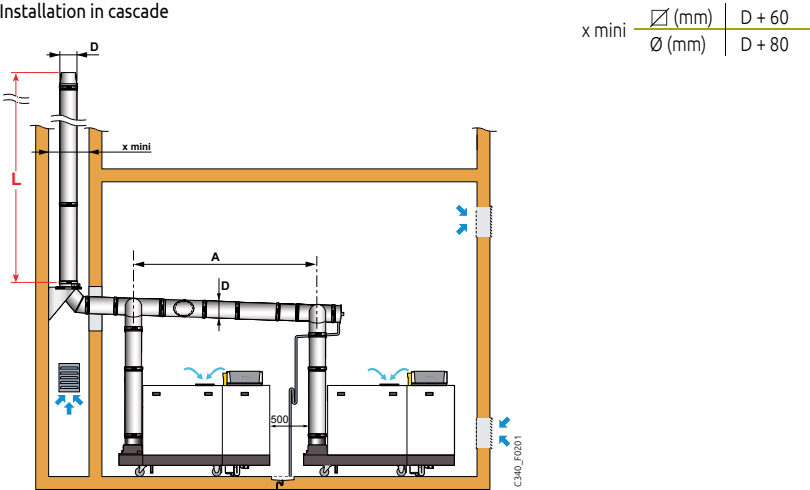


BOILER TYPE C 340-...	L _{max} (m) ¹			
	Ø 150 mm	Ø 180 mm	Ø 200 mm	Ø 250 mm
280	20 m	50 m	50 m	50 m
350	11 m	30 m	50 m	50 m
430	8 m	22 m	39 m	50 m
500	7 m	18 m	32 m	50 m
570	5 m	13 m	24 m	50 m
650	-	12 m	21 m	50 m

BOILER TYPE C 640-...	L _{max} (m) ¹		
	Ø 250 mm	Ø 300 mm	Ø 350 mm
560	15 m	50 m	50 m
700	6 m	50 m	50 m
860	-	50 m	50 m
1000	-	39 m	50 m
1140	-	26 m	50 m
1300	-	19 m	50 m

(1) Calculated with rigid pipes and without terminal

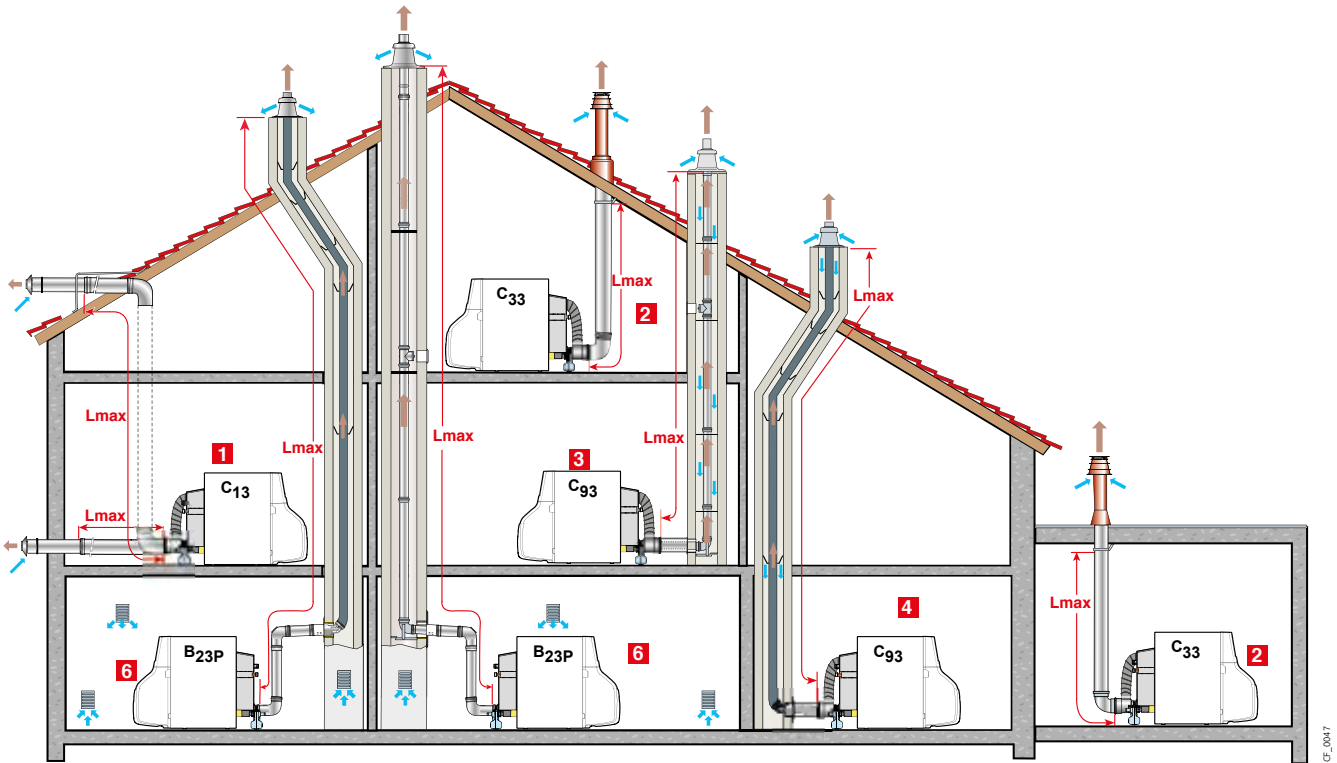
Installation in cascade



	A (mm)
C 340-280, C 340-350, C 640-560, C 640-700	2100
C 340-430, C 340-500, C 340-570, C 330-650 C 640-860, C 640-1000, C 640-1140, C 640-1300	2490

EQUIPMENT - FLUE SYSTEMS

FOR CFU C...CONDENS



CLASSIFICATION

- 1** Classification C₁₃: Air/flue gas connection through separate pipes to a concentric horizontal air/flue gas terminal (so-called forced flue)
- 2** Classification C₃₃: Air/flue gas connection by means of separate air and flue gas pipes to a concentric vertical terminal (roof outlet).
- 3** Classification C₉₃: Air/flue gas connection using concentric pipes in the boiler room and single pipes in the chimney (combustive air in counter current in the chimney) or
- 4** Air/flue gas connection using concentric pipes in the boiler room and single "flex" pipes in the chimney (combustive air in counter current in the chimney)
- 6** Classification B_{23P}: Connection to a chimney (combustive air taken from the boiler room).

TABLE OF MAXIMUM AIR/FLUE GAS PIPE LENGTHS ACCORDING TO BOILER TYPE

TYPE OF AIR/FLUE GAS CONNECTION			L _{MAX} : MAXIMUM LENGTH OF THE CONNECTING PIPES IN M		
			CFU C... FF	CFU C...	SEE PAGE
Concentric pipes connected to a horizontal air/flue gas terminal (PPS)	C ₁₃	Ø 80/125 mm	12	-	299
Concentric pipes connected to a vertical air/flue gas terminal (PPS)	C ₃₃	Ø 80/125 mm	12	-	
Pipes <ul style="list-style-type: none"> • concentric in the boiler room, • single in the chimney (combustive air in counter current) (PPS) 	C ₉₃	Ø 80/125 mm Ø 80 mm	15	-	300
Pipes <ul style="list-style-type: none"> • concentric in the boiler room, • "flex" in the chimney (combustive air in counter current) (PPS) 	C ₉₃	Ø 80/125 mm Ø 80 mm	15	-	300
In the chimney (rigid or flex) (combustive air taken from the premises) (PPS)	CFU C 19 to 32	Ø 80 mm (rigid)	-	15	301
		Ø 80 mm (flex)	-	15	
In the chimney (rigid or flex) (combustive air taken from the premises) (PPS)	CFU C 40 and 50	Ø 100 mm (rigid)	-	20	
		Ø 100 mm (flex)	-	20	

NOTA: L_{MAX} is measured by adding the lengths of the straight air/flue gas pipes and the equivalent lengths of the other sections:

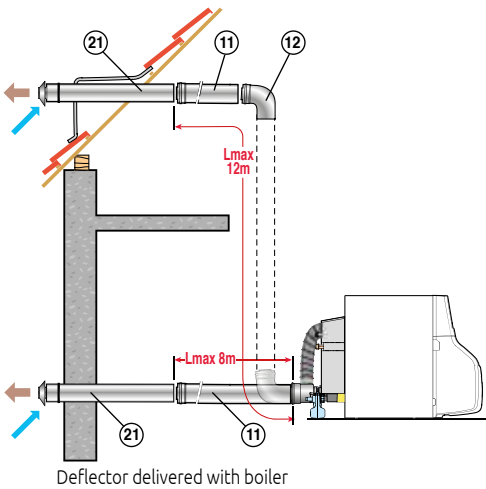
- Ø 80/125 mm and Ø 80 mm (PPS): elbow 87° = 1,9 m, elbow 45° = 1,2 m, inspection elbow = 1,9 m, straight inspection = 0,3 m, inspection T = 4,2 m, 1 straight inspection for flex pipe = 0,3 m

IMPORTANT: Our boilers have been designed, tested and approved using the air/flue gas pipes proposed in our catalogue, pursuant to the requirements of the prevailing standards. We guarantee the safety and correct operation of our boilers when they are installed with the approved flue systems and under the conditions recommended in our technical documentation.

EQUIPMENT - FLUE SYSTEMS

FOR CFU C...CONDENS FF

1 Classification C₁₃ - Concentric horizontal forced flue (connection to an external wall or a roof outlet)



CF_F0008

BOILER TYPE

L_{MAX} (m)

Ø 80/125 mm

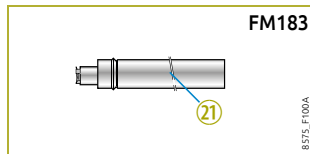
CFU C 19 to 32 FF

12 (1)

(1) with a horizontal pipe not exceeding 8 m.

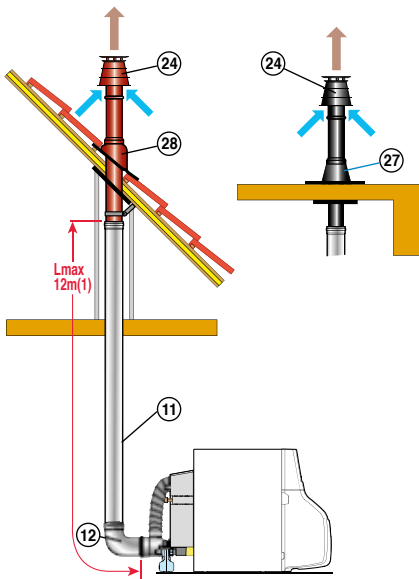
PPS FLUE SYSTEM ACCESSORIES DELIVERED WITH THE CFU C FF HOR BOILER

Horizontal air/flue gas terminal Ø 80/125 mm	Package n° Ref.	FM183 100007638
Kit FF	Package n° Ref.	MY920 7742053



21 Horizontal air/flue gas terminal

2 Classification C₃₃ - Concentric vertical forced flue (connection to sloping roof or flat roof)



CF_F0019

BOILER TYPE

L_{MAX} (m)

Ø 80/125 mm

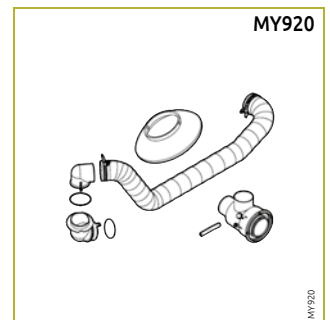
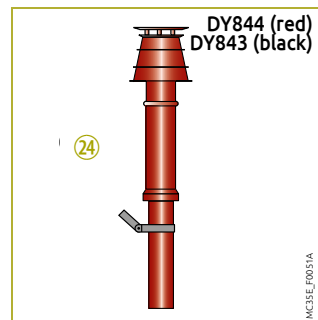
CFU C 19 to 32 FF

12

PPS FLUE SYSTEMS ACCESSORIES DELIVERED WITH CFU C... FF VER BOILER

Vertical air/flue gas terminal or	black	Package n° Ref.	DY843 100002732
	red	Package n° Ref.	DY844 100002733
Elbow 87°		Package n° Ref.	DY131 84887531

(1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length L_{max} shown in the table below



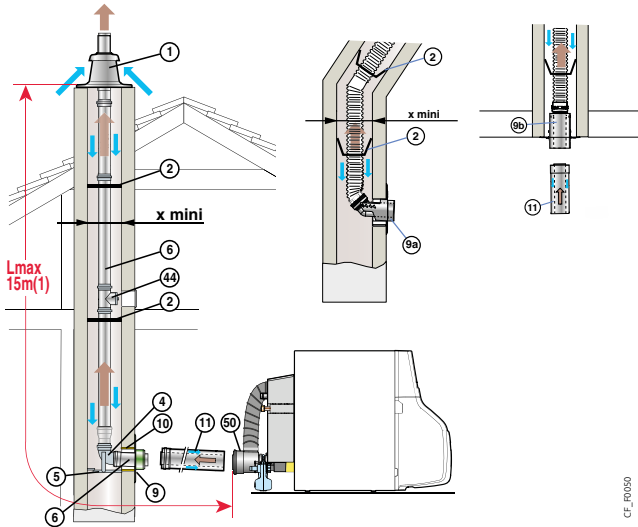
24 Vertical air/flue gas terminal

REFERENCE FOR THE OTHER PPS ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

