en

User Guide

Gas fired floor-standing condensing boiler

AGC 10/15
AGC 15
AGC 25
AGC 35

De Dietrich

Contents

1 Safety instructions

1.1 General safety instructions

DANGER

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

CAUTION

- The use of the boiler and system by you as the end-user must be limited to the operations described in this User Manual. All other actions may only be undertaken by a qualified fitter/engineer.
- Only qualified persons are authorised to assemble, install and maintain the installation.

DANGER

If you smell gas:

1. Do not use a naked flame, do not smoke, do not operate electrical contacts or switches (doorbell, light, motor, lift, etc..).
2. Shut off the gas supply.
3. Open the windows.
4. Evacuate the premises.
5. Call your fitter.

DANGER

If you smell flue gases:

1. Switch the appliance off.
2. Open the windows.
3. Evacuate the premises.
4. Call your fitter.

DANGER

The installation and maintenance of the boiler must be undertaken by a qualified fitter/engineer in accordance with the information in the supplied Installation and Service Manual, doing otherwise may result in dangerous situations and/or bodily injury.

WARNING

Depending on the settings of the appliance:

- The temperature of the flue gas conduits may exceed 60°C.
- The temperature of the radiators may reach 85°C.
- The temperature of the domestic hot water may reach 65°C.

CAUTION

Do not neglect to service the appliance:

- For completely safe and optimum operation, you must have your boiler regularly serviced by an approved installer.

1.2 Recommendations

WARNING

Only qualified professionals are authorised to work on the appliance and the installation.

DANGER

For safety reasons, we recommended fitting smoke and CO alarms at suitable places in your home.

- Regularly check the water pressure in the installation (minimum pressure 0.8 bar, recommended pressure between 0.8 and 1.5 bar).
- Keep the appliance accessible at all times.
- Never remove or cover labels and rating plates affixed to the appliance. Labels and rating plates must be legible throughout the entire lifetime of the appliance.
- The appliance should be on Summer or Antrifreeze mode rather than switched off to guarantee the following functions:
  - Anti blocking of pumps
  - Antifreeze protection

1.3 Liabilities

1.3.1. Manufacturer's liability

Our products are manufactured in compliance with the requirements of the various applicable European

Directives. They are therefore delivered with CE marking and all relevant documentation.

In the interest of customers, we are continuously endeavouring to make improvements in product quality. All the specifications stated in this document are therefore subject to change without notice.

Our liability as the manufacturer may not be invoked in the following cases:

- Failure to abide by the instructions on using the appliance.
- Faulty or insufficient maintenance of the appliance.
- Failure to abide by the instructions on installing the appliance.

1.3.2. Installer's liability

The installer is responsible for the installation and commissioning of the appliance. The installer must respect the following instructions:

- Read and follow the instructions given in the manuals provided with the appliance.
- Carry out installation in compliance with the prevailing legislation and standards.
- Perform the initial start up and carry out any checks necessary.
- Explain the installation to the user.
- If a maintenance is necessary, warn the user of the obligation to check the appliance and maintain it in good working order.
- Give all the instruction manuals to the user.

1.3.3. User's liability

To guarantee optimum operation of the appliance, the user must respect the following instructions:

- Read and follow the instructions given in the manuals provided with the appliance.
- Call on qualified professionals to carry out installation and initial start up.
- Get your installer to explain your installation to you.
- Ensure the Appliance is serviced in accordance with the manufacturer's instructions by a suitable qualified person.
- Keep the instruction manuals in good condition close to the appliance.

2 About this manual

2.1 Symbols used

2.1.1. Symbols used in the manual

In these instructions, various danger levels are employed to draw the user's attention to particular information. In so doing, we wish to safeguard the user's safety, highlight hazards and guarantee correct operation of the appliance.

DANGER

Risk of a dangerous situation causing serious physical injury.

WARNING

Risk of a dangerous situation causing slight physical injury.

CAUTION

Risk of material damage.

Signals important information.

Signals a referral to other instructions or other pages in the instructions.

2.1.2. Symbols used on the equipment

Protective earthing

~ Alternating current

Before installing and commissioning the device, read carefully the instruction manuals provided.

Dispose of the used products in an appropriate recovery and recycling structure.

D000241-C

This appliance must be connected to the protective earth.

M002628-A

Caution: danger, live parts.
Disconnect the mains power prior to any operations.

2.2 Abbreviations

- **3CE**: Collective conduit for sealed boiler
- **DHW**: Domestic hot water
- **Interscenario switch**: Home automation switch that can be used to centralise and control several scenarios
- **Hi**: Lower heating value LHV (Nett)
- **Hs**: Higher heating value HHV (Gross)
- **PPS**: Polypropylene hardly inflammable
- **PCU**: Primary Control Unit - PCB for managing burner operation
- **PSU**: Parameter Storage Unit - Parameter storage for PCBs PCU and SU
- **SCU**: Secondary Control Unit - control panel PCB
- **SU**: Safety Unit - Safety PCB
- **3WV**: 3-way valve
- **HL**: High Load - DHW tank with plate exchanger
- **SL**: Standard Load - DHW tank with coil
- **SHL**: Solar High Load - Solar DHW tank with plate exchanger
- **SSL**: Solar Standard Load - Solar DHW tank with coil

3 Technical specifications

3.1 Certifications

CE identification no	**CE-0085CM0178**
NOx classification	**6**
Type of connection	Chimney: B_{23}, B_{33}
	Flue gas outlet: $C_{13(x)}$, $C_{33(x)}$, $C_{43(x)}$, C_{53}, $C_{83(x)}$, $C_{93(x)}$

3.2 Technical specifications

Boiler type			**AGC 10/15**	**AGC 15**	**AGC 25**	**AGC 35**
General						
Nominal output (Pn) Heating System (80/60 °C)	minimum-maximum	kW	3,0 - 10,4	3,0 - 14,9	5,0 - 24,8	6,3 - 34,8
Nominal output (Pn) Heating System (50/30 °C)	minimum-maximum	kW	3,4 - 11,2	3,4 - 15,8	5,6 - 25,5	7,0 - 35,9
Nominal output (Pn) Heating System (40/30 °C)	minimum-maximum	kW	3,4 - 16,0	3,4 - 16,0	5,6 - 25,9	7,0 - 36.4
Nominal input (Qn) Heating System (Hi)	minimum-maximum	kW	3,1 - 10,5	3,1 - 15,0	5,2 - 25,0	6,5 - 35,1
Nominal input(Qn) Heating System (Hs)	minimum-maximum	kW	3,4 - 11,7	3,4 - 16,7	5,8 - 27,8	7,2 - 39,0
Nominal input (Qnw) DHW System (Hi)	minimum-maximum	kW	3,1 - 15,0	3,1 - 15,0	5,2 - 29,3	6,5 - 35,1
Nominal input (Qnw) DHW System (Hs)	minimum-maximum	kW	3,4 - 16,7	3,4 - 16,7	5,8 - 32,6	7,2 - 39,0
Heating efficiency under full load (Hi) (80/60 °C)	-	%	99,3	99,3	99,2	99,1
Heating efficiency under full load (Hi) (50/30 °C)	-	%	107,0	105,3	102,0	102,2
Heating efficiency under partial load (Hi) (Return temperature 60°C)	-	%	94,9	94,9	96,1	96,3
Heating efficiency under partial load (EN 92/42) (Return temperature 30°C)	-	%	110,2	110,2	110,1	110,6
Data on the gases and combustion gases						
Gas consumption - Natural gas H (G20)	minimum-maximum	m^3/h	0,33 - 1,59	0,33 - 1,59	0,55 - 3,10	0,69 - 3,71
Gas consumption - Natural gas L (G25)	minimum-maximum	m^3/h	0,38 - 1,85	0,38 - 1,85	0,64 - 3,61	0,80 - 4,32
Gas consumption - Propane G31	minimum-maximum	m^3/h	0,13 - 0,61	0,13 - 0,61	0,21 - 1,20	0,27 - 1,44
Mass flue gas flow rate	minimum-maximum	kg/h	5,3 - 25,2	5,3 - 25,2	8,9 - 49,3	11,1 - 57,3

Boiler type			AGC 10/15	AGC 15	AGC 25	AGC 35
Flue gas temperature	minimum-maximum	°C	30 - 65	30 - 65	30 - 80	30 - 75
Maximum counter pressure		Pa	80	80	130	140
Characteristics of the heating circuit						
Water content (ex expansion vessel)		l	1,9	1,9	1,9	2,5
Water operating pressure	minimum	kPa (bar (MPa))	80 (0,8)	80 (0,8)	80 (0,8)	80 (0,8)
Water operating pressure (PMS)	maximum	kPa (bar (MPa))	300 (3,0)	300 (3,0)	300 (3,0)	300 (3,0)
Water temperature	maximum	°C	110	110	110	110
Operating temperature	maximum	°C	90	90	90	90
Electrical characteristics						
Power supply voltage		VAC	230	230	230	230
Power consumption - Full load	maximum	W	101	101	116	132
Electrical protection index			IP21	IP21	IP21	IP21
Other characteristics						
Weight (empty)		kg	56	56	56	50

4 Description

4.1 Operating principle

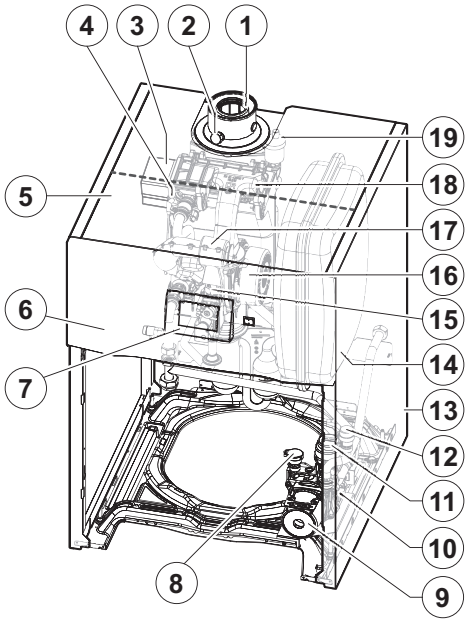
4.1.1. Gas/air setting

Air is sucked in by the fan and the gas injected into the venturi attached to the fan inlet. The fan rotation speed modulates and adapts to thermal energy requirements thanks to the temperatures measured by the various sensors. The gas and air are mixed in the venturi, which enables operation at a constant ratio. The noise of the venturi is absorbed by a silencer attached to its inlet. The gas/air mixture is carried to the burner in the top of the exchanger, guided by the pre-mix channel.