FOR CFU C...CONDENS FF

- 3** **4** Classification C₃₃
 - concentric pipes in the boiler room
 - singles pipes in the chimney
 (combustive air in counter current)



(1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length L_{max} shown in the table below

L_{max} (m)

	IN THE BOILER ROOM (MM)	Ø 80/125 mm	
	IN THE CHIMNEY (MM)	Ø 80 mm RIGID	Ø 80 mm FLEX
CFU C 19 to 32		15	15
x mini	☑	140	140
	☐	160	160

PPS FLUE SYSTEM ACCESSORIES DELIVERED WITH THE CFU C FF HOR BOILER

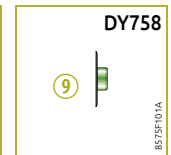
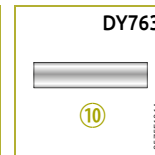
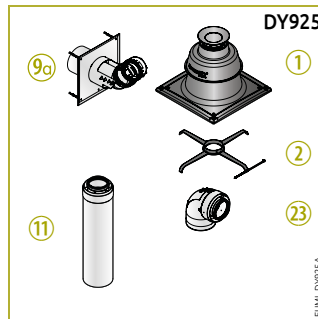
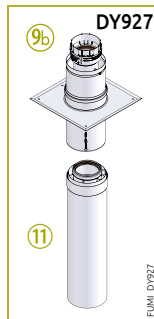
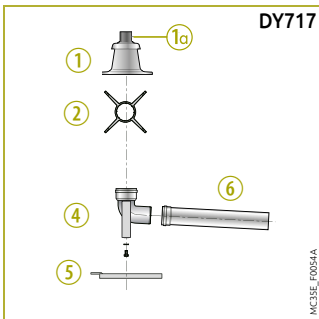
Kit FF	Package n°	MY920
	Ref.	7742053



PPS FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR AIR/FLUE GAS CONNECTION WITH CONCENTRIC PIPES IN THE BOILER ROOM, AND SINGLE PIPES IN THE CHIMNEY

BOILER TYPE	CONNECTION Ø		CHIMNEY CONNECTION KIT	FINISHING PLATE	SLEEVE	ELBOW 87°	FLEX PIPE	
CFU C... FF	- Ø 80/125 mm in the boiler room - Ø 80 mm (rigid) in the chimney	Package n°	DY717	DY758	DY763	-	-	
		Ref.	84887717	84887758	84887763	-	-	
	- Ø 80/125 mm in the boiler room - Ø 80 mm (flex) in the chimney	Quick Kit or	Package n°	DY925 (perpendicular)	-	-	-	DY897 (lg 12,5 m) (1)
		Ref.	7650958	-	-	-	-	100015327
		Package n°	DY927 + DY899 (telescopic under chimney)	-	-	DY131	DY897 (lg 12,5 m) (1)	
		Ref.	7650964 + 100015329	-	-	84887531	100015327	

(1) other lengths of flex pipes available: see following pages



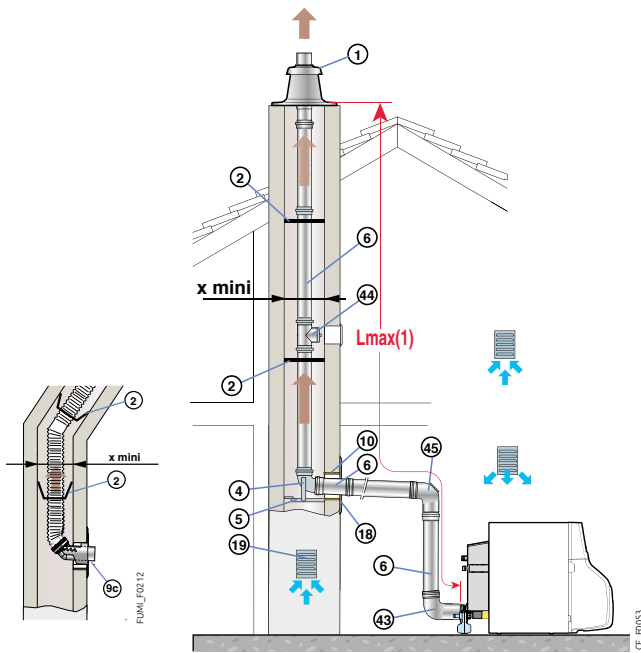
- ① Air/flue gas terminal with flashing
- 1a) Black PPS finishing tube for DY895
- ② 2 centring stars
- ④ 87° elbow
- 4a) Adapter
- ⑤ Support rail
- ⑥ 0.5 m extension kit
- ⑨ Finishing plate
- 9a) Finishing plate Ø 80/125 mm (with elbow) for flex pipe
- 9b) Finishing plate Ø 80/125 mm (without elbow) for flex pipe
- ⑩ 0.5 m galvanised sleeve
- ⑪ 0.5 m extension kit
- ⑫ Concentric inspection elbow

REFERENCE FOR THE OTHER PPS ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

FOR CFU C...CONDENS

6 Classification B_{23P} - Connection to a chimney
(combustive air taken from the boiler room)



	L _{max} (m)			
	ø 80 mm		ø 110 mm	
	RIGID	FLEX	RIGID	FLEX
CFU C 19 to 32	15	15	-	-
CFU C 40, 50	20	20	20	20
x mini	∇ (mm)	140	140	170
	∅ (mm)	160	160	190

Attention: to prevent noise transmission, do not brick the pipe into the chimney

(1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length L_{max} shown in the table below

PPS FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR CONNECTION TO A CHIMNEY

BOILER TYPE	CONNECTION Ø		CHIMNEY CONNECTING KIT	FINISHING PLATE	SLEEVE	FLEX PIPE
CFU C 19 to 32	- Ø 80 mm (rigid)	Package n°	DY717	DY757	DY753	-
		Ref.	84887717	84887757	84887753	-
CFU C 40 and 50	- Ø 80 mm (flex)	Quick Kit	DY923	-	-	DY897 (12,5 m) (1)
		Ref.	7650954	-	-	100015327
CFU C 19 to 32	- Ø 110 mm (rigid)	Package n°	DY177	DY879	DY753	-
		Ref.	84887577	100010270	84887753	-
CFU C 40 and 50	- Ø 110 mm (flex)	Package n°	DY888	DY879	DY753	DY889 (15 m) (1)
		Ref.	100015287	100010270	84887753	100015288

(1) other lengths of flex pipes available: see following pages

DY717 (DY177) (DY888)

MC3SE_F0054/A

DY923

FUJMI_DY923/A

DY753

8575F090/A

DY757 (DY879)

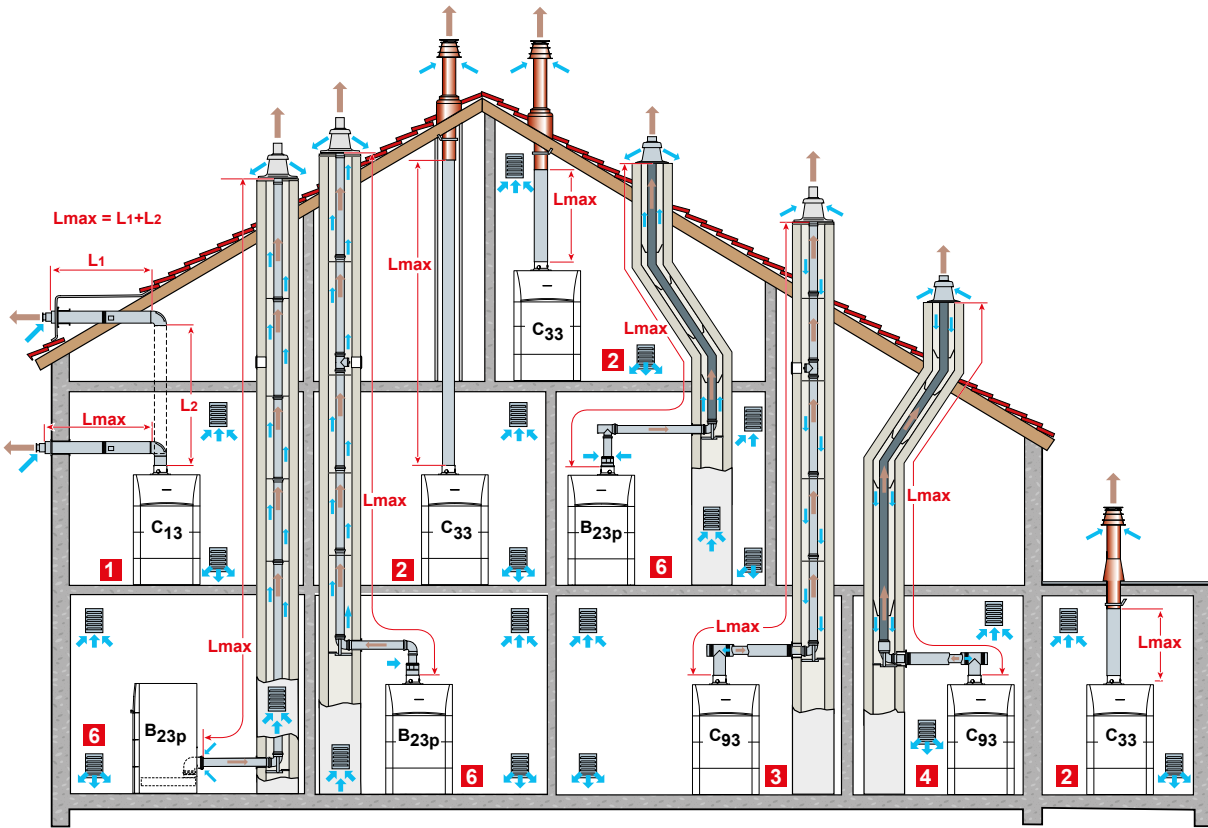
8575F090/A

① Air/flue gas terminal with flashing
①a Black PPS finishing tube, for DY895
② 2 centring stars
④ 87° elbow
⑤ Support rail
⑥ 0.5 m extension kit
⑨a Finishing plate Ø 80 mm (with elbow) for flex pipe
⑩ Galvanised sleeve
⑪ 0.5 m concentric extension
⑱ Chimney finishing plate
⑲ Ventilation screen 250 x 300 mm

REFERENCE FOR THE OTHER PPS ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

FOR MODULENS O® AND MODULENS O® PRO



AFC_E002.3D

CLASSIFICATION

- 1 Classification C₁₃: Air/flue gas connection through separate pipes to a concentric horizontal air/flue gas terminal (so-called forced flue)
- 2 Classification C₃₃: Air/flue gas connection through separate pipes to a concentric vertical air/flue gas terminal (roof outlet)
- 3 Classification C₉₃: Air/flue gas connection using concentric pipes in the boiler room and single pipes in the chimney (combustive air in counter current in the chimney) or
- 4 Air/flue gas connection using concentric pipes in the boiler room and single "flex" pipes in the chimney (combustive air in counter current in the chimney)
- 6 Classification B_{23p}: Connection to a chimney (combustive air taken from the boiler room).

TABLE OF MAXIMUM AIR/FLUE GAS PIPE LENGTHS ADMISSIBLE ACCORDING TO BOILER TYPE.....