4.1.2. Combustion

The burner heats the heating water circulating in the heat exchanger. At a return temperature lower than around 55°C, the flue gases cool down to a temperature lower than the dew point, thus causing the condensation of the water vapour contained in the flue gases in the lower section of the heat exchanger. The heat released during this condensation process (the latent heat or condensing heat) is also transferred to the heating water. The cooled combustion gases are evacuated via the combustion gas outlet flue. The condensation water is evacuated via a condensate trap.

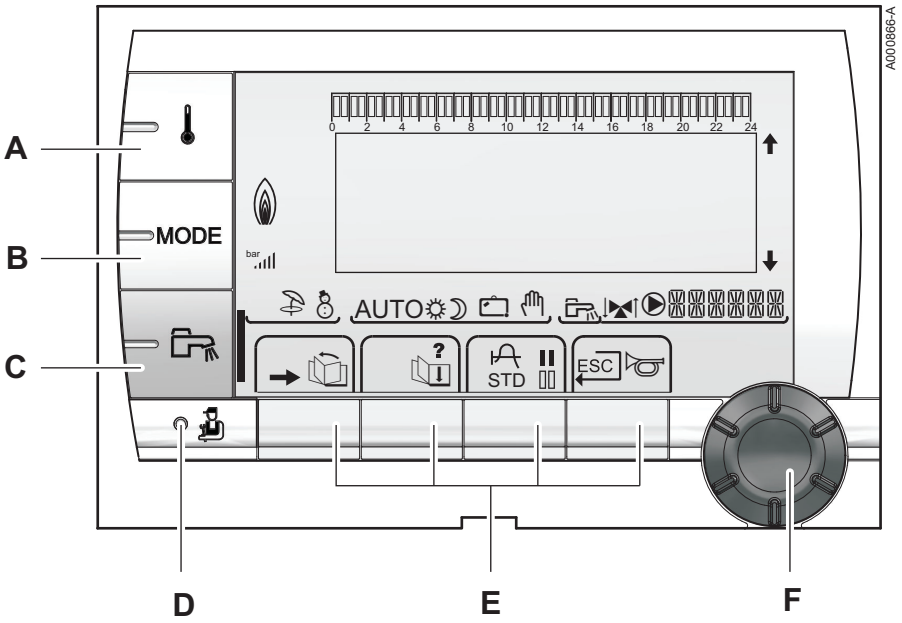
4.2 Main parts



1	Flue gas discharge pipe
2	Flue gas measuring point
3	Heat exchanger
4	Ignition/ionization electrode
5	Box for the control PCBs
6	Control panel
7	Command module
8	Water pressure sensor
9	Circulation pump
10	Hydroblock
11	3-way valve
12	Safety valve
13	Casing
14	Expansion vessel
15	Combined venturi and gas valve unit
16	Fan
17	Air intake silencer
18	Mixer pipe
19	Automatic air vent

4.3 Control panel

4.3.1. Description of the keys

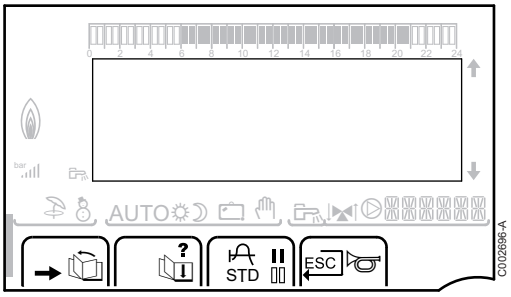


A	Temperature setting key (heating, DHW, swimming pool)
B	Operating mode selection key
C	DHW override key
D	Key to access the parameters reserved for the installer
E	Keys on which the function varies as and when selections are made
F	Rotary setting button:

- Turn the rotary button to scroll through the menus or modify a value
- Press the rotary button to access the selected menu or confirm a value modification

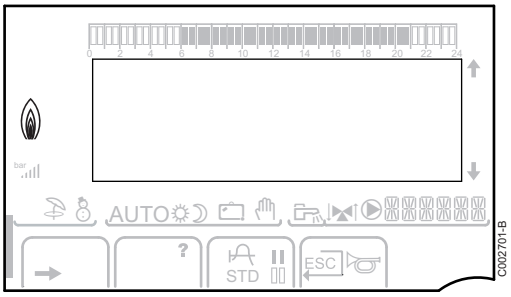
4.3.2. Description of the display

■ Key functions



→	Access to the various menus
	Used to scroll through the menus
	Used to scroll through the parameters
?	The symbol is displayed when help is available
	Used to display the curve of the parameter selected
STD	Reset of the time programmes
	Selection of comfort mode or selection of the days to be programmed
	Selection of reduced mode or deselection of the days to be programmed
⮌	Back to the previous level
ESC	Back to the previous level without saving the modifications made
	Manual reset

■ Flame output level



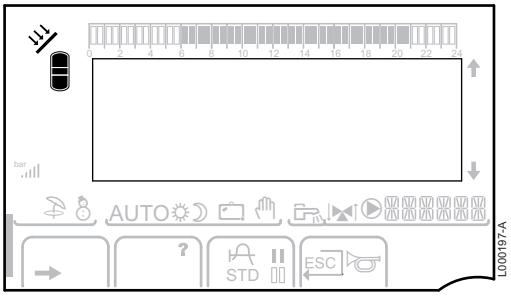
The whole symbol flashes: The burner starts up but the flame is not yet present

Part of the symbol flashes: Output is increasing

Steady symbol: The required output has been reached

Part of the symbol flashes: Output is dropping

Solar (If connected)



The solar load pump is running

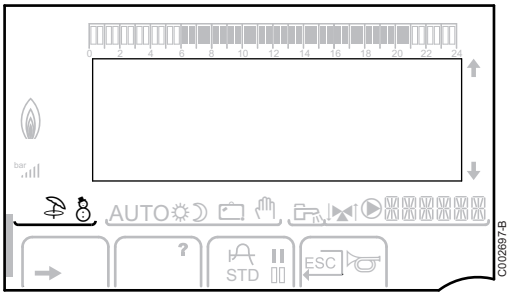
The top part of the tank is reheated to the tank set point

The entire tank is reheated to the tank set point

The entire tank is reheated to the solar tank set point

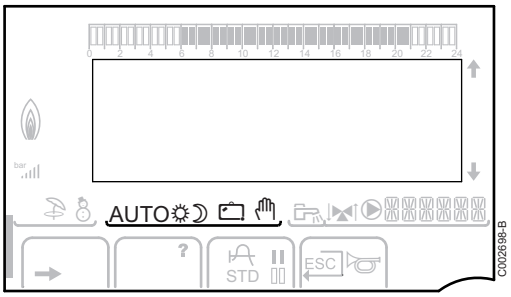
The tank is not loaded - Presence of the solar control system

Operating modes



Summer mode: The heating is off. Domestic hot water continues to be produced

WINTER mode: Heating and domestic hot water working



AUTO Operation in automatic mode according to the timer programme

Comfort mode: The symbol is displayed when a DAY override (comfort) is activated

- Flashing symbol: Temporary override
- Steady symbol: Permanent override

Reduced mode: The symbol is displayed when a NIGHT override (reduced) is activated

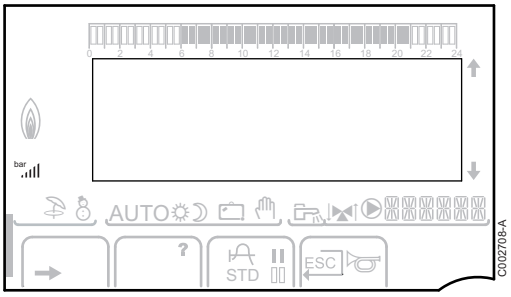
- Flashing symbol: Temporary override
- Steady symbol: Permanent override

Holiday mode: The symbol is displayed when a HOLIDAY override (antifreeze) is activated

- Flashing symbol: Holiday mode programmed
- Steady symbol: Holiday mode active

Manual mode: The boiler operates with the displayed set point. All of the pumps operate. The 3-way valves are not controlled.