TYPE OF AIR/FLUE GAS CONNECTION			L _{MAX} : MAXIMUM LENGTH OF THE CONNECTING PIPES IN M						SEE PAGE
			18	24	30	45	60		
Concentric pipes connected to a horizontal air/flue gas terminal (PPS)	C ₁₃	Ø 80/125 mm	8	8	8	-	-	303	
Concentric pipes connected to a vertical air/flue gas terminal (PPS)	C ₃₃	Ø 80/125 mm	8	8	8	-	-	303	
Pipes <ul style="list-style-type: none"> • concentric in the boiler room • single in the chimney (combustive air in counter current) (PPS) 	C ₉₃	Ø 80/125 mm Ø 80 mm	18	18	18	-	-	304	
Pipes <ul style="list-style-type: none"> • concentric in the boiler room • "flex" in the chimney (combustive air in counter current) (PPS) 	C ₉₃	Ø 80/125 mm Ø 80 mm	15	15	15	-	-	304	
In the chimney (rigid or flex) (combustive air taken from the premise) (PPS)	B _{23p}	Ø 80 mm (rigid)	18	18	18	-	-	305	
		Ø 80 mm (flex)	15	15	15	-	-	306	
		Ø 110 mm (rigid)	-	-	-	35	35	306	
		Ø 110 mm (flex)	-	-	-	30	30		

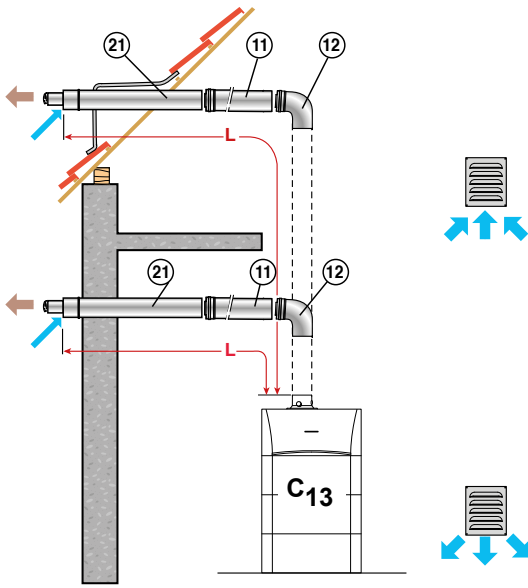
NOTA: L_{MAX} is measured by adding the lengths of the straight air/flue gas pipes and the equivalent lengths of the other sections:
 - Ø 80/125 mm (PPS): 87° elbow = 1.5 m, 45° elbow = 1 m, inspection T 2.6 m, straight inspection = 0.6 m, inspection elbow = 2 m
 - Ø 80 mm (PPS): 87° elbow = 1.9 m, 45° elbow = 1.2 m, inspection elbow = 1.9 m, straight inspection = 0.3 m, inspection T = 4.2 m, 1 straight inspection for flex pipe = 0.3 m

IMPORTANT: Our boilers have been designed, tested and approved using the air/flue gas pipes proposed in our catalogue, pursuant to the requirements of the prevailing standards. We guarantee the safety and correct operation of our boilers when they are installed with the approved flue systems and under the conditions recommended in our technical documentation.

EQUIPMENT - FLUE SYSTEMS

FOR **MODULES O®**

1 Classification C₁₃ - Concentric horizontal forced flue (connection to an external wall or a roof outlet)



RUML_F0087A

L_{max} (m)

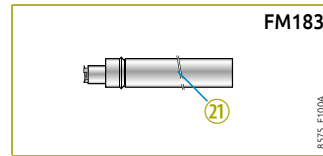
∅ 80/125 mm

AFC... FF

8

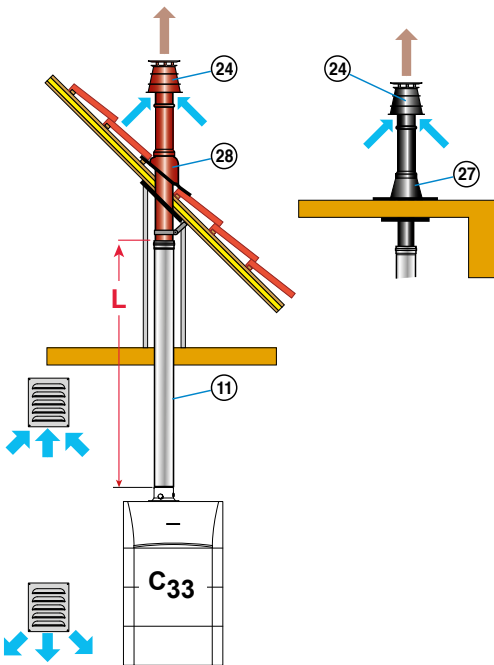
PPS FLUE SYSTEM ACCESSORIES DELIVERED WITH THE HOR BOILER

Horizontal air/flue gas terminal	Package n°	FM183
	Ref.	100007638
87° elbow	Package n°	DY131
	Ref.	84887531



② Horizontal air/flue gas terminal

2 Classification C₃₃ - Concentric vertical forced flue (connection to sloping roof or flat roof)



FUML_F0088A

L_{max} (m)

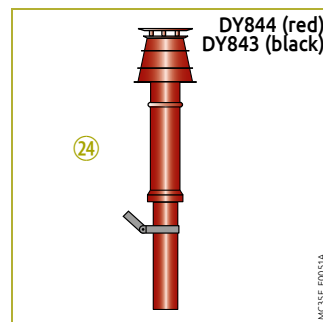
∅ 80/125 mm

AFC... FF

8

PPS FLUE SYSTEMS ACCESSORIES DELIVERED WITH THE VER BOILER

Vertical air/flue gas terminal	black	Package n°	DY843
		Ref.	100002732
or	red	Package n°	DY844
		Ref.	100002733



④ Vertical air/flue gas terminal

REFERENCE FOR THE OTHER PPS ACCESSORIES AVAILABLE: see following pages.

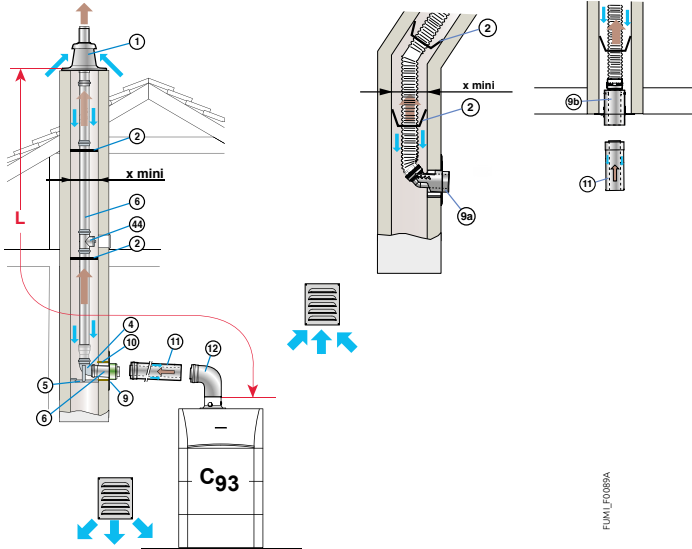
EQUIPMENT - FLUE SYSTEMS

FOR **MODULENS O®**

- 3 4** Classification C₉₃
 - Pipes concentric in the boiler room
 - Pipes simples in the chimney
 (combustive air in counter current)

L_{MAX}(m)

	IN THE BOILER ROOM (MM)		IN THE CHIMNEY (MM)	
	Ø 80/125 mm	Ø 80 mm RIGID	Ø 80/125 mm	Ø 80 mm FLEX
AFC... FF	18	15		
x mini	∇ (mm)	140		
	Ø (mm)	160		



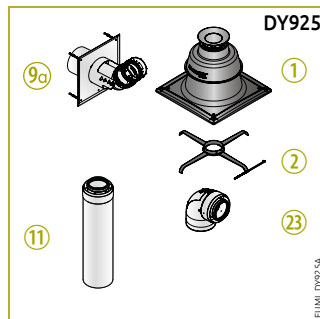
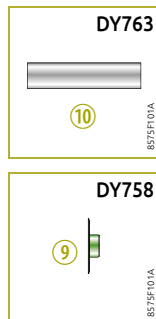
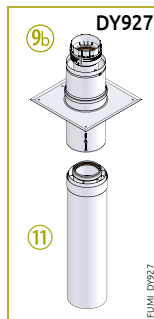
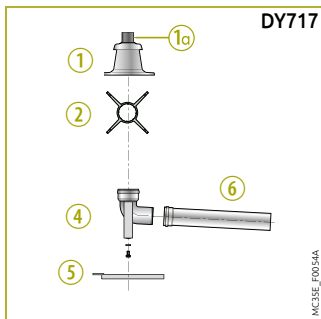
NOTE: The maximum lengths (L_{max}) given in the table are valid for pipes whose horizontal lengths do not exceed a total of 1 meter. For each additional meter of horizontal pipe, remove 1.2 m from the vertical length L_{max} show in the table above.

PPS FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR AIR/FLUE GAS CONNECTION

WITH CONCENTRIC PIPES IN THE BOILER ROOM, AND SINGLE PIPES IN THE CHIMNEY

BOILER TYPE	CONNECTION Ø		CHIMNEY CONNECTION KIT	FINISHING PLATE	SLEEVE	87° ELBOW	FLEX PIPE
AFC... FF	Ø 80/125 mm in the boiler room Ø 80 mm (rigid) in the chimney	Package n°	DY717	DY758	DY763	DY131	-
			Ref. 84887717	84887758	84887763	84887531	-
		Quick Kit or	DY925 (perpendicular)	-	-	-	DY897 (12,5 m) (1)
			Ref. 7650958	-	-	-	100015327
Ø 80/125 mm in the boiler room Ø 80 mm (flex) in the chimney	Package n°	DY927 + DY899	-	-	-	DY897 (12,5 m) (1)	
		Ref. 7650964 + 100015329	-	-	-	100015327	

(1) other lengths of flex pipes available: see following pages.



- 1 Air/flue gas terminal with flashing
- 1a Black PPS finishing tube for DY895
- 2 centring stars
- 4 87° elbow
- 4a Adapter
- 5 Support rail
- 6 0.5 m extension kit
- 9 Finishing plate

- 9b Finishing plate Ø 80/125 mm (with elbow) for flex pipe
- 9c Finishing plate Ø 80/125 mm (without elbow) for flex pipe
- 10 Sleeve, 0.5 m
- 11 0.5 m extension extension
- 23 Concentric inspection elbow

REFERENCE FOR THE OTHER PPS ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

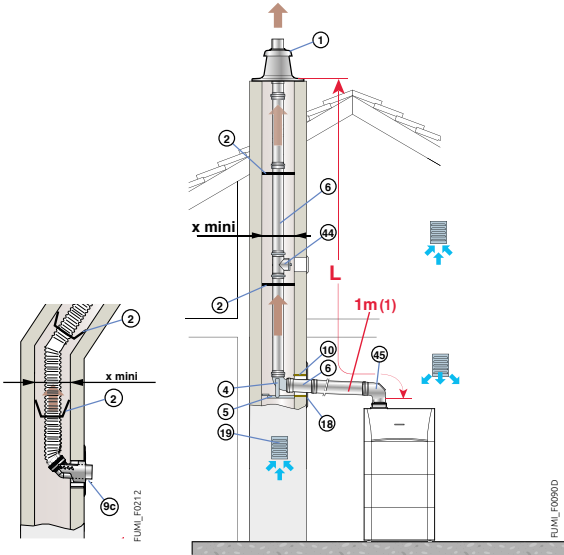
FOR **MODULES O®**

6 Classification B_{23P} - Connection to a chimney
(combustive air taken from the boiler room)

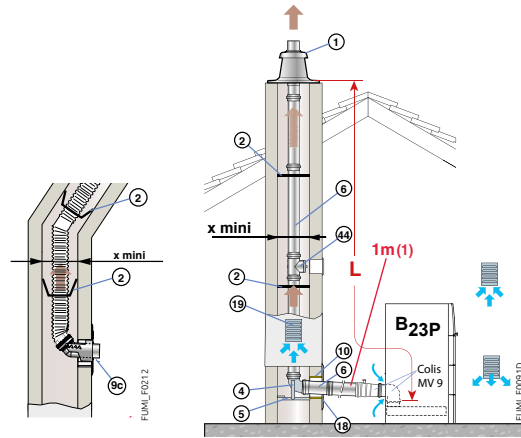
L_{max} (m)

	Ø 80 mm RIGID	Ø 80 mm FLEX
AFC... E	18	15
x mini	140	140
Ø	160	160

• Top outlet



• Rear outlet with "back outlet kit"



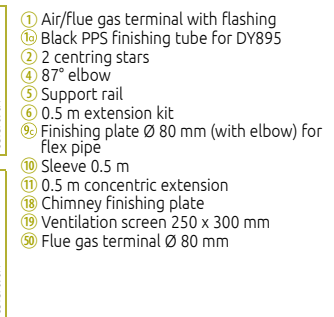
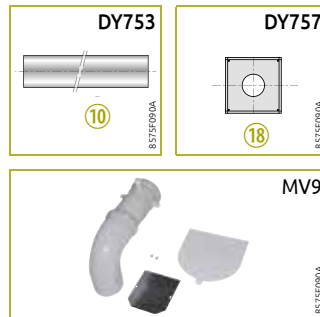
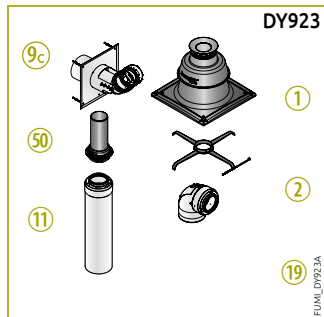
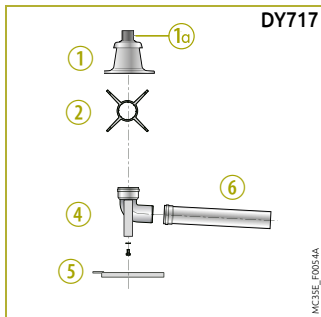
Attention: to prevent noise transmission, do not brick the pipe into the chimney

(1) The maximum lengths (L_{max}) given in the table are valid for pipes whose horizontal lengths do not exceed a total of 1 meter. For each additional meter of horizontal pipe, remove 1.2 m from the vertical lengths L_{max} show in the table above.