System pressure



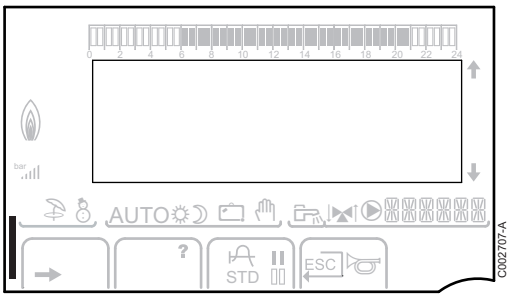
bar Pressure indicator: The symbol is displayed when a water pressure sensor is connected.

- Flashing symbol: The water pressure is insufficient.
- Steady symbol: The water pressure is sufficient.

Water pressure level

- .: 0,9 to 1,1 bar
- .ıl: 1,2 to 1,5 bar
- .ıll: 1,6 to 1,9 bar
- .ıll: 2,0 to 2,3 bar
- .ıllı: > 2,4 bar

Domestic Hot Water override

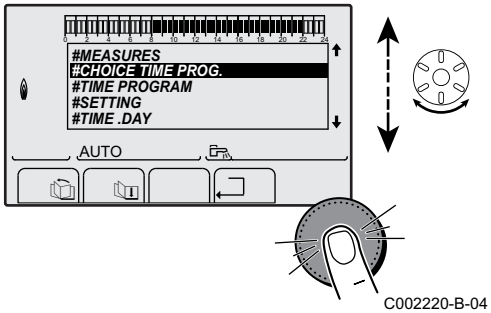


A bar is displayed when a DHW override is activated:

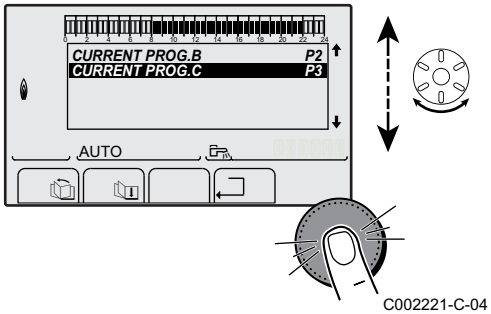
- Flashing bar: Temporary override
- Steady bar: Permanent override

Other information

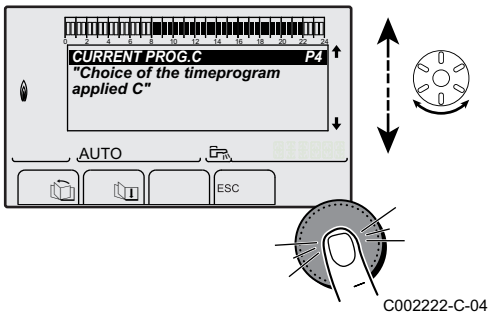
4.3.3. Browsing in the menus



1. To select the desired menu, turn the rotary button.
2. To access the menu, press the rotary button.
   To go back to the previous display, press the key ⮌.



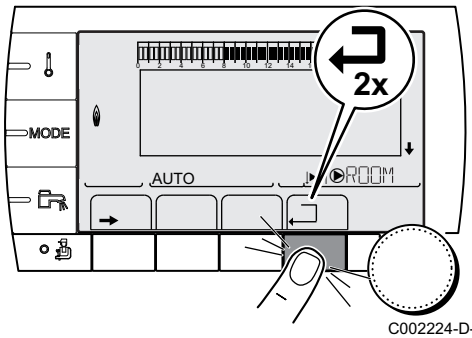
3. To select the desired parameter, turn the rotary button.
4. To modify the parameter, press the rotary button.
   To go back to the previous display, press the key ⮌.



C002222-C-04

5. To modify the parameter, turn the rotary button.
6. To confirm, press the rotary button.

To cancel, press key ESC.



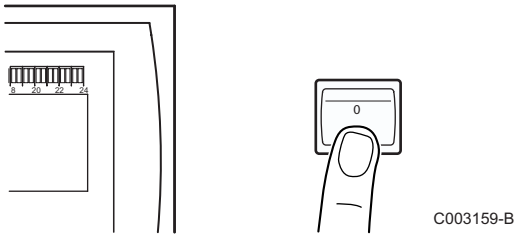
C002224-D-04

7. To go back to the main display, press key ⮐ 2 times.

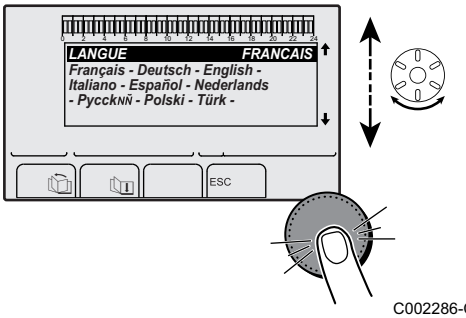
It is possible to use the and keys instead of the rotary button.

5 Operating the appliance

5.1 Putting the appliance into operation



C003159-B

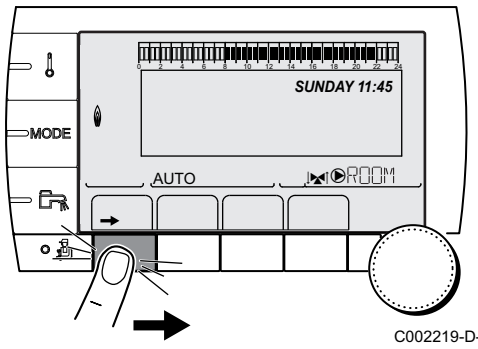


C002286-C

1. Turn on the boiler using the on/off switch.
2. The first time the boiler is powered up, the **LANGUAGE** menu is displayed. Select the desired language by turning the rotary button.
3. To confirm, press the rotary button.
   The boiler will begin an automatic venting-programme (which lasts approx. 3 minutes) and will do this every time the power supply is isolated. If there is a problem, the error is displayed on the screen.
4. Check the water pressure in the installation shown on the control panel display.

If the water pressure is lower than 0,8 bar, more water should be added. If necessary, top up the water level in the heating system (recommended hydraulic pressure between 1,5 and 2,0 bar).

5.2 Reading out measured values



C002219-D-04

The various values measured by the appliance are displayed in the **#MEASURES** menu.

1. To access user level: Press the → key.
2. Select the menu **#MEASURES**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the selected menu or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 17.

User level - #MEASURES Menu		
Parameter	**Description**	**Unit**
OUTSIDE TEMP.	Outside temperature	°C
ROOMTEMP.A (1)	Room temperature of circuit A	°C
ROOMTEMP.B (1)	Room temperature of circuit B	°C
ROOMTEMP.C (1)	Room temperature of circuit C	°C
BOILER TEMP	Water temperature in the boiler	°C
PRESSURE	Water pressure in the installation	bar (MPa)
WATER TEMP. (1)	Water temperature in the DHW tank	°C
TEMP DHW INST (1)	Instant hot water temperature	°C
STOR.TANK.TEMP (1)	Water temperature in the storage tank	°C
SWIMMING P.T.B (1)	Water temperature of the swimming pool on circuit B	°C
SWIMMING P.T.C (1)	Water temperature of the swimming pool on circuit C	°C
OUTLET TEMP.B (1)	Temperature of the flow water in circuit B	°C
OUTLET TEMP.C (1)	Temperature of the flow water in circuit C	°C
TEMP.SYSTEM (1)	Temperature of the system flow water if multi-generator	°C
T.DHW BOTTOM (1)	Water temperature in the bottom of the DHW tank	°C
TEMP.TANK AUX (1)	Water temperature in the second DHW tank connected to the AUX circuit	°C
DHW A TEMP. (1)	Water temperature in the second DHW tank connected to circuit A	°C
TEMP.SOL.TANK (1)	Temperature of the hot water produced by solar power (TS)	°C
SOLAR.COLL.T. (1)	Solar panel temperature (TC)	°C
SOLA.ENERGY (1)	Solar energy accumulated in the tank	kWh
BACK TEMP	Temperature of the boiler return water	°C
FAN SPEED	Fan rotation speed	rpm
POWER	Instantaneous boiler output (0%: Burner off or running at minimum output)	%
CURRENT (µA)	Ionization current	µA
HEATCONS. (2)	Energy consumed by the boiler in heating mode (estimated value)	kWh
DHW CONS. (2)	Energy consumed by the boiler in DHW mode (estimated value)	kWh
NB IMPULS.	Number of burner starts (not restartable) The meter is incremented by 8 every 8 start-ups	
RUNTIME	Number of burner operation hours (not restartable) The meter is incremented by 2 every 2 hours	h
IN 0-10V (1)	Voltage at input 0-10 V	V
SEQUENCE	Control system sequence	
CTRL	Software control number	

(1) The parameter is only displayed for the options, circuits or sensors actually connected.
(2) The parameter is only displayed if the function is activated (parameter **ENERGY METER** in the **#CONFIGURATION** menu)

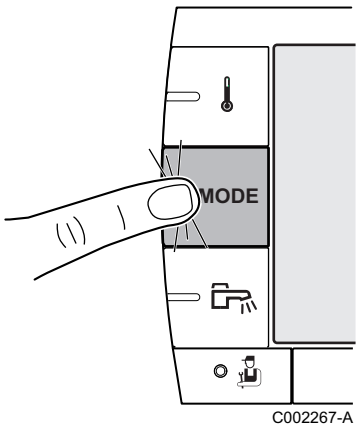
5.3 Changing the settings

5.3.1. Setting the set point temperatures

Menu			
Parameter	**Adjustment range**	**Description**	**Factory setting**
DAY TEMP.A	5 to 30 °C	Desired room temperature in comfort periods on circuit A	20 °C
NIGHT TEMP.A	5 to 30 °C	Desired room temperature in reduced periods on circuit A	16 °C
DAY TEMP.B (1)	5 to 30 °C	Desired room temperature in comfort periods on circuit B	20 °C
NIGHT TEMP.B (1)	5 to 30 °C	Desired room temperature in reduced periods on circuit B	16 °C
DAY TEMP.C (1)	5 to 30 °C	Desired room temperature in comfort periods on circuit C	20 °C
NIGHT TEMP.C (1)	5 to 30 °C	Desired room temperature in reduced periods on circuit C	16 °C
DHW TEMP. (1)	10 to 80 °C	Desired domestic hot water temperature in the DHW circuit	55 °C
TEMP.TANK AUX (1)	10 to 90 °C	Desired domestic hot water temperature in the auxiliary circuit	55 °C
DHW A TEMP. (1)	10 to 90 °C	Desired domestic hot water temperature in circuit A	55 °C
TEMP.SOL.TANK (1) (2)	20 to 80 °C	Maximum load temperature of the tank's solar zone	65 °C
SWIMMING P.T.B (1)	HG / 0.5 to 39 °C	Desired temperature for swimming pool B	20 °C
SWIMMING P.T.C (1)	HG / 0.5 to 39 °C	Desired temperature for swimming pool C	20 °C
WATER T.NIGHT	10 to 80 °C	Desired domestic hot water temperature in the DHW circuit	10 °C
WATER T.NIGHTAUX	10 to 90 °C	Desired domestic hot water temperature in the auxiliary circuit	10 °C
WATER T.NIGHT.A	10 to 90 °C	Desired domestic hot water temperature in circuit A	10 °C

(1) The parameter is only displayed for the options, circuits or sensors actually connected.
(2) The menu is only displayed if the solar control system is connected

5.3.2. Selecting the operating mode



C002267-A

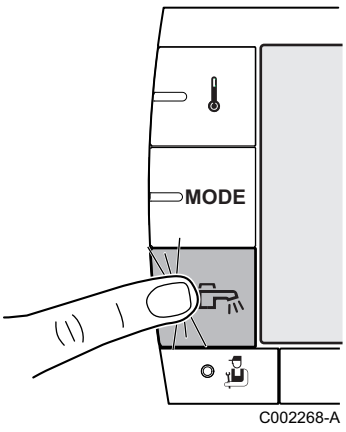
To select an operating mode, proceed as follows:

1. Press the **MODE** key.
2. To select the desired parameter, turn the rotary button.
3. To modify the parameter, press the rotary button.
   To go back to the previous display, press the key ⮌.
4. To modify the parameter, turn the rotary button.
5. To confirm, press the rotary button.

To cancel, press key ESC.

MODE Menu			
Parameter	**Adjustment range**	**Description**	**Factory setting**
AUTOMATIQUE		The comfort ranges are determined by the timer programme.	
DAY	7/7, xx:xx	Comfort mode is forced until the time indicated or all the time (7/7).	Present time + 1 hour
NIGHT	7/7, xx:xx	Reduced mode is forced until the time indicated or all the time (7/7).	Present time + 1 hour
HOLIDAYS	7/7, 1 to 364	The antifreeze mode is active on all boiler circuits. Number of days' holiday: xx (1) heating OFF: xx:xx (1) Restarting: xx:xx (1)	Present date + 1 day
SUMMER		The heating is off. Domestic hot water continues to be produced.	
MANUEL		The generator operates according to the set point setting. All of the pumps operate. Option of setting the set point by simply turning the rotary button.	
FORCE AUTO (2)	**YES** / **NO**	An operating mode override is activated on the remote control (option). To force all circuits to run on **AUTOMATIQUE** mode, select **YES**.	
(1) The start and end days and the number of days are calculated in relation to each other. (2) The parameter is only displayed if a room sensor is connected.			

5.3.3. Forcing domestic hot water production



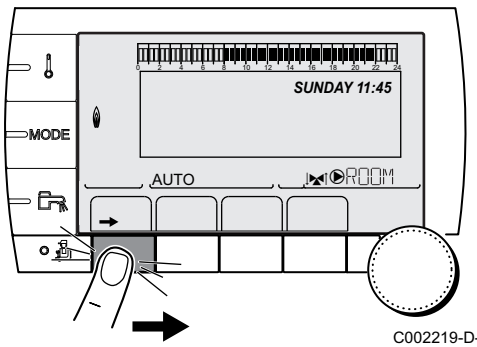
To force domestic hot water production, proceed as follows:

1. Press the key.
2. To select the desired parameter, turn the rotary button.
3. To modify the parameter, press the rotary button.
   To go back to the previous display, press the key ⮌.
4. To modify the parameter, turn the rotary button.
5. To confirm, press the rotary button.

To cancel, press key ESC.

Menu		
Parameter	**Description**	**Factory setting**
AUTOMATIQUE	The domestic hot water comfort ranges are determined by the timer programme.	
COMFORT	Domestic hot water comfort mode is forced until the time indicated or all the time (7/7).	Present time + 1 hour

5.3.4. Setting the contrast and lighting on the display



C002219-D-04

1. To access user level: Press the ➞ key.
2. Select the menu **#SETTING**.

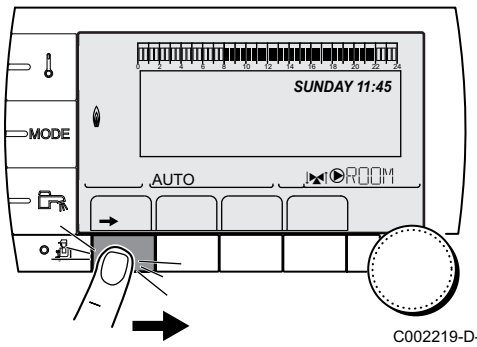
- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the selected menu or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 17.

3. Set the following parameters:

User level - #SETTING Menu				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
CONTRAST DISP.		Adjusting the display contrast.		
BACK LIGHT	**COMFORT**	The screen is illuminated continuously in daytime periods.	**ECO**	
	ECO	The screen is illuminated for 2 minutes whenever pressed.		

5.3.5. Setting the time and date



C002219-D-04

1. To access user level: Press the ➞ key.
2. Select the menu **#TIME .DAY**.

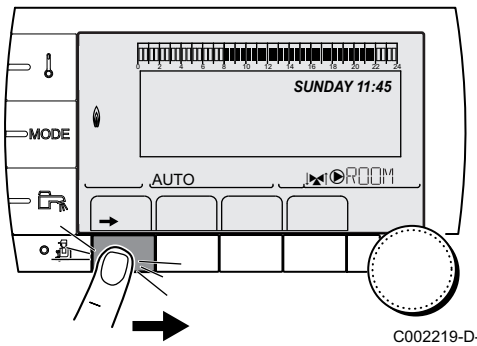
- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the selected menu or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 17.

3. Set the following parameters:

User level - #TIME .DAY Menu (1)				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
HOURS	0 to 23	Hours setting		
MINUTE	0 to 59	Minutes setting		
DAY	Monday to Sunday	Setting the day of the week		
DATE	1 to 31	Day setting		
MONTH	January to December	Month setting		
YEAR	2008 to 2099	Year setting		
SUM.TIME	**AUTO**	automatic switch to summer time on the last Sunday in March and back to winter time on the last Sunday in October.	**AUTO**	
	MANU	for countries where the time change is done on other dates or is not in use.		
(1) According to the configuration				

5.3.6. Selecting a timer programme



C002219-D-04

1. To access user level: Press the ➞ key.
2. Select the menu **#CHOICE TIME PROG.**.

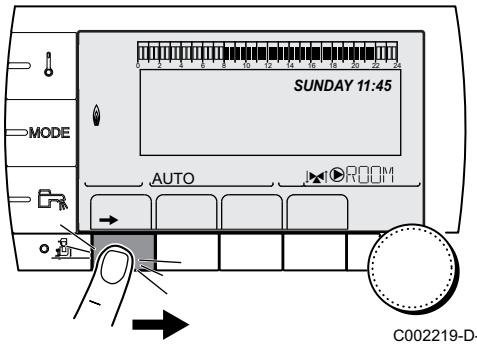
- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the selected menu or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 17.

3. To select the desired parameter.
4. Assign the desired timer programme (P1 to P4) to the circuit with the rotary button.