PPS FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR CONNECTION TO A CHIMNEY

	BOILER TYPE	CONNECTION Ø		CHIMNEY CONNECTION KIT	FINISHING PLATE	SLEEVE	FLEX PIPE	87° ELBOW	BACK OUTLET KIT
TOP OUTLET	AFC-S	- Ø 80 mm (rigid)	Package n°	DY717	DY757	DY753	-	DY877	-
			Ref.	84887717	84887757	84887753	-	100008301	-
REAR OUTLET	AFC-S	- Ø 80 mm (flex)	Quick Kit	DY923	-	DY897 (lg 12.5 m) (1)	DY877	-	-
			Ref.	7650954	-	100015327	100008301	-	-
REAR OUTLET	AFC-S	- Ø 80 mm (rigid)	Package n°	DY717	DY757	DY753	-	-	MV9
			Ref.	84887717	84887757	84887753	-	-	100017720
REAR OUTLET	AFC-S	- Ø 80 mm (flex)	Quick Kit	DY923	-	DY897 (lg 12.5 m) (1)	-	-	MV9
			Ref.	7650954	-	100015327	-	-	100017720

(1) other lengths of flex pipes available: see following pages



REFERENCE FOR THE OTHER PPS ACCESSORIES AVAILABLE: see following pages.

EQUIPMENT - FLUE SYSTEMS

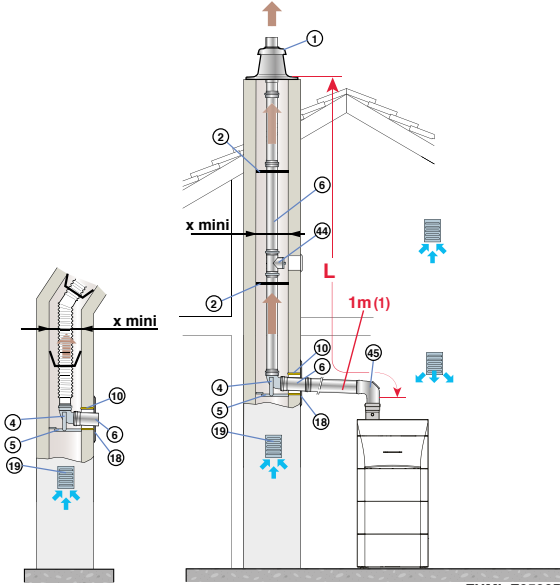
FOR **MODULENS O® PRO PFC 45/60**

6 Classification B_{23P} - Connection to a chimney
(combustive air taken from the boiler room)

L_{MAX} (m)

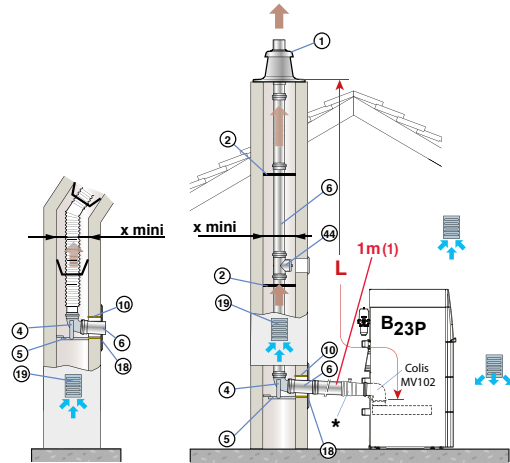
	Ø 110 mm RIGID	Ø 110 mm FLEX
PFC 45/60	35	30
x mini	170	170
Ø	190	190

• Top outlet



FUML_E0590

• Rear outlet with "back outlet kit" with option MV102



FUML_E0691

Attention: to prevent noise transmission, do not brick the pipe into the chimney

(1) For each additional meter of horizontal pipe, remove 1.2 m from the vertical lengths L_{max} show in the table above.

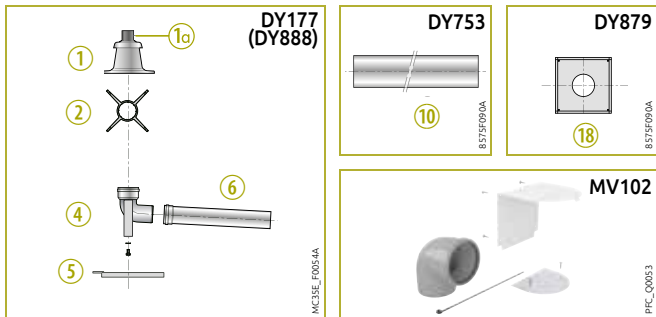
(1) For each additional meter of horizontal pipe, remove 1.2 m from the vertical lengths L_{max} show in the table above.

* Connecting part to remove from the smoke outlet on the MV102 rear kit.

PPS FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR CONNECTION TO A CHIMNEY

	BOILER TYPE	CONNECTION Ø	CHIMNEY CONNECTION KIT	FINISHING PLATE	SLEEVE	ELBOW	FLEX PIPE	BACK OUTLET KIT
TOP OUTLET	PFC 45/60	- Ø 110 mm (rigid)	Package n° Ref 84887577	DY177 84887573	DY753 100010270	DY879 84887588	DY188 DY889 (15 m) (1)	-
		- Ø 110 mm (flex)	Package n° Ref 100015287	DY888 84887588	-	-	100015288	-
REAR OUTLET	PFC 45/60	- Ø 110 mm (rigid)	Package n° Ref 84887717	DY717 84887753	DY753 100010270	DY879 7653437	-	MV102
		- Ø 110 mm (flex)	Package n° Ref 100015287	DY888 100015288	-	-	DY889 (15 m) (1) 7653437	MV102

(1) Other lengths of flex pipes available: see following pages



- ① Air/flue gas terminal with flashing
- ①a Black PPS Finishing tube
- ② Centring stars
- ④ Elbow 87°
- ⑤ Support rail
- ⑥ 0.5 m extension kit
- ⑩ 0.5 m galvanised sleeve
- ⑱ Finishing plate

REFERENCE FOR THE OTHER PPS ACCESSORIES AVAILABLE: see following pages.

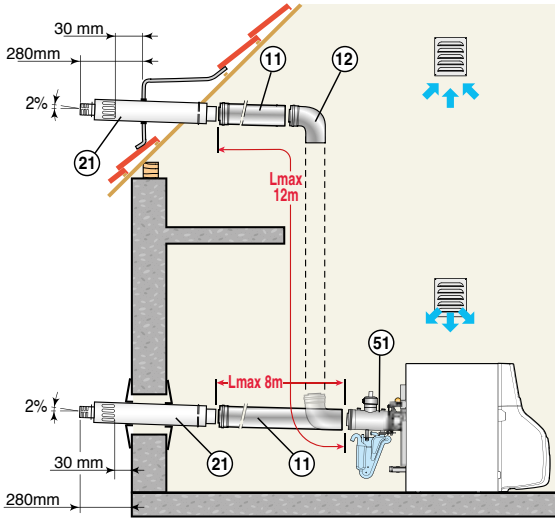
EQUIPMENT - PPS FLUE SYSTEMS

FOR CFU ECONOX

1 Classification C₁₃ - Concentric horizontal forced flue

	L _{MAX} (m)
CFU... FF HOR	12 (1)

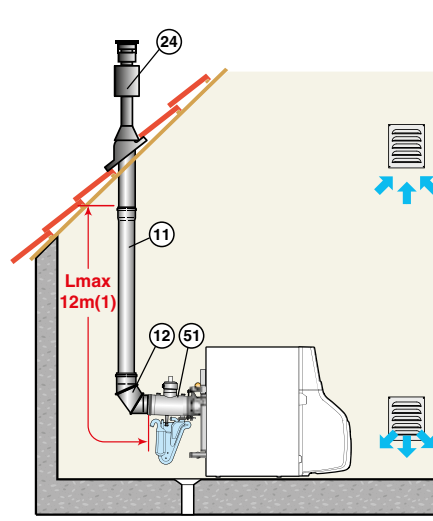
(1) with a horizontal pipe not exceeding 8 m.



CF_F0054

2 Classification C₃₃ - Concentric vertical forced flue

	L _{MAX} (m)
CFU... FF VER	12

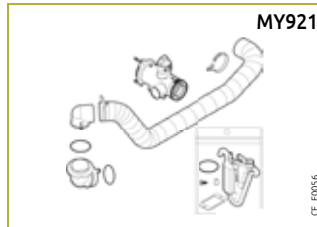
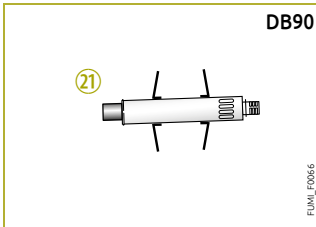


CF_F0055

(1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length L_{max} shown in the table below

STAINLESS STEEL FLUE SYSTEMS ACCESSORIES FOR HORIZONTAL FLUE CONFIGURATION

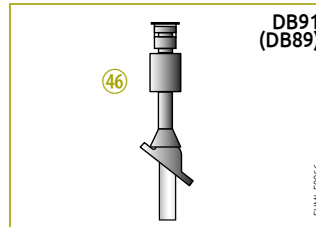
Horizontal air/flue gas terminal Ø 80/125 mm, telescopic from 70 to 90 mm	Package n°	DB90
	Ref.	81998533
FF adapter set CFU 22 to 29	Package n°	MY921
	Ref.	7742057



21 Horizontal air/flue gas terminal

STAINLESS STEEL FLUE SYSTEMS ACCESSORIES FOR VERTICAL FLUE CONFIGURATION

Vertical air/flue gas terminal Ø 80/125 mm	black	Package n°	DB91
		Ref.	81998534
or	red	Package n°	DB89
		Ref.	81998543
87° elbow		Package n°	DB96
		Ref.	81998539



46 Vertical air/flue gas terminal
Ø 80/125 mm

(1) -L_{max} is measured by adding the lengths of the straight air/flue gas pipes and the equivalent lengths of the other concentric sections (1 x 90° elbow = 1.3 m, 1 x 45° elbow = 0.8 m, 1 x 90° inspection elbow = 1.4 m, 1 inspection sleeve = 0.3 m).
 - This length corresponds to the max length that can be installed for a boiler.
 - Up to 2000 m above sea level. For a boiler installed higher above sea level, this max length and the useful nominal output of the boiler are reduced.
 - The use of the silencer cartridge (available as an option) brings an additional pressure drop equivalent to 2 m.
 NB: A protection basket is required to cover the horiz. air/flue gas terminal when this comes out less than 1.80 m above ground level.

OTHERS FLUE SYSTEMS ACCESSORIES AVAILABLE

STAINLESS STEEL ACCESSORIES

	PACKAGE	REF.
- Ø 80/125 mm		
Long horizontal air/flue gas terminal	DB87	81998544
Silencer cartridge for horizontal air/flue gas terminal	DB88	81998545
Extension:		
• lg 1 m	DB92	81998535
• lg 0.5 m	DB93	81998536
• lg 0.25 m	DB94	81998537
Compensation sleeve from 0.39 to 0.64 m	DB95	81998538
90° elbow	DB96	81998539
Set of 2 x 45° elbows	DB97	81998540
0.25 m inspection sleeve	DB85	81998548
90° inspection elbow	DB86	81998549

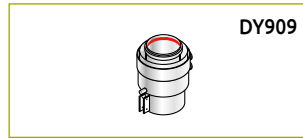
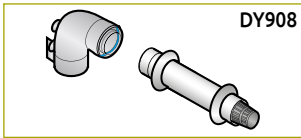
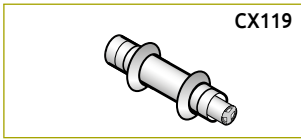
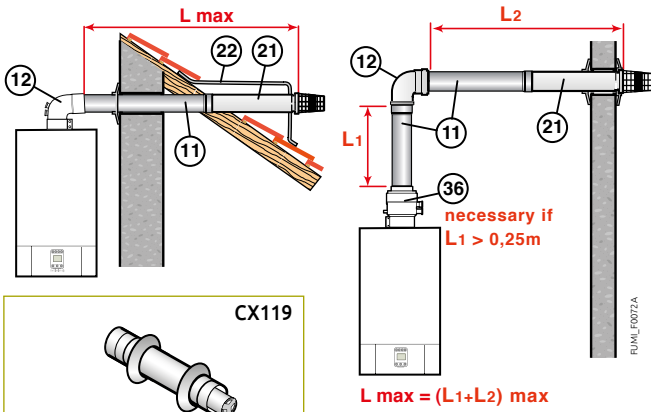
ACCESSORIES