User level - #CHOICE TIME PROG. Menu		
Parameter	**Adjustment range**	**Description**
CURRENT PROG.A	P1 / P2 / P3 / P4	Comfort programme activated (Circuit A)
CURRENT PROG.B	P1 / P2 / P3 / P4	Comfort programme activated (Circuit B)
CURRENT PROG.C	P1 / P2 / P3 / P4	Comfort programme activated (Circuit C)

5.3.7. Customising a timer programme



C002219-D-04

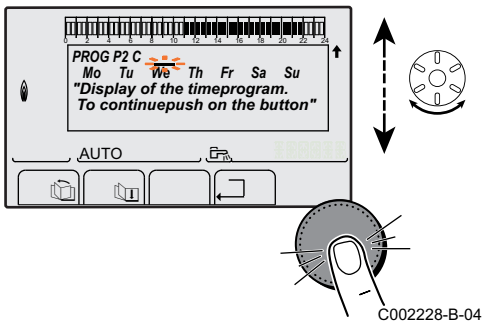
1. To access user level: Press the ➞ key.
2. Select the menu **#TIME PROGRAM**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the selected menu or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 17.

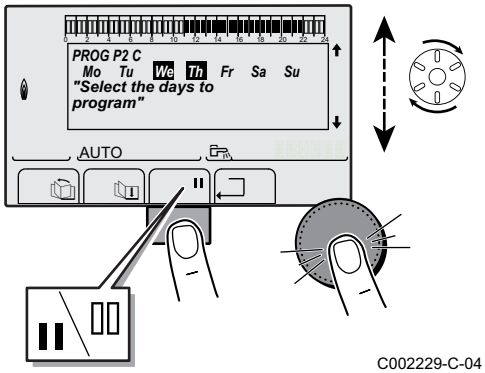
3. To select the desired parameter.

User level - #TIME PROGRAM Menu		
Parameter	**Time schedule**	**Description**
TIME PROG.A	**PROG P2 A** **PROG P3 A** **PROG P4 A**	Timer programme for circuit A
TIME PROG.B	**PROG P2 B** **PROG P3 B** **PROG P4 B**	Timer programme for circuit B
TIME PROG.C	**PROG P2 C** **PROG P3 C** **PROG P4 C**	Timer programme for circuit C
TIME PROG.DHW		DHW circuit timer programme
TIME PROG.AUX		Auxiliary circuit timer programme



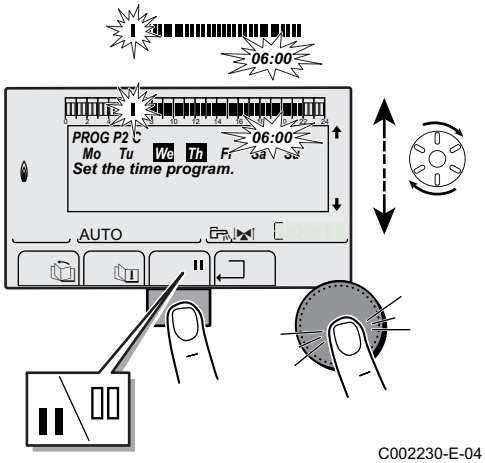
C002228-B-04

4. To select a timer programme to be modified.
5. **To select to days for which the timer programme is to be modified**:
   Turn the rotary button to the left until you reach the day desired.
   To confirm, press the rotary button.



C002229-C-04

6. ▌▌: **Day selection**
   Press key ▌▌ / ▯▯ until the symbol ▌▌ is displayed.
   Turn the rotary button to the right to select the day(s) desired.
   ▯▯: **Cancelling the day selection**
   Press key ▌▌ / ▯▯ until the symbol ▯▯ is displayed.
   Turn the rotary button to the right to cancel selection of the relevant day(s).
7. When the days desired for the programme have been selected, press the rotary button to confirm.



C002230-E-04

8. **To define the timer ranges for the comfort mode and reduced mode**:
   Turn the rotary button to the left until **0:00** is displayed. The first segment of the graphic bar for the timer programme flashes.
9. ▌▌: **Comfort mode selection**
   Press key ▌▌ / ▯▯ until the symbol ▌▌ is displayed.
   To select a comfort time range, turn the rotary button to the right.
   ▯▯: **Reduced mode selection**
   Press key ▌▌ / ▯▯ until the symbol ▯▯ is displayed.
   To select a reduced time range, turn the rotary button to the right.
10. When the times for the comfort mode have been selected, press the rotary button to confirm.

User level - #TIME PROGRAM Menu					
	Day	**Comfort periods / Filling enabled:**			
		P1 _____	**P2** _____	**P3** _____	**P4** _____
TIME PROG.A	Monday	6:00 to 22:00			
	Tuesday	6:00 to 22:00			
	Wednesday	6:00 to 22:00			
	Thursday	6:00 to 22:00			
	Friday	6:00 to 22:00			
	Saturday	6:00 to 22:00			
	Sunday	6:00 to 22:00			

User level - #TIME PROGRAM Menu					
	Day	Comfort periods / Filling enabled:			
		P1 _____	P2 _____	P3 _____	P4 _____
TIME PROG.B	Monday	6:00 to 22:00			
	Tuesday	6:00 to 22:00			
	Wednesday	6:00 to 22:00			
	Thursday	6:00 to 22:00			
	Friday	6:00 to 22:00			
	Saturday	6:00 to 22:00			
	Sunday	6:00 to 22:00			
TIME PROG.C	Monday	6:00 to 22:00			
	Tuesday	6:00 to 22:00			
	Wednesday	6:00 to 22:00			
	Thursday	6:00 to 22:00			
	Friday	6:00 to 22:00			
	Saturday	6:00 to 22:00			
	Sunday	6:00 to 22:00			
TIME PROG.DHW	Monday				
	Tuesday				
	Wednesday				
	Thursday				
	Friday				
	Saturday				
	Sunday				
TIME PROG.AUX	Monday				
	Tuesday				
	Wednesday				
	Thursday				
	Friday				
	Saturday				
	Sunday				

5.4 Installation shutdown

CAUTION

Do not switch off the mains supply to the appliance. If the central heating system is not used for a long period, we recommend activating the **HOLIDAYS** mode (to ensure the anti-grip of the heating pump).

5.5 Antifreeze protection

When the heating water temperature in the boiler is too low, the integrated boiler protection system starts up. This protection functions as follows:

- If the water temperature is lower than 7°C, the heating pump starts up.

- If the water temperature is lower than 4°C, the boiler starts up.
- If the water temperature is higher than 10°C, the boiler shuts down and the circulation pump continues to run for a short time.
- If the water temperature in the storage tank is less than 4°C, it is reheated to its set point.

CAUTION

- The antifreeze protection does not function if the appliance is switched off.
- The integrated protection system only protects the boiler, not the installation. To protect the installation, set the appliance to **HOLIDAYS** mode.

The **HOLIDAYS** mode protects:

- The installation if the outside temperature is lower than 3°C (factory setting).
- The room temperature if a remote control is connected and the room temperature is lower than 6 °C (factory setting).
- The domestic hot water tank if the tank temperature is lower than 4 °C (the water is reheated to 10 °C).

To configure the holidays mode: See chapter: "Selecting the operating mode", page 21.

6 Checking and maintenance

6.1 General instructions

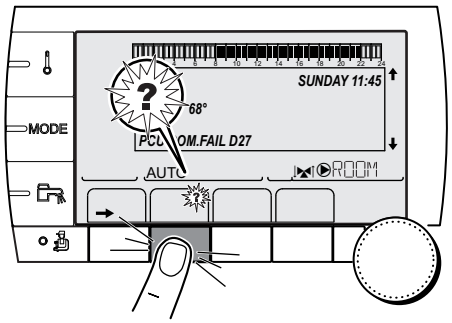
The boiler does not require a lot of maintenance. Nevertheless, we recommend having the boiler inspected and serviced at regular intervals.

- Maintenance and cleaning of the boiler must be carried out at least once a year by a qualified technician.
- Have the flues swept **at least once a year** or more, depending on the regulations in force in your country.

CAUTION

- Maintenance operations must be done by a qualified engineer.
- We recommend taking out a maintenance contract.
- Only original spare parts must be used.
- Make certain that the flues and chimneys are connected, in good condition and not blocked.
- Do not modify nor block the condensate outlet(s).
- If a neutralisation system is installed, follow the instructions delivered with the neutralisation system for cleaning and servicing of this system.

The boiler displays a message whenever maintenance is necessary.



C002302-D-04

1. When the message, **REVISION**, is displayed, press **?** to display the installer's telephone number (only if the installer has input this parameter).
2. Contact the fitter.
3. Ensure the Appliance is serviced in accordance with the manufacturer's instructions by a suitable qualified person.

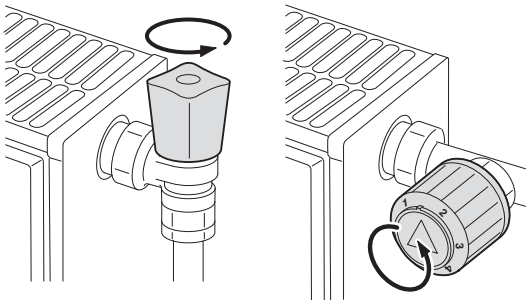
6.2 Periodic checks

- Check the water pressure in the installation (**MEASURE** mode).

If the water pressure is lower than 0,8 bar, more water should be added. If necessary, top up the water level in the heating system (recommended hydraulic pressure between 1,5 and 2,0 bar).


T001507-B

- Carry out a visual check for the presence of any water leaks.


T000181-B

- Open and close the radiator valves several times a year (this prevents the valves from seizing up).
- Clean the outside of the boiler using a damp cloth and a light detergent.

CAUTION

Only a qualified professional is authorised to clean the inside of the boiler.