	PACKAGE	REF.
- Common accessories		
Fastening collar Ø 125 mm short lug	CX79	84837779
Fastening collar Ø 125 mm long lug	CX118	84837118
Roof outlet for a slope of 40 to 60° (only for mechanical tiles)	CX49	84837729
Roof outlet for slope of 30 to 45°	DY11	84887411
Stainless steel protection basket	DB99	81998542
Flue tile:		
• 5 to 25° black	CX121	84837121
• 25 to 45° black	CX52	84837732
• 35 to 55° black	CX63	84837734
• 5 to 25° black	CX120	84837120
• 25 to 45° black	CX83	84837783
• 35 to 55° red	CX84	84837784
Water tightness bed plate for flat roof	CX51	84837731
Internal finishing plate	CX72	84837741

EQUIPMENT - FLUE SYSTEMS

FOR ZENA MS AND ZENA PLUS MSL ... FF

1 Classification C_{12x} - connection to a horizontal air/flue gas terminal



L_{MAX} (m)
 Ø 60/100 MM Ø 80/125 MM

MS... FF	4	10
MSL 24 (MI) FF	5	9
MSL 28 MI FF	4	8
MSL 31 (MI) FF	3	7

ALUM. FLUE SYSTEMS NEED FOR CONNECTION TO A HORIZONTAL AIR/FLUE GAS TERMINAL

Horizontal forced flue Ø 60/100 mm, lg 800 mm	Package n° Ref.	DY908 100016485
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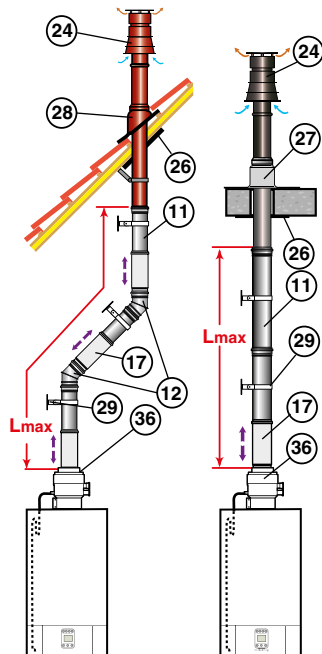
FLUE SYSTEMS ACCESSORIES TO ORDER AT LEAST IN CASE OF CONNECTION TO A HORIZONTAL AIR/FLUE GAS TERMINAL Ø 80/125 MM

Horiz. air/flue gas terminal Ø 80/125 mm	Package n° Ref.	CX119 84837119
Recuperator Ø 60/100 to 80/125 mm	Package n° Ref.	DY909 100016486
87° elbow	Package n° Ref.	CX76 84837743

REFERENCE FOR THE OTHER ALUMINIUM ACCESSORIES AVAILABLE: see previous pages.

2 Classification C_{32x} - connection to a vertical air/flue gas terminal

Connection to a roof:
 • Sloping/flat

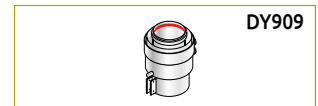
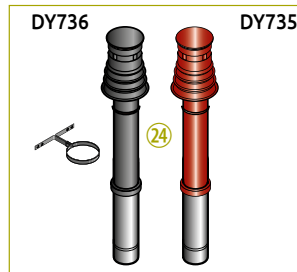


L_{MAX} (m)
 Ø 80/125 MM ON ROOF Ø 80/125 MM EXTERNAL MOUNTING

MS... FF	9	7
MSL... FF	8	-

ALUM. FLUE SYSTEMS NEED FOR CONNECTION TO A VERTICAL AIR/FLUE GAS TERMINAL

Vertical forced flue Ø 80/125 mm	black	Package n° Ref.	DY735 84887735
	red	Package n° Ref.	DY736 84887736
Condensates adapter-recuperator Ø 60/100 to 80/125 mm		Package n° Ref.	DY909 100016486

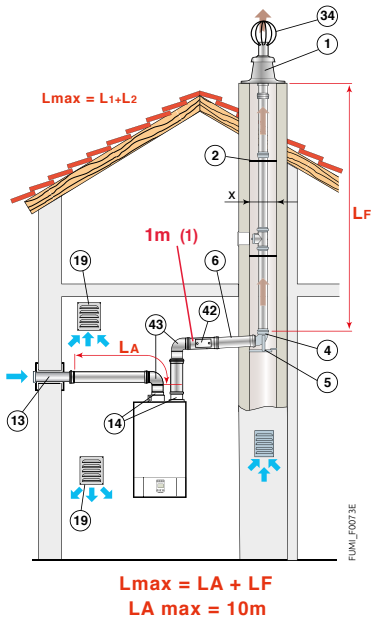


REFERENCE FOR THE OTHER ALUMINIUM ACCESSORIES AVAILABLE:
 see previous pages.

EQUIPMENT - FLUE SYSTEMS

FOR ZENA MS AND ZENA MSL PLUS... FF

5 Classification C₅₂ - connection with separate air and flue gas pipes



L_{MAX} (m)

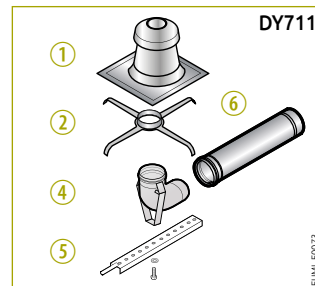
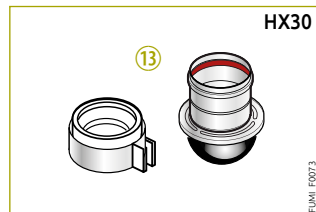
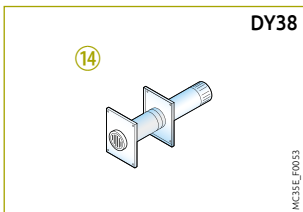
Ø 80 mm

MS... FF	30
MSL 24 (MI) FF	40
MSL 31 (MI) FF	25
MSL 28 MI FF	25
x mini	140
Ø (mm)	160

ALUM. FLUE SYSTEMS ACCESSORIES NEED AS A MINIMUM FOR CONNECTION AIR/FLUE WITH SEPARATE PIPES

Boiler type	Bi-flow adapter	Chimney connection kit Ø 80 mm	External air inlet
MS... FF	Package n° HX30 Ref: 100016413	DY711 84887711	DY38 84887438
MSL... FF	Package n° HX30 Ref: 100016413	DY711 84887711	DY38 84887438

(1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length L_{max} shown in the table below



- ① Air/flue gas terminal with flashing
- ② 2 centring stars
- ④ 87° elbow
- ⑤ Support rail
- ⑥ 0.5 m extension kit
- ⑬ External air inlet
- ⑭ Bi-flow adapter

REFERENCE FOR THE OTHER ALUMINIUM ACCESSORIES AVAILABLE: see previous pages.

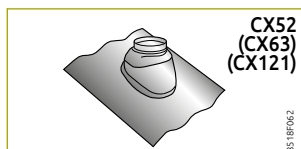
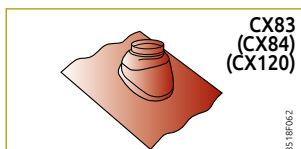
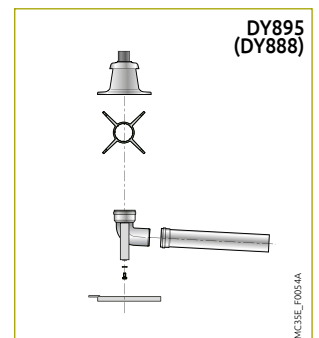
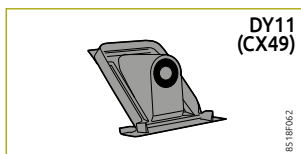
EQUIPMENT - FLUE SYSTEMS

ACCESSORIES (ALUMINIUM)

	PACKAGE	REF.
- Ø 80 mm		
Air/flue gas terminal with flashing (rigid pipe)	DY185	84887585
Stainless steel protection grill Ø 90 mm for roof outlet		300007172
Inspection T	DY738	84887738
Centring star (2-pieces)	DY151	84887551
Ø 80/125 mm on 2 x 80 mm adapter	DY819	100002361
Ø 60/100 mm on 2 x 80 mm adapter	DY723	84887723
Ø 60/100 mm on 2 x 80 mm adapter (MCR-P, MCA)	DY868	100005825
Ø 60/100 mm on 2 x 80 mm biflow adapter (Naneo)	HR70	5101711
Bi-flow adapter (MS)	HX30	100016413
Adapter Ø 80 to 100 mm (MCR-P, MCA)	DY768	84887768
External air inlet Ø 80 mm	DY38	84887438
- Ø 100 mm		
Chimney connection kit Ø 100 mm	DY633	84887633
Air/flue gas terminal with flashing (rigid pipe)	DY189	84887589
Stainless steel protection grill Ø 120 mm for roof outlet		300007173
Inspection T	DY739	84887739
Straight inspection pipe	DY624	84887624
500 mm (2-pieces) extension kit	DY625	84887625
1000 mm (2-pieces) extension kit	DY626	84887626
1950 mm (2-pieces) extension kit	DY627	84887627
87° elbow (1-piece)	DY629	84887629
45° elbow (2-pieces)	DY630	84887630
Centring star (2-pieces)	DY628	84887628
Bi-flow adapter Ø 100/150 to 2x100 mm (Innovens Pro)	DY907	5100626
Ø 100/150 mm on 2 x 100 mm adapter	DY820	100002362
External air inlet Ø 110 mm	DY810	100002285
Internal finishing plate	DY752	84887752
- Ø 60/100 mm		
Horizontal forced flue lg 800 mm	DY908	100016485
250 mm extension kit	DY746	84887746
500 mm extension kit	DY652	84887652
1000 mm extension kit	DY653	84887653
1950 mm extension kit	DY654	84887654
87° elbow (1 piece)	DY655	84887655
45° elbow (2 pieces)	DY656	84887656
Alu adjustable pipe Ø 60/100 mm	DY659	84887659
Inspection T-part Alu	DY660	84887660
Condensates collector Ø 60/100 mm	DY910	100016487
Connection kit to a collective conduit	DY911	100016488
- Ø 80/125 mm		
Condensates-recuperator adapter Ø 60/100mm to 80/125 mm	DY909	100016486
Black vertical forced flue	DY735	84887735
Red vertical forced flue	DY736	84887736
Horizontal forced flue Ø 80/125 mm lg. 730 mm	CX119	84837119
250 mm extension kit	CX64	84837735
500 mm extension kit	CX65	84837736
1000 mm extension kit	CX66	84837737
Compensation sleeve Ø 80/125 mm	CX67	84837738
87° elbow (1 piece)	CX76	84837743
45° elbow (2 pieces)	CX68	84837739
Installation kit for external mounting	DY60	84887460
Waterlight clams for external mounting	DY51	84887451

ACCESSORIES (ALUMINIUM/PPS)

	PACKAGE	REF.
Roof outlet (dormer window) for: Ø 60/100 mm, Ø 80/125 mm or Ø 100/150 mm		
• for slope of 30 to 45°	DY11	84887411
• for slope of 40 to 55°	CX49	84837729
Ø 80/125 mm flue tile:		
• black for slope of 5 to 25°	CX121	84837121
• black for slope of 25 to 45°	CX52	84837732
• black for slope of 35 to 55°	CX63	84837734
• red for slope of 5 to 25°	CX120	84837120
• red for slope of 25 to 45°	CX83	84837783
• red for slope of 35 to 55°	CX84	84837784
Ø 100/150 mm flue tile:		
• black for slope of 25 to 45°	CX104	84827104
• red for slope of 25 to 45°	CX106	84827106
Water tightness bed plate for flat roof:	CX51	84837731
• Ø 80/125 mm		
• Ø 100/150 mm	CX103	84827103
Interior finishing plate:		
• Ø 80/125 mm	CX72	84837741
• Ø 100/150 mm	CX115	84827115
Ø 125 mm fastening collar short lug	CX118	84837118
Ø 125 mm fastening collar long lug	CX79	84837779
Ø 150 mm fastening collar long lug	CX111	84827111
External ventilation screen	DY35	84887435
Internal ventilation screen	DY36	84887436
Ø 60/100 mm stainless steel protection basket	DY166	84887566
Ø 80/125 mm stainless steel protection basket	DY865	100005002
Ø 100/150 mm stainless steel protection basket	DY866	100005004



EQUIPMENT - ALUMINIUM FLUE SYSTEMS

ACCESSORIES PPS

	PACKAGE	REF.
Ø 60/100 mm		
Horizontal forced flue with inspection T	DY872	100008297
Horizontal forced flue with elbow	DY871	100008296
Horizontal forced flue with inspection elbow	HR48	100013756
Horizontal forced flue with recentering elbow	DY885	100011888
Horizontal raised forced flue with recentering elbow	DY886	100013303
Terminal retrofit	DY912	100017526
Boiler connection kit	DY702	84887702
500 mm extension kit	DY681	84887681
1000 mm extension kit	DY682	84887682
1950 mm extension kit	DY683	84887683
90° elbow (1 piece)	DY684	84887684
45° elbow (2 pieces)	DY685	84887685
30° elbow (2 pieces)	DY686	84887686
15° elbow (2 pieces)	DY687	84887687
90° reduced elbow	JA43	100018253
90° reduced elbow (EMC/PMC-S)	HR67	5101712
Straight inspection pipe	DY689	84887689
Compensation sleeve	DY688	84887688
Inspection T	DY737	84887737
Ø 80/125 mm		
Connection kit flue system	DY887	100014000
Connection kit flue system (Naneo)	DY921	100020019
Horizontal forced flue with inspection elbow	DY882	100011365
Horizontal forced flue	FM183	100007638
Vertical forced flue		
• black	DY843	100002732
• red	DY844	100002733
Boiler connection kit	DY716	84887716
Boiler connection kit B _{23P}	DY913	100017527
Perpendicular boiler connection kit	DY849	100003271
Pipe boiler connection kit	DY850	100003272
Ø 60/100 mm on 80/125 mm adapter	DY708	84887708
250 mm extension kit	DY126	84887526
500 mm extension kit	DY127	84887527
1000 mm extension kit	DY128	84887528
1950 mm extension kit	DY129	84887529
Inspection T	DY125	84887525
Straight inspection pipe	DY124	84887524
Inspection elbow	DY875	100008311
87° elbow	DY131	84887531
45° elbow (2-pieces)	DY132	84887532
Compensation sleeve	DY130	84887530
Condensate collector	DY916	100018981
Finishing plate Ø 125 mm with connecting piece	DY758	84887758
Sleeve Ø 141 mm	DY763	84887763
Adapter Ø 80/125 mm (MCA)	HR38	5100465
Adapter Ø 80/125 mm (Naneo)	HR68	5101688
- Ø 110/150 mm		
Horizontal forced flue kit	DY881	100011364
Vertical forced flue kit, black	DY845	100002734
Boiler connection kit	DY818	100002360
Boiler connection kit B _{23P}	DY914	100017529
Ø 100/150 mm on 110/150 mm adapter	DY817	100002357
500 mm extension kit	DY811	100002351
1000 mm extension kit	DY812	100002352
Inspection T	DY816	100002356
Straight inspection pipe	DY815	100002355
87° elbow	DY813	100002353
45° elbow (2-pieces)	DY814	100002354
Condensate collector	DY918	100018984
- Ø 60 mm		
Chimney connection kit	DY700	84887700
Inspection T	DY741	84887741
Straight inspection pipe	DY698	84887698
500 mm (2-pieces) extension kit	DY690	84887690
1000 mm (2-pieces) extension kit	DY691	84887691
1950 mm (2-pieces) extension kit	DY692	84887692
87° elbow (1-piece)	DY693	84887693
45° elbow (2-pieces)	DY694	84887694
Centring star (2-pieces)	DY673	84887673
- Ø 80 mm		
Finishing plate	DY757	84887757
Sleeve Ø 124 mm	DY753	84887753
Adapter Ø 80/110 mm (GTU C 120)	DY902	100015318
Boiler connection kit Ø 60/100 mm on Ø 80/125 mm adapter	DY718	84887718
Chimney connection kit with Ø 80 mm on Ø 60 mm adapter	DY701	84887701
Rigid chimney connection kit	DY717	84887717
Air/flue gas terminal with flashing (rigid pipe)	DY185	84887585

ACCESSORIES PPS

	PACKAGE	REF.
Stainless steel protection screen Ø 90 mm for roof outlet		300007172
Inspection T	DY163	84887563
Inspection elbow	DY877	100008301
Straight inspection pipe	DY146	84887546
250 mm (2 pieces) extension kit	DY613	84887613
500 mm (2 pieces) extension kit	DY614	84887614
1000 mm (2 pieces) extension kit	DY615	84887615
1950 mm (2 pieces) extension kit	DY150	84887550
- Ø 80 mm (contd.)		
Sleeve with measuring point (lg 160 mm) (GTU C 120)	DY903	100015319
87° elbow (1 piece)	DY152	84887552
45° elbow (2 pieces)	DY154	84887554
Condensate collector	DY919	100018985
Flex chimney connection kit	DY151	84887551
- Ø 80 mm (flex)		
Quick chimney connection kit:		
• B ₂₃	DY923	7650954
• B ₃₃	DY924	7650956
• B ₃₃ (perpendicular)	DY925	7650958
• B ₃₃ (under chimney-telescopic)	DY927	7650964
Mitron terminal (black)	DY926	7650963
Flex chimney connection kit	DY895	100015325
Air/flue gas terminal with flashing for flex	DY899	100015329
Stainless steel protec. screen Ø 90 mm for roof outlet		300007172
Flex pipe (12.5 m)	DY897	100015327
Flex pipe (50 m)	DY896	100015326
Coupling part for flex pipe	DY898	100015328
Inspection pipe for flex pipe	DY900	100015330
Flex pipe insertion tool	DY901	100015331
Centring star (2 pieces)	DY618	84887618
Adapter PPS Ø 80 mm	DY904	100015880
- Ø 110 mm		
Adapter Ø 100/150 on 110/150 mm	DY817	100002357
Adapter Ø 150 to 110 mm	DY915	100017634
Chimney connection kit with Ø 80 mm on Ø 110 mm adapter	DY876	100008312
Chimney connection kit (rigid)	DY177	84887577
Air/flue gas terminal with flashing (rigid pipe)	DY189	84887589
Stainless steel protection screen Ø 120 mm for roof		300007173
Inspection tube	DY183	84887583
Inspection elbow	DY188	84887588
500 mm extension kit	DY180	84887580
1000 mm extension kit	DY179	84887579
1950 mm extension kit	DY178	84887578
87° elbow	DY181	84887581
45° elbow	DY182	84887582
Condensate collector	DY917	100018983
Internal finishing plate	DY879	100010270
Centring collar (2 pieces)	DY187	84887587
- Ø 110 mm (flex)		
Flex chimney connection kit	DY888	100015287
Air/flue gas terminal with flashing (flex pipe)	DY892	100015322
Stainless steel protec. screen Ø 120 mm for roof outlet		300007173
Flex pipe (15 m)	DY889	100015288
Flex pipe (25 m)	DY890	100015289
Coupling part for flex pipe	DY891	100015321
Flex pipe insertion tool	DY894	100015324
Centring star (4 pieces)	DY805	100002280
Adapter PPS Ø 110 mm	DY905	100015881

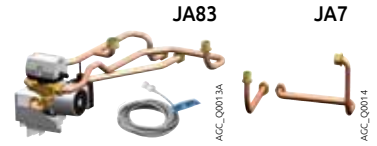
ACCESSORIES (ALU/PPS)

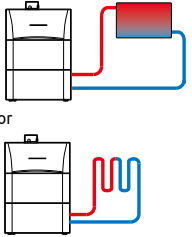
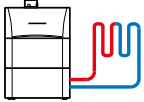
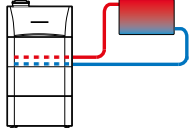
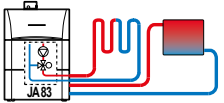
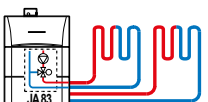
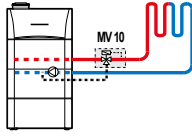
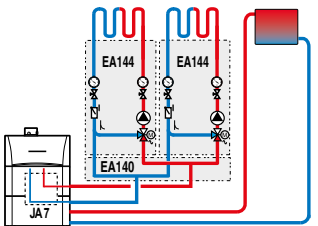
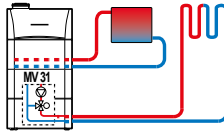
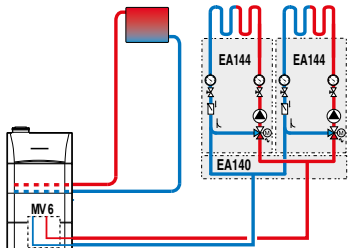
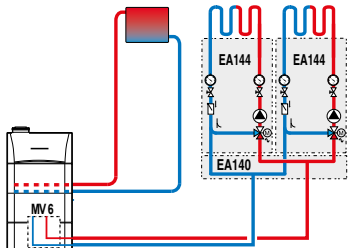
	PACKAGE	REF.
Roof outlet (dormer window) for Ø 60/100 mm, Ø 80/125 mm or Ø 110/150 mm:		
• for slope of 30 to 45°	DY11	84887411
• for slope of 40 to 55°	CX49	84837729
Ø 80/125 mm flue tile:		
• black for slope of 5 to 25°	CX121	84837121
• black for slope of 25 to 45°	CX52	84837732
• black for slope of 35 to 55°	CX63	84837734
• red for slope of 5 to 25°	CX120	84837120
• red for slope of 25 to 45°	CX83	84837783
• red for slope of 35 to 55°	CX84	84837784
Ø 110/150 mm flue tile:		
• black for slope of 25 to 45°	CX104	84827104
• red for slope of 25 to 45°	CX106	84827106
Water tightness bed plate for flat roof:		
• Ø 80/125 mm	CX51	84837731
• Ø 110/150 mm	CX103	84827103
Interior finishing plate:		
• Ø 80/125 mm	CX72	84837741
• Ø 110/150 mm	CX115	84827115
Ø 125 mm fastening collar short lug	CX118	84837118
Ø 125 mm fastening collar long lug	CX79	84837779
Ø 150 mm fastening collar long lug	CX111	84827111
External ventilation screen	DY35	84887435
Internal ventilation screen	DY36	84887436
Ø 60/100 mm stainless steel protection basket	DY166	84887566
Ø 80/125 mm stainless steel protection basket	DY865	100005002
Ø 110/150 mm stainless steel protection basket	DY866	100005004

EQUIPMENT - HYDRAULIC MODULES

FOR **MODULENS G®** AND **MODULENS O®** BOILERS

Using the various options presented on the next page, it is possible to put together complete hydraulic connection kits depending on the installation to be constructed.
List of packages required according to the type of installation to realize:



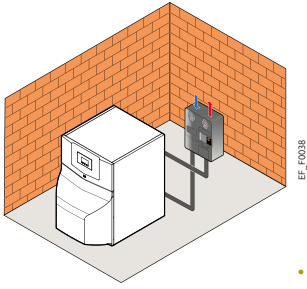
BOILER TYPE ▶ TYPE OF INSTALLATION TO BE CONSTRUCTED ▼	MODULENS G® AGC	BOILER TYPE ▶ TYPE OF INSTALLATION TO BE CONSTRUCTED ▼	MODULENS O® AFC-S
<p>1 direct radiators circuit or underfloor heating</p>  <p>or</p> 	<p>-</p> <p>+ Control unit options: -</p>	<p>1 direct radiators circuit or underfloor heating</p> 	<p>-</p> <p>+ Control unit options: -</p>
<p>1 circuit with mixing valve + 1 direct radiators circuit (or underfloor heating)</p>  <p>or</p> 	<p>JA83</p> <p>+ Control unit options: -</p> <p>(sensor integrated in JA 83)</p>	<p>1 circuit with mixing valve + 1 direct radiators circuit</p> 	<p>MV10 (1)</p> <p>+ Control unit options: -</p>
<p>3 circuits including 2 with mixing valve</p> 	<p>JA7 + EA140 + 2 x EA144</p> <p>+ Control unit options: 1 x AD199 + 1 x AD249</p>	<p>1 circuit with mixing valve + 1 direct radiators circuit</p> 	<p>MV31</p> <p>+ Control unit options: -</p> <p>(sensor integrated in MV31)</p>
<p>3 circuits including 2 with mixing valve or 2 circuits with mixing valve</p> 	<p>JA7 + EA140 + 2 x EA144</p> <p>+ Control unit options: 1 x AD199 + 1 x AD249</p>	<p>3 circuits including 2 with mixing valve or 2 circuits with mixing valve</p> 	<p>MV6 + EA140 + 2 x EA144</p> <p>+ Control unit options: 1 x AD199 + 1 x AD249</p>

(1) +MV10 when connected a direct underfloor heating circuit.