7 Troubleshooting

7.1 Anti-hunting

When the boiler is in Anti-short-cycle operating mode, the symbol **?** flashes.

1. Press the "?" key.
   The message **Operation assured when the restart temperature will be reached** is displayed.

This message is not an error message but an item of information.

7.2 Messages (Code type Bxx or Mxx)

In the case of failure, the control panel displays a message and a corresponding code.

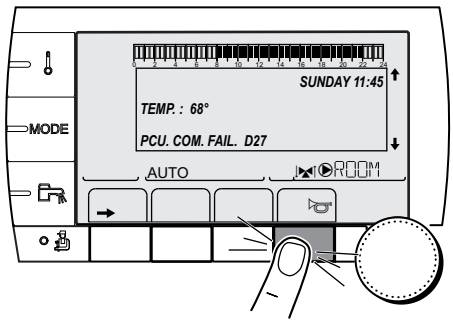
1. Make a note of the code displayed.
   The code is important for the correct and rapid diagnosis of the type of failure and for any technical assistance that may be needed.
2. Switch the boiler off and switch back on.
   The boiler starts up again automatically when the reason for the blocking has been removed.
3. If the code is displayed again, correct the problem by following the instructions in the table below:

Code	Messages	Description	Checking / solution
B00	**BL.PSU ERROR**	The PSU PCB is incorrectly configured	Parameter error on the PSU PCB ▸ Contact the professional who takes care of maintenance of the appliance
B01	**BL.BOILER MAX**	Maximum flow temperature exceeded	The water flow in the installation is insufficient ▸ Check the circulation (direction, pump, valves)
B02	**BL.HEATING SPEED**	The increase in flow temperature has exceeded its maximum limit	The water flow in the installation is insufficient ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure
			Sensor error ▸ Contact the professional who takes care of maintenance of the appliance
B07	**BL.DT OUTL RET.**	Maximum difference between the flow and return temperature exceeded	The water flow in the installation is insufficient ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure
			Sensor error ▸ Contact the professional who takes care of maintenance of the appliance

Code	Messages	Description	Checking / solution
B08	**BL.RL OPEN**	The **RL** inlet on the PCU PCB terminal block is open	Parameter error ▸ Contact the professional who takes care of maintenance of the appliance
			Bad connection ▸ Contact the professional who takes care of maintenance of the appliance
B09	**BL.INV.L/N**	▸ Contact the professional who takes care of maintenance of the appliance	
B10 **B11**	**BL.SC.IN.OPEN**	The **BL** inlet on the PCU PCB terminal block is open	The contact connected to the **BL** inlet is open ▸ Contact the professional who takes care of maintenance of the appliance
			Parameter error ▸ Contact the professional who takes care of maintenance of the appliance
			Bad connection ▸ Contact the professional who takes care of maintenance of the appliance
B13	**BL. PCU COM**	Communication error with the SCU PCB	Bad connection ▸ Contact the professional who takes care of maintenance of the appliance
			SCU PCB not installed in the boiler ▸ Contact the professional who takes care of maintenance of the appliance
B14	**BL.WATER MIS.**	The water pressure is lower than 0,8 bar	Not enough water in the circuit ▸ Top up the installation with water
B15	**BL.GAS PRESS**	Gas pressure too low	Incorrect setting of the gas pressure switch on the SCU PCB ▸ Check that the gas valve is fully opened ▸ Contact the professional who takes care of maintenance of the appliance
B16	**BL.BAD SU**	The SU PCB is not recognised	Wrong SU PCB for this boiler ▸ Contact the professional who takes care of maintenance of the appliance
B17	**BL.BAD PSU**	The parameters saved on the PCU PCB are impaired	Parameter error on the PCU PCB ▸ Contact the professional who takes care of maintenance of the appliance
B18	**BL.BAD PSU**	The PSU PCB is not recognised	Wrong PSU PCB for this boiler ▸ Contact the professional who takes care of maintenance of the appliance
B19	**BL.NO CONFIG**	The boiler has not been configured	The PSU PCB has been changed ▸ Contact the professional who takes care of maintenance of the appliance
B21	**BL.COM SU**	Communication error between the PCU and SU PCBs	Bad connection ▸ Contact the professional who takes care of maintenance of the appliance
B22	**BL.FLAME LOS**	No flame during operation	No ionization current ▸ Check that the gas valve is fully opened ▸ Contact the professional who takes care of maintenance of the appliance
B25	**BL.SU ERROR**	Internal error on the SU PCB	▸ Contact the professional who takes care of maintenance of the appliance
B26	**BL.DHW. S.**	The DHW tank sensor is disconnected or short circuited	▸ Contact the professional who takes care of maintenance of the appliance

Code	Messages	Description	Checking / solution
B27	**BL.DHW INST**	The sensor on the plate exchanger outlet is disconnected or short circuited	▸ Contact the professional who takes care of maintenance of the appliance
B28	**BL.BAD.CONFIG**	An HL tank is detected whilst the boiler cannot control it. This message disappears after 10 seconds if the boiler can control the HL tank	▸ Wait for 10 seconds to see whether the error persists ▸ Contact the professional who takes care of maintenance of the appliance
B29 to **B34**	**BL.UNKNOWN Bxx**	Incorrect configuration of the PCU	▸ Contact the professional who takes care of maintenance of the appliance
M04	**REVISION**	A service is required	The date programmed for the service has been reached ▸ If the symbol **?** flashes, press key **?**. The installer's contact details are displayed. ▸ Contact the professional who takes care of maintenance of the appliance
M05	**REVISION A**	An A, B or C service is required	The date programmed for the service has been reached ▸ If the symbol **?** flashes, press key **?**. The installer's contact details are displayed. ▸ Contact the professional who takes care of maintenance of the appliance
M06	**REVISION B**		
M07	**REVISION C**		
M20	**DISGAS**	A boiler vent cycle is underway	Switching the boiler on ▸ Wait 3 minutes
	FL.DRY.B XX DAYS	Floor drying is active **XX** DAYS = Number of days' floor drying remaining.	Floor drying is underway. Heating on the circuits not concerned is shut down. ▸ Contact the professional who takes care of maintenance of the appliance
	FL.DRY.C XX DAYS		
	FL.DRY.B+C XX DAYS		
M23	**CHANGE OUTSI.S**	The outside temperature sensor is defective.	Change the outside radio temperature sensor.
M30	**BL.SYSTEM NETWORK**	No communication with the master regulation through the MODBUS network	▸ Contact the professional who takes care of maintenance of the appliance
M31	**BL.COM MODBUS**	Incorrect configuration of the MODBUS network	▸ Contact the professional who takes care of maintenance of the appliance

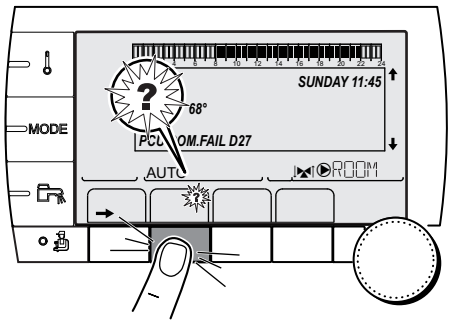
7.3 Faults (Code type Lxx or Dxx)



C002604-B-04

In the event of operational failure, the control panel flashes and displays an error message and a corresponding code.

1. Make a note of the code displayed.
   The code is important for the correct and rapid diagnosis of the type of failure and for any technical assistance that may be needed.
2. Press the key. If the code is displayed again, switch off the boiler and then switch it back on.



C002302-D-04

3. Press the **?** key. Follow the instructions displayed to solve the problem.
4. Consult the meaning of the codes in the table below:

Code	Faults	Cause of the fault	Description	Checking / solution
L00	**PSU FAIL**	PCU	PSU PCB not connected	Bad connection PSU PCB faulty ▸ Contact the professional who takes care of maintenance of the appliance
L01	**PSU PARAM FAIL**	PCU	The safety parameters are incorrect	Bad connection PSU PCB faulty ▸ Contact the professional who takes care of maintenance of the appliance
L02	**DEF.OUTLET S.**	PCU	The boiler flow sensor has short-circuited	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
L03	**DEF.OUTLET S.**	PCU	The boiler flow sensor is on an open circuit	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
L04	**DEF.OUTLET S.**	PCU	Boiler temp too low	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure
L05	**STB OUTLET**	PCU	Boiler temperature too high	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure
L06	**BACK S.FAILURE**	PCU	The return temperature sensor has short-circuited	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance

Code	Faults	Cause of the fault	Description	Checking / solution
L07	**BACK S.FAILURE**	PCU	The return temperature sensor is on an open circuit	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
L08	**BACK S.FAILURE**	PCU	Return temperature too low	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure
L09	**STB BACK**	PCU	Return temperature too high	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure
L10	**DT RET-DEP>MAX**	PCU	Difference between the flow and return temperatures insufficient	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure
L11	**DEP-RET>MAX**	PCU	Difference between the flow and return temperatures too great	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure
L12	**STB OPEN**	PCU	Maximum boiler temperature exceeded (STB thermostat maximum)	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure

Code	Faults	Cause of the fault	Description	Checking / solution
L14	**BURNER FAILURE**	PCU	5 burner start-up failures	No ignition ▸ Contact the professional who takes care of maintenance of the appliance
				Ignition arc, but no flame formation ▸ Check that the gas valve is fully opened ▸ Contact the professional who takes care of maintenance of the appliance
				Presence of the flame but insufficient ionization (<3 µA) ▸ Check that the gas valve is fully opened ▸ Contact the professional who takes care of maintenance of the appliance
L16	**PARASIT FLAME**	PCU	Detection of a parasite flame	Ionization current present even though there is no flame Ignition transformer defective Gas valve defect The burner remains very hot: O_2 too low ▸ Contact the professional who takes care of maintenance of the appliance
L17	**VALVE FAIL**	PCU	Problem on the gas valve	SU PCB faulty ▸ Contact the professional who takes care of maintenance of the appliance
L34	**FAN FAILURE**	PCU	The fan is not running at the right speed	Bad connection Fan defective ▸ Contact the professional who takes care of maintenance of the appliance
L35	**BACK>BOIL FAIL**	PCU	Flow and return reversed	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
				Water circulation direction reversed ▸ Check the circulation (direction, pump, valves)
L36	**I-CURRENT FAIL**	PCU	The flame went out more than 5 times in 24 hours while the burner was operating	No ionization current ▸ Check that the gas valve is fully opened ▸ Contact the professional who takes care of maintenance of the appliance
L37	**SU COM.FAIL**	PCU	Communication failure with the SU PCB	Bad connection ▸ Contact the professional who takes care of maintenance of the appliance
L38	**PCU COM.FAIL**	PCU	Communication failure between the PCU and SCU PCBs	Bad connection SCU PCB not connected or faulty ▸ Contact the professional who takes care of maintenance of the appliance
L39	**BL OPEN FAIL**	PCU	The **BL** inlet opened for a short time	Bad connection External cause Parameter incorrectly set ▸ Contact the professional who takes care of maintenance of the appliance

Code	Faults	Cause of the fault	Description	Checking / solution
L40	**TEST.HRU.FAIL**	PCU	HRU/URC unit test error	Bad connection External cause Parameter incorrectly set ▸ Contact the professional who takes care of maintenance of the appliance
L250	**DEF.WATER MIS.**	PCU	The water pressure is too low	Hydraulic circuit incorrectly vented Water leak Measurement error ▸ Top up with more water if necessary ▸ Reset the boiler
L251	**MANOMETRE FAIL**	PCU	Fault on the water pressure sensor	Wiring problem The manometer is defect Sensor pcb defect ▸ Contact the professional who takes care of maintenance of the appliance
D03 **D04**	**OUTL S.B FAIL.** **OUTL S.C FAIL.**	SCU	Circuit B flow sensor fault Circuit C flow sensor fault Remarks: The circuit pump is running. The 3-way valve motor on the circuit is no longer powered and can be adjusted manually.	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
D05	**OUTSI.S.FAIL.**	SCU	Outside temperature sensor fault Remarks: The boiler operates on **BOILER MAX** temperature. The valve setting is no longer ensured but monitoring the maximum temperature of the circuit after the valve is ensured. Valves may be manually operated. Reheating the domestic hot water remains ensured.	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
D07	**AUX.SENS.FAIL**	SCU	Auxiliary sensor fault	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
D09	**DHW S.FAILURE**	SCU	Domestic hot water sensor fault Remarks: Heating of domestic hot water is no longer ensured. The load pump operates. The load temperature of the dhw tank is the same as the boiler.	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
D11 **D12** **D13**	**ROOM S.A FAIL.** **ROOM S.B FAIL.** **ROOM S.C FAIL.**	SCU	A room temperature sensor fault B room temperature sensor fault C room temperature sensor fault Note: The circuit concerned operates without any influence from the room sensor.	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
D14	**MC COM.FAIL**	SCU	Communication failure between the SCU PCB and the boiler radio module	Bad connection ▸ Contact the professional who takes care of maintenance of the appliance Boiler module failure ▸ Contact the professional who takes care of maintenance of the appliance

Code	Faults	Cause of the fault	Description	Checking / solution
D15	**ST.TANK S.FAIL**	SCU	Storage tank sensor fault Note: The hot water storage tank reheating operation is no longer assured.	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
D16 **D16**	**SWIM.B S.FAIL** **SWIM.C S.FAIL**	SCU	Swimming pool sensor fault circuit B Swimming pool sensor fault circuit C Note: Swimming pool reheating is always done during the circuit's comfort period.	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
D17	**DHW 2 S.FAIL**	SCU	Sensor fault tank 2	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
D18	**ST.TANK S.FAIL**	SCU	Solar tank sensor fault	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
D19	**SOL.COL.S.FAIL**	SCU	Header sensor fault	Bad connection Sensor fault ▸ Contact the professional who takes care of maintenance of the appliance
D20	**SOL COM.FAIL**	SCU	Interruption in communication between the SCU PCB and the solar control system ▸ Contact the professional who takes care of maintenance of the appliance	
D27	**PCU COM. FAIL**	SCU	Communication failure between the SCU and PCU PCBs ▸ Contact the professional who takes care of maintenance of the appliance	
D32	**5 RESET:ON/OFF**	SCU	5 resets done in less than an hour ▸ Switch the boiler off and switch back on ▸ If the boiler does not start after several resets (5 attempts possible), contact your heating engineer and inform him of the error message displayed	
D37	**TA-S SHORT-CIR**	SCU	The Titan Active System® is short-circuited ▸ Contact the professional who takes care of maintenance of the appliance Remarks: Domestic hot water production has stopped but can nonetheless be restarted using key . The tank is no longer protected. If a tank without Titan Active System® is connected to the boiler,check that the TAS simulation connector (delivered with package AD212) is fitted to the sensor card.	
D38	**TA-S DISCONNEC**	SCU	The Titan Active System® is on an open circuit ▸ Contact the professional who takes care of maintenance of the appliance Remarks: Domestic hot water production has stopped but can nonetheless be restarted using key . The tank is no longer protected. If a tank without Titan Active System® is connected to the boiler,check that the TAS simulation connector (delivered with package AD212) is fitted to the sensor card.	
D99	**DEF.BAD PCU**	SCU	The SCU software version does not recognise the PCU connected ▸ Contact the professional who takes care of maintenance of the appliance	

8 Energy savings

8.1 Energy-saving advice

- Keep the room in which the boiler is installed well ventilated.
- Do not block ventilation outlets.
- Do not cover the radiators. Do not hang curtains in front of the radiators.
- Install reflective panels behind the radiators to prevent heat losses.
- Insulate the pipes in rooms that are not heated (cellars and lofts).
- Close the radiators in rooms not in use.
- Do not run hot (or cold) water pointlessly.
- Install a water-saving shower head to save up to 40 % energy.
- Take showers rather than baths. A bath consumes twice as much water and energy.

8.2 Recommendations

The remote control is available in the following versions:

- Wire
- Radio

The setting of the control panel and/or of the remote control has a considerable influence on energy consumption.

A few tips:

- In the room in which the room thermostat is installed, it's advised not to use thermostatic valve radiators. If a thermostatic valve is used the valve must be fully opened.
- Completely closing and opening thermostatic valve radiators causes undesirable temperature fluctuations. Open and close thermostatic valves in small steps.
- Lower the temperature to around 20°C. This reduces heating costs and energy consumption.
- Lower the temperature when you air the rooms.
- When setting a time schedule , bear days when you are absent and holidays in mind.

9 Warranty

9.1 General

You have just purchased one of our appliances and we thank you for the trust you have placed in our products.

Please note that your appliance will provide good service for a longer period of time if it is regularly checked and maintained.

Your installer and our customer support network are at your disposal at all times.

9.2 Warranty terms

The following provisions are not exclusive of the buyer being able benefit from the legal provisions applicable regarding hidden defects in the buyer's country.

Starting from the purchase date shown on the original installer's invoice, your appliance has a contractual guarantee against any manufacturing defect.

The length of the guarantee is mentioned in the price catalogue. The manufacturer is not liable for any improper use of the appliance or failure to maintain or install the unit correctly (the user shall take care to ensure that the system is installed by a qualified engineer).

In particular, the manufacturer shall not be held responsible for any damage, loss or injury caused by installations which do not comply with the following:

- applicable local laws and regulations,
- specific requirements relating to the installation, such as national and/or local regulations,
- the manufacturer's instructions, in particular those relating to the regular maintenance of the unit,
- the rules of the profession.

The warranty is limited to the exchange or repair of such parts as have been recognised to be faulty by our technical department and does not cover labour, travel and carriage costs.

The warranty shall not apply to the replacement or repair of parts damaged by normal wear and tear, negligence, repairs by unqualified parties, faulty or insufficient monitoring and maintenance, faulty power supply or the use of unsuitable fuel.

Sub-assemblies such as motors, pumps, electric valves etc. are guaranteed only if they have never been dismantled.

The legislation laid down by european directive 99/44/EEC, transposed by legislative decree No. 24 of 2 February 2002 published in O.J. No. 57 of 8 March 2002, continues to apply.

Appendix

Information on the ecodesign and energy labelling directives

Contents

1 Specific information

1.1 Recommendations

Note
Only qualified persons are authorised to assemble, install and maintain the installation.

1.2 Ecodesign Directive

This product conforms to the requirements of European Directive 2009/125/EC on the ecodesign of energy-related products.