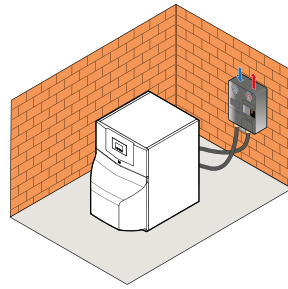
EQUIPMENT - HYDRAULIC MODULES

FOR CF/CFU ECONOX AND CFU C...CONDENS BOILER (WITHOUT HYDRAULIC SET MY445)

Using the various options presented on the next page, it is possible to put together complete hydraulic connection kits depending on the installation to be constructed.
List of packages required according to the type of installation to realize:



• Self supporting modules



• Hydraulic modules mouting on wall



BOILER TYPE ▶		BOILER TYPE ▶	
TYPE OF INSTALLATION TO BE CONSTRUCTED	CF/CFU ECONOX	TYPE OF INSTALLATION TO BE CONSTRUCTED	CFU C...CONDENS CF/CFU ECONOX
1 direct circuit	<p>MY460 (connecting to the right) or MY465 (connecting to the left) + EA143</p> <p>+ Control unit options -</p>	<p>MY470 (Central, to the right or to the left connecting pipes) + EA142 + EA143</p> <p>+ Control unit options -</p>	
1 circuit with mixing valve	<p>MY460 (connecting to the right) or MY465 (connecting to the left) + EA144</p> <p>+ Control unit options MY440</p>	<p>MY470 (Central, to the right or to the left connecting pipes) + EA142 + EA144</p> <p>+ Control unit options MY440</p>	
1 direct circuit + 1 circuit with mixing valve	<p>MY460 (connecting to the right) or MY465 (connecting to the left) + EA140 + EA143 + EA144</p> <p>+ Control unit options MY440</p>	<p>MY470 (Central, to the right or to the left connecting pipes) + EA140 + EA141 + EA143 + EA144</p> <p>+ Control unit options MY440</p>	
2 circuits with mixing valve (CFU 36 and 46)	<p>MY460 (connecting to the right) or MY465 (connecting to the left) + EA140 + 2 x EA144</p> <p>+ Control unit options 2 x MY440</p>	<p>MY470 (Central, to the right or to the left connecting pipes) + EA140 + EA141 + 2 x EA144</p> <p>+ Control unit options 2 x MY440</p>	
3 circuits, 2 of them with a mixing valve (CFU 36 and 46)	<p>MY460 (connecting to the right) or MY465 (connecting to the left) + EA140 + 2 x EA144</p> <p>+ Control unit options 2 x MY440</p>	<p>MY470 (Central, to the right or to the left connecting pipes) + EA140 + EA141 + EA143 + 2 x EA144</p> <p>+ Control unit options 2 x MY440</p>	

* Option

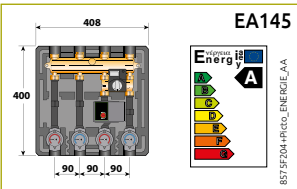
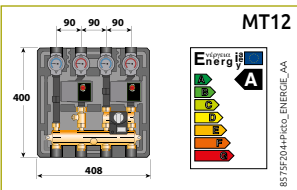
EQUIPMENT - HYDRAULIC MODULES

DESCRIPTION OF THE VARIOUS PACKAGES

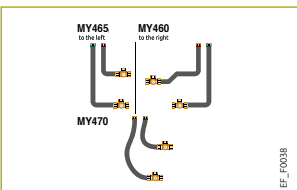
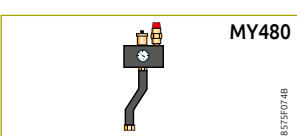
HYDRAULIC MODULE FOR 1 CIRCUIT

	PACKAGE	REF.
 <p>EA143</p>	EA143	100020167
 <p>EA144</p>	EA144	100020168
 <p>EA140</p>	EA140	100020164
 <p>EA142</p>	EA142	100020166
 <p>EA141</p>	EA141	100020165

COMPACT HYDRAULIC MODULE FOR 2 CIRCUITS

	PACKAGE	REF.
 <p>EA145</p>	EA145	100020169
 <p>MT12</p>	MT12	7616233

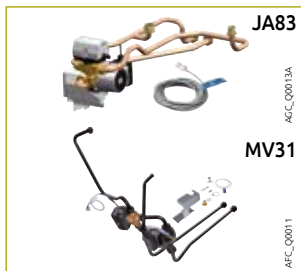
OPTIONS FOR HYDRAULIC MODULES

	PACKAGE	REF.
 <p>MY465 to the left MY460 to the right MY470</p>	MY460 MY465 MY470	7629813 7629815 7629824
 <p>MY480</p>	MY480	7629826

EQUIPMENT - HYDRAULIC MODULES

DESCRIPTION OF THE VARIOUS PACKAGES

FOR MODULENS G® AGC AND MODULENS O® AFC-S ONLY



PACKAGE REF.

Internal 3-way valve kit (with engine)
Permits the connection of a circuit with mixing valve.
This kit will be integrated under the casing.

It includes as standard the flow sensor AD199.

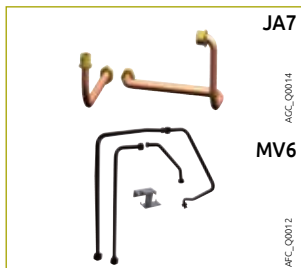
- for Modulens G® AGC...

JA83 **7602811**

- for Modulens O® AFC-S



MV31 **7608112**



Adaptation kit for external 3-way valve
Permits the connection of 2 circuits with mixing valve outside of the boiler.

- for Modulens G® AGC...

JA7 **100017390**

- for Modulens O® AFC-S

MV6 **100016490**



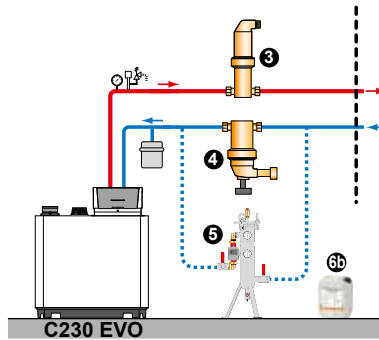
EQUIPMENT BOILER ROOM SELECTION GUIDE

For new-build or renovation projects, De Dietrich focuses on optimal research into energy performance over time.

From high-performance generators to boiler room equipment, we manufacture custom solutions that perfectly match your specifications. De Dietrich has developed a range of boiler room equipment to secure and future-proof systems up to 1300 kW.

NEW-BUILD SYSTEMS

- ① Circuit separation plate exchanger
- ② Air vent
- ③ Microbubble degasser
- ④ Sludge separator
- ⑤ Clarifier unit
- ⑥ SoluTECH, washing and desludging
- ⑦ SoluTECH, full protection



RENOVATED SYSTEMS

- With circuit separation exchanger and primary circuit treatment only
- With existing low-loss header
- Without low-loss header

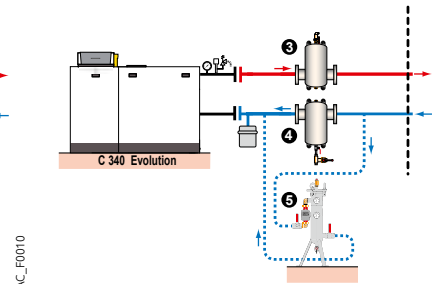
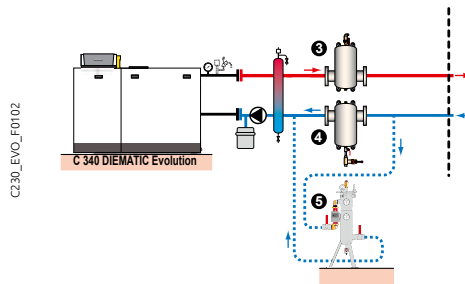
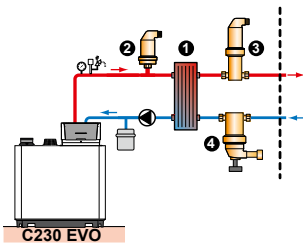


TABLE OF RECOMMENDATIONS

The table of recommendations below can be used to select the equipment to be ordered depending on your system configuration and the type of boiler used.

BOILER TYPE	① CIRCUIT SEPARATION PLATE EXCHANGER		② AIR VENT		③ MICROBUBBLE DEGASSER		④ SLUDGE SEPARATORS WITH MAGNET FOR FULL-FLOW ASSEMBLY		⑤ CLARIFIER UNITS FOR ASSEMBLY ON A BYPASS	
	TYPE	REF.	REF.	REF.	TYPE	REF.	TYPE	REF.	TYPE	REF.
AMC C 230 C 340 C 640 PRO EVO C140										
45-65 85				7650329	Rp 1" 1/4	7650330	Rp 1" 1/4 (3.7 m³/h)	7650376	DN32 (4 m³/h)	7651695
90-115 130				7650329	Rp 1" 1/2	7650333	Rp 1" 1/2 (5.0 m³/h)	7650377	DN32 (4 m³/h)	7651695
160 170				7650329	Rp 2"	7650334	Rp 2" (8 m³/h)	7650378	DN32 (4 m³/h)	7651695
210				7650329	Rp 2"	7650334	Rp 2" (8 m³/h)	7650378	DN32 (4 m³/h)	7651695
280				7650329	DN65	7650338	DN65 (20 m³/h)	7651722	DN32 (4 m³/h)	7651695
350				7650329	DN65	7650338	DN65 (20 m³/h)	7651722	DN32 (4 m³/h)	7651695
430				7650329	DN65	7650338	DN65 (20 m³/h)	7651722	DN32 (4 m³/h)	7651695
500		Accessory not supplied		7650329	DN65	7650338	DN65 (20 m³/h)	7651722	DN32 (9 m³/h)	7651698
570				7650329	DN80	7650339	DN80 (27 m³/h)	7651730	DN32 (9 m³/h)	7651698
650				7650329	DN80	7650339	DN80 (27 m³/h)	7651730	DN32 (9 m³/h)	7651698
560				7650329	DN80	7650339	DN80 (27 m³/h)	7651730	DN32 (9 m³/h)	7651698
700				7650329	DN80	7650339	DN80 (27 m³/h)	7651730	DN32 (9 m³/h)	7651698
860				7650329	DN100	7650340	DN100 (47 m³/h)	7651732	DN32 (9 m³/h)	7651698
1000				7650329	DN100	7650340	DN100 (47 m³/h)	7651732	DN32 (9 m³/h)	7651698
1140				7650329	DN100	7650340	DN100 (47 m³/h)	7651732	DN32 (9 m³/h)	7651698
1300				7650329	DN125	7660261	DN125 (72 m³/h)	7651733	DN32 (9 m³/h)	7651698

BOILER ROOM

BOILER ROOM EQUIPMENT

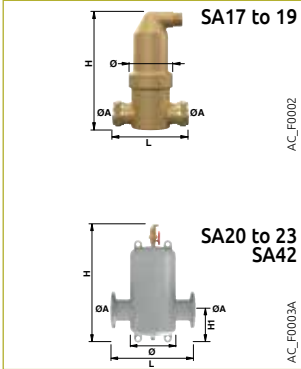


Automatic air vent 1/2" (10 bar)

Brass vent for efficient venting during filling and air intake during drainage. Its design makes it highly sensitive to clogging, optimises heat transmission and helps to reduce noise in the system.

PACKAGE REF.

SA16 7650329



Microbubble degasser (10 bar)

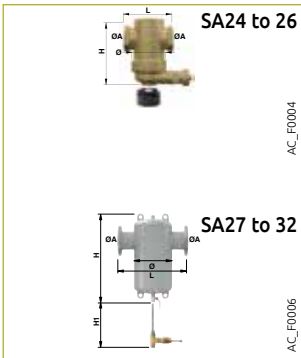
Degassers in brass (package SA17 to SA19) or steel (package SA20 to SA23) for horizontal assembly, with low pressure drops and equipped as standard with an efficient, reliable automatic air vent. They ensure highly efficient evacuation of the gas released into the air in heating systems.

Brass microbubble degasser Rp 1" 1/4	SA17	7650330
Brass microbubble degasser Rp 1" 1/2	SA18	7650333
Brass microbubble degasser Rp 2"	SA19	7650334
Steel microbubble degasser DN 50	SA20	7650336
Steel microbubble degasser DN 65	SA21	7650338
Steel microbubble degasser DN 80	SA22	7650339
Steel microbubble degasser DN 100	SA23	7650340
Steel microbubble degasser DN 125	SA42	7660261

DIMENSIONS

LEGEND

	SA17	SA18	SA19	SA20	SA21	SA22	SA23	SA42
H	202	236	277	603	603	718	718	893
L	-	-	-	152	162	158	168	214
H1	88	88	132	350	350	470	470	635
Ø	63	63	100	132	132	206	206	354
ØA	Rp 1" 1/4	Rp 1" 1/2	Rp 2"	DN50/PN16	DN65/PN16	DN80/PN16	DN100/PN16	DN125/PN16



Sludge separators with magnet (10 bar) for full-flow assembly

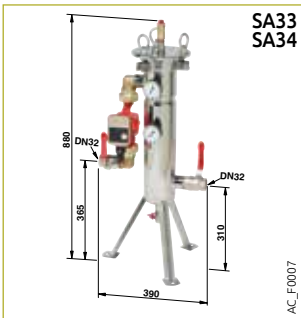
Brass vent for efficient venting during filling and air intake during drainage. Its design makes it highly sensitive to clogging, optimises heat transmission and helps to reduce noise in the system.