1.3 Technical data

Tab.1 Technical parameters for boiler space heaters

Product name			**AGC 10/15**	**AGC 15**	**AGC 25**	**AGC 35**
Condensing boiler			Yes	Yes	Yes	Yes
Low-temperature boiler(1)			No	No	No	No
B1 boiler			No	No	No	No
Cogeneration space heater			No	No	No	No
Combination heater			No	No	No	No
Rated heat output	*Prated*	kW	10	15	25	35
Useful heat output at rated heat output and high temperature regime(2)	P_4	kW	10.4	14.9	24.8	34.8
Useful heat output at 30% of rated heat output and low temperature regime(1)	P_1	kW	3.5	5.0	8.3	11.6
Seasonal space heating energy efficiency	η_s	%	93	94	94	94
Useful efficiency at rated heat output and high temperature regime(2)	η_4	%	89.5	89.5	89.4	89.3
Useful efficiency at 30% of rated heat output and low temperature regime(1)	η_1	%	99.3	99.3	99.2	99.6
Auxiliary electricity consumption						
Full load	*elmax*	kW	0.024	0.031	0.045	0.062
Part load	*elmin*	kW	0.020	0.021	0.019	0.021
Stand-by	P_{SB}	kW	0.004	0.004	0.004	0.004
Other characteristics						
Standby heat loss	P_{stby}	kW	0.078	0.078	0.078	0.085
Ignition burner power consumption	P_{ign}	kW	-	-	-	-
Annual energy consumption	Q_{HE}	GJ	31	46	77	107
Sound power level, indoors	L_{WA}	dB	37	46	51	53
Emissions of nitrogen oxides	NO_X	mg/kWh	28	30	34	38

(1) Low temperature means for condensing boilers 30°C, for low temperature boilers 37°C and for other heaters 50°C return temperature (at heater inlet).
(2) High temperature regime means 60°C return temperature at heater inlet and 80°C feed temperature at heater outlet.

See
The back cover for contact details.

1.4 Circulation pump

Note
The benchmark for the most efficient circulators is EEI ≤ 0.20.

1.5 Disposal and Recycling

Fig.1 Recycling

Warning
Removal and disposal of the boiler must be carried out by a qualified installer in accordance with local and national regulations.

If you need to remove the boiler, proceed as follows:

1. Switch off the boiler.
2. Cut the electrical power to the boiler.
3. Close the main gas valve.
4. Close the water mains.
5. Close the gas valve on the boiler.
6. Drain the installation.
7. Remove the air vent hose above the siphon.
8. Remove the siphon.
9. Remove the air/flue gas pipes.
10. Disconnect all pipes on the underside of the boiler.
11. Dismantle the boiler.

1.6 Product fiche - Boiler space heaters

Tab.2 Product fiche for boiler space heaters

Product name		AGC 10/15	AGC 15	AGC 25	AGC 35
Seasonal space heating energy efficiency class		A	A	A	A
Rated heat output *(Prated or Psup)*	kW	10	15	25	35
Seasonal space heating energy efficiency	%	93	94	94	94
Annual energy consumption	GJ	31	46	77	107
Sound power level L_{WA} indoors	dB	37	46	51	53

See
For specific precautions on assembly, installation and maintenance: see the chapter on Safety Instructions.

1.7 Product data sheet - Temperature controls

Tab.3 Product data sheet for the Temperature controls

		DIEMATIC iSystem
Class		II
Contribution to space heating energy efficiency	%	2

1.8 Package fiche - Boilers

Fig.2 Package fiche for boilers indicating the space heating energy efficiency of the package

Seasonal space heating energy efficiency of boiler

(1) ‘I’ %

Temperature control

from fiche of temperature control

Class I = 1%, Class II = 2%, Class III = 1.5%, Class IV = 2%, Class V = 3%, Class VI = 4%, Class VII = 3.5%, Class VIII = 5%

+ (2) %

Supplementary boiler

from fiche of boiler

Seasonal space heating energy efficiency (in %)

(- ‘I’) x 0.1 = ± (3) %

Solar contribution

from fiche of solar device

Collector size (in m²) | Tank volume (in m³) | Collector efficiency (in %) | Tank rating (1): A* = 0.95, A = 0.91, B = 0.86, C = 0.83, D - G = 0.81

(‘III’ x + ‘IV’ x) x 0.9 x (/100) x = + (4) %

(1) If tank rating is above A, use 0.95

Supplementary heat pump

from fiche of heat pump

Seasonal space heating energy efficiency (in %)

(- ‘I’) x ‘II’ = + (5) %

Solar contribution AND Supplementary heat pump

select smaller value

0.5 x (4) OR 0.5 x (5) = - (6) %

Seasonal space heating energy efficiency of package

(7) %

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥30%	≥34%	≥36%	≥75%	≥82%	≥90%	≥98%	≥125%	≥150%

Boiler and supplementary heat pump installed with low temperature heat emitters at 35°C ?

from fiche of heat pump

(7) + (50 x ‘II’) = %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

AD-3000743-01

I The value of the seasonal space heating energy efficiency of the preferential space heater, expressed in %.

II The factor for weighting the heat output of preferential and supplementary heaters of a package as set out in the following table.

III The value of the mathematical expression: 294/(11 · Prated), whereby 'Prated' is related to the preferential space heater.

IV The value of the mathematical expression 115/(11 · Prated), whereby 'Prated' is related to the preferential space heater.

Tab.4 Weighting of boilers

Psup / (Prated + Psup)(1)(2)	II, package without hot water storage tank	II, package with hot water storage tank
0	0	0
0.1	0.3	0.37
0.2	0.55	0.70
0.3	0.75	0.85
0.4	0.85	0.94
0.5	0.95	0.98
0.6	0.98	1.00
≥ 0.7	1.00	1.00

(1) The intermediate values are calculated by linear interpolation between the two adjacent values.
(2) Prated is related to the preferential space heater or combination heater.

Tab.5 Package efficiency

De Dietrich - AGC		AGC 10/15	AGC 15	AGC 25	AGC 35
Seasonal space heating energy efficiency of boiler	%	93	94	94	94
Temperature control	%	+ 2	+ 2	+ 2	+ 2
Seasonal space heating energy efficiency of package	%	95	96	96	96

DE DIETRICH
FRANCE

Direction de la Marque
57, rue de la Gare - F-67580 Mertzwiller

03 88 80 27 00

03 88 80 27 99

www.dedietrich-thermique.fr

De Dietrich
SERVICE CONSOMMATEURS
0 825 120 520 Service 0,15 € / min + prix appel

VAN MARCKE
BE

Weggevoerdenlaan 5
B- 8500 KORTRIJK

+32 (0)56/23 75 1 1

www.vanma rcke.be

DE DIETRICH THERMIQUE Iberia S.L.U
ES

C/Salv ador Espriu, 11
08908 L'HOSPITALET de LLO BREGAT

+34 935 4 75 850

info@dedietrich-calefaccion.es

www.dedietric h-calefaccion.es

MEIER TOBLER AG
CH

Bahnstasse 24 - CH - 8603 SCHWE RZENBACH

+41 (0) 44 806 41 4 1

info@meiertobler.ch

+41 (0)8 00 846 846 Serviceline

www.meiertobler.c h

MEIER TOBLER SA
CH

Chemin de la Veyre-d'En-Haut B6,
CH -1806 St-Légier-La-Chiésaz

+41 (0) 21 943 02 22

info@meiertobler.ch

+41 (0)8 00 846 846 Serviceline

www.meiertobler.c h

DE DIETRICH
Technika Grzew cza sp. z o.o.
PL

ul. Północna 15-19, 54-105 Wrocław

+48 71 71 27 400

biuro@dedietrich.pl

801 080 881 Infocentrala 0,35 zł / min

www.facebook.com/DeDietrichP L

www.dedietric h.pl

000 «БДР Термия Рус »
RU

129164, Россия, г. Москва
Зубарев переулок, д. 15/1
Бизнес-центр «Чайка Плаза»,офис 309

8 800 333-17-18

info@dedietrich.ru

www.dedietric h.ru

NEUBERG S.A.
LU

39 rue Jacques Stas - B.P.12
L- 2549 LUXEMBO URG

+352 (0)2 401 40 1

www.neuber g.lu

www.dedietric h-heating.com

DE DIETRICH SERVICE
AT

0800 / 20 1608 freecall

www.dedietric h-heiztechnik.com

DUEDI S.r .l
IT

Distributor Ufficiale Esclusivo
De Dietrich-Thermique Italia Via Bissatore, 12
12010 San Defendente di Cervasca CUNEO

+39 0171 857170

+39 0171 687875

info@duediclima.it

www.duediclima.it

DE DIETRICH
CN

Room 512, Tower A, Kelun Building
12A Guanghua Rd, Chaoyang District
C-100020 BEIJING

+86 (0) 106 581 40 17
+86 (0) 106 581 40 18
+86 (0) 106 581 7 056

+86 (0) 106 581 40 19

contactBJ@dedietrich.com.cn

www.dedietric h-heating.com

BDR THERMEA Czech Republic s.r. o
CZ

Jeseniova 2770/5 6 - 1 30 00 Praha 3

+420 271 001 627

dedietrich@bdrthermea.cz

www.dedietric h.cz

CE

De Dietrich