Brass sludge separator Rp 1" 1/4 (3,7 m³/h)	SA24	7650376
Brass sludge separator Rp 1" 1/2 (5,0 m³/h)	SA25	7650377
Brass sludge separator Rp 2" (8,0 m³/h)	SA26	7650378
Steel sludge separator DN 65 (20 m³/h)	SA27+SA31	7651722
Steel sludge separator DN 80 (27 m³/h)	SA28+SA31	7651730
Steel sludge separator DN 100 (47 m³/h)	SA29+SA31	7651732
Steel sludge separator DN 125 (72 m³/h)	SA30+SA32	7651733

DIMENSIONS

LEGEND

	SA24	SA25	SA26	SA27+SA31	SA28+SA31	SA29+SA31	SA30+SA32
H	140	174	215	502	617	617	792
L	88	88	132	350	470	470	635
H1	-	-	-	370	430	430	550
Ø	63	63	100	132	206	206	354
ØA	Rp 1" 1/4	Rp 1" 1/2	Rp 2"	DN65/PN16	DN80/PN16	DN100/PN16	DN125/PN16



Clarifier unit for bypass mounting

Clarifier units designed to continually eliminate both oxides and magnetizable particles using a powerful bar magnet, and solid impurities, sludge and suspended material using a filter bag to capture particles > 25 µm. They are supplied complete with a circulating pump, two control pressure gauges, inlet/outlet and vent valves, and an automatic vent; they are installed as a bypass on the heating return circuit (flow rate on bypass circuit: 15 to 30 % of nominal flow rate)

Clarifier unit (stainless steel body) DN32 (4 m³/h)	SA33	7651695
Clarifier unit (stainless steel body) DN32 (9 m³/h)	SA34	7651698

Consumables:

• 25 µm filter bag for SA33 and SA34 separator	SA35	7651699
• O-ring for SA33 and SA34 separator	SA36	7651700

Complete treatment process (clarifier unit + SoluTECH water treatment) under ATEC conditions for heating networks in all metals

EXTRACT FROM THE TERMS AND CONDITIONS OF SALE

Chapter I. - GENERAL CONDITIONS

1. Unless otherwise specifically stated in the text of any acceptances of order, the remittance of any order involves the acceptance by the purchaser of these general conditions of sale. It is expressly stipulated that all clauses printed in the margin or body of letters and/or order forms from the purchaser and contrary to these general terms and conditions of sale cannot be applied unless they have been subject to prior written agreement particular to the contract concerned.
4. The purchaser is bound with regard to us from the moment that any such order has been sent to us, either directly or through any one of our agents. Orders do not bind us in any way whatsoever, until express confirmation has been given on our part. No order shall be cancelled by the purchaser until an agreement has been reached by the parties in respect of the amount of compensation payable. We reserve the option to make the acceptance of an order dependent on the obtaining of accounting and financial documents and, if need be, guarantees.

Chapter II. - DELIVERIES

5. The goods shall be deemed to have been delivered to and accepted by the purchaser in our factories and payment shall be made on delivery: accordingly, whatever the origin and destination of the material and the terms and conditions of sale, notwithstanding the retention of title clause hereinafter, and except in the case of particular provisions expressly accepted by us, delivery and the transfer of risks to the purchaser are deemed to have been made to our factories or warehouses:
 - on despatch, if the material is to be shipped without prior notice;
 - as of the formal notification of the availability of the goods, if no shipment has been scheduled or is feasible, and if there is no acceptance in the factory;
 - 8 days after notification of the availability of the goods for acceptance in the factory, provided that this has been stipulated on the order and there is no response to the aforesaid notification;
 - on the acceptance given by the receiving agent, if acceptance takes place.
6. The aforesaid principle shall suffer no exemption by any directions such as: remittance free on rail and on a private branch line "on platform", "at domicile", in respect of which we act on behalf of and in the name of the purchaser and without having any effect on the transfer of responsibility to the purchaser.

6 CONT. - RETENTION OF TITLE CLAUSE

1. The transfer of the ownership of the goods for the benefit of the purchaser is deferred until such time as full payment of the invoiced price has been made. In this respect, the remittance of drafts or securities giving rise to any obligation to pay, do not constitute the payment intended. The payment shall not be deemed as having been effected until collection by us of full payment and accessories.
2. For the duration of the period of our retention of title, all risks to the goods are transferred to the purchaser, who accepts this from such time as the goods are officially put at his disposal, that is to say, from their departure from our factories or warehouses. The purchaser shall insure the goods against all risks of damage and liabilities caused or sustained by the said goods, whatever the cause.
3. The purchaser shall inform us immediately of any threat, action, seizure, requisition, confiscation or any other measure which could call into question our rights of ownership to the goods.
4. At any moment, notably, in the case of any failure to pay, and following a simple request on our part, the purchaser undertakes to make an inventory, in our presence, of the appliances bearing our trademark.
5. In the absence of express contrary instructions, which we reserve the right to issue at any moment without prior notice, the purchaser shall be authorised to resell the goods delivered, provided that he has returned to us the draft issued on delivery of the order, which has been duly accepted; in consideration, he agrees and undertakes, should we express such a wish, to immediately assign to us all the debts arising from the resale of the goods. Either when all payments are suspended by the purchaser or when there is a failure to remit payment before any one of the due dates agreed upon between us, the purchaser shall be expressly prohibited with immediate effect from re-selling the goods.
6. Should total or partial payment not have been made on the due date, we shall be entitled, without losing any of our other rights to:
 - claim the goods at the expense and risk of the purchaser: it is agreed that the goods bearing our trademark, which are still

in the possession of the purchaser shall be presumed to be those still unpaid. If the invoice or invoices, which have not been settled in totality, concern several appliances or parts, we shall be fully within our rights to extend our claim to all the appliances or parts in question; and/or

- declare, at any moment whatsoever, the sale as being null and void, with immediate effect, our wish being expressed in a registered letter with acknowledgement of receipt.

Chapter III. - PRICE

9. All deliveries shall be invoiced in accordance with the price prevailing on the day of shipment.

Chapter IV. - DELIVERY TIMES

12. The delivery times are, in principle, given only as a general indication. Any delay whatsoever in delivery shall not result in any indemnification or damages unless it has been expressly stated to be the case either in the text of our proposals or in our final agreement and provided that the delay is not attributable to a case of force majeure. In any event, delivery within these times can take place only if the purchaser has complied with his obligations to us, whatever their provenance. In particular, we shall be fully within our rights to be discharged of all undertakings pertaining to the delivery times should the applicable payment terms not have been observed by the purchaser as defined above (Art. 5 - Chap. II).

Chapter V. - PAYMENT TERMS

14. For regular orders, our goods are payable at 30 days from the date of shipment, or, failing that, from the date when the goods are made available under the usual trade reference.
17. The invoices are to be paid at the Registered Office in Mertzwiller. In the case of payment by draft, the purchaser shall accept the draft within a time limit of 10 days from the date of its issue and shall indicate its bank references: any resulting charges shall be borne by the purchaser. Failure to return the draft within the time limit fixed is considered to be a refusal to accept it, equivalent to a refusal to pay. Our drafts and, as a general rule, the different methods of payment which we accept, shall not modify or alter in any respect the clause in this contract determining the competent jurisdiction.

If the payment of the invoice is effected in its entirety, before the date provided for by the terms and conditions of sale, the purchaser may be entitled to claim a discount calculated on the basis of the rate in force as set out in the invoice.

18. Failure to pay for our goods on the due date stated on the invoice shall entitle us, without prior notice, to:
 - a) Demand immediate payment of all sums due whatever the method of payment scheduled;
 - b) In compliance with applicable law, apply penalties for late payment equal to the most recent rate of refunding laid down by the European Central Bank marked up by 10 points; such rate shall not be less than three times the legal interest rate in France;
 - c) Instigate legal action to recover our debt, all costs whereof to be payable by the purchaser;
 - d) Demand immediate payment of the fixed indemnity of 40 euros as laid down in Articles L441-3 and L441-6 of the Commercial Code.

Furthermore, we reserve the right to claim damages from the purchaser in respect of prejudice suffered subsequent to late payments and immediately to defer all manufacture and delivery without our becoming liable to pay compensation because of this fact.

No claim in respect of the quality of the goods shall suspend payment in full for such goods.

Chapter VI. - TRANSPORT - PACKING - LIABILITY OF THE CARRIERS

23. Whatever the method of invoicing and transport, the goods are transported at the risk of the consignee, whose responsibility it shall be to inspect them thoroughly on receipt thereof, and, should it be necessary, to make a claim against the carrier. Should specific packaging be required, the definition of the category of packaging to be used shall be the sole responsibility of the purchaser.

Chapter VII. - WARRANTY - LIABILITY

25. Our contractual warranty is strictly limited to the straightforward provision of new parts to replace parts acknowledged by us to be defective, without our having to bear other expenses, be they in damages such as penalties, losses of profits or losses of operation as the result of the unavailability of supplies and owing to losses incurred directly by the user, in particular for disassembly, assembly, packaging, shipping, labour, etc. The term of such warranty is 2 years effective upon the date

of Commissioning or, failing that, the date of invoice to the end user, such term not exceeding 30 months of the date of manufacture of the appliance, and this for all parts unless exceptions are laid down hereinafter: Boiler heating body excluding low-temperature wall-hung: 3 years; Tanks for independent DHW and CEE tanks < 50 l: 3 years; Solar collectors: 3 years; Tanks and heating bodies for CEEs > 50 l: 5 years; Tanks for thermodynamic water heaters, solar tanks: 5 years; Absorption motor for GAS HP: 5 years; Heat Pump Compressors: 5 years (*); Steel radiator: 5 years; Cast iron radiator: unlimited warranty against all manufacturing defects (DD not affected); Spare parts excluding wearing parts: 1 year as of the date of invoice to the end user (**); Wearing parts (electrodes, nozzles, thermocouple, fuses, etc.): no warranty;

(*) Subject to Commissioning performed by an After Sales Service accredited by the brand and the performance of an annual service.

(**): The minimum duration of parts availability pertaining to the brand's appliances is 5 years effective on the date of publication of the most recent Pricing Catalogue in which the appliance concerned appears.

The warranty covers neither the effects of normal wear of moving parts, nor the consequences of abnormal conditions of installation or use, nor those of exposure to humidity or bad weather. All our equipment, with the exception of radiators, must undergo an annual service by a qualified professional and is not guaranteed by default. Furthermore, only that equipment installed by a qualified professional in accordance with the codes of practice and prevailing regulations is covered by the warranty. Our original parts alone are guaranteed. Nor does the warranty cover damages caused by fire or natural phenomena such as frost, lightning, flooding, earthquake, etc. or due to human intervention, such as the modification of supply voltage or pressure, burglary, vandalism, riot, etc. The quality of the mains water used in domestic hot water production appliances must meet the specifications given by prevailing orders and addendum no. 4 to DTU 60-1 of February 1977 (with, however, a limitation on chloride levels to 50 mg/l for stainless steel). Our warranty applies subject to compliance with the Inter-union Boiler Makers' Accord of 2 July 1969, and its appendix no. 2, which defines the qualities of water to be observed in a heating circuit.

To be able to make a claim on the warranty, the Buyer must inform us without delay of the defects that he imputes to the equipment and provide us with every facility to proceed with confirming and remedying them. He must, furthermore, refrain, unless expressly agreed by us, from carrying out the repairs himself or having them carried out by a third party.

Our warranty is strictly limited to the provision of the part, free of charge from our factories, to replace the part acknowledged to be defective or, should that prove impossible, a part suitable for the same use, and excludes labour costs, travel expenses, removal and refitting, and any and all other damages and compensation, in particular for loss of use.

The repair, modification or replacement of parts during the warranty period shall not have the effect of extending the total duration of the warranty on equipment. The legal warranty continues in any case.

The Buyer is obliged to ensure that the end user of our equipment is informed of the existence of our warranty and its terms and conditions.

- 25b - Our liability is strictly limited to the obligations thus laid down and it is expressly agreed that we shall not, in any circumstances, be held liable for indemnifying immaterial and/or indirect damage to which the buyer (or, where applicable, sub-buyer) may lay claim, irrespective of the cause and grounds. We shall therefore in no event be held liable for indemnifying losses of operation, losses of profit, or sundry costs and expenses, in particular in the case of unavailability of the equipment concerned, or the damages incurred by third parties and, more generally, any and all prejudice indemnifiable by nature other than bodily or material.

Chapter VIII. - DISPUTES

32. Sales agreements shall be exclusively governed and construed in accordance with the laws of France. Any disputes which cannot be settled amicably shall be submitted to the courts of the place of our Registered Office, even in the event of the introduction of third parties or where there are several defendants.

It is agreed that this is a translation of the French terms and conditions of sale and that in the case of disagreement between the French text and the English text, the French text shall prevail.

PRODUCT CATALOGUE RESIDENTIAL & COMMERCIAL EDITION 2024

BDR THERMEA FRANCE

S.A.S. with corporate capital of 229 288 696 €

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De Dietrich 