

NeOvo



User Manual

Oil boiler

NeOvo EcoNox

EFU-S 22

EFU-S 29

Dear Customer,

Thank you very much for buying this appliance.

Please read through the manual carefully before using the product, and keep it in a safe place for later reference. In order to ensure continued safe and efficient operation we recommend that the product is serviced regularly. Our service and customer service organisation can assist with this.

We hope you enjoy years of problem-free operation with the product.

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1 Safety

1.1 General safety instructions

**Danger**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

**Danger of electric shock**

Before any work, switch off the mains supply to the boiler.

**Caution**

Only genuine spare parts may be used.

**Important**

Only qualified professionals are permitted to install the boiler, in accordance with prevailing local and national regulations.

**Important**

Allow the space required to correctly install the boiler. Refer to the Overall space needed for the boiler section in the installation and service manual.

**Warning**

Do not touch the flue gas pipes. Depending on the boiler settings, the temperature of the flue gas pipes may exceed 60°C.

**Warning**

Do not touch the radiators for long periods. Depending on the boiler settings, the temperature of the radiators may exceed 60°C.

**Warning**

Take precautions with the domestic hot water. Depending on the boiler settings, the domestic hot water temperature may exceed 65°C.

**Warning**

Only qualified professionals are authorised to work on the boiler and the heating system.

Hydraulic safety



Important

Respect the minimum and maximum water inlet pressure to ensure correct operation of the boiler: refer to the chapter Technical Specifications.

Electrical safety



Caution

A disconnection method must be allowed in the fixed pipes in accordance with the rules on installation in force in the country.



Caution

If a power cord comes with the appliance and it turns out to be damaged, it must be replaced by the manufacturer, its after sales service or persons with similar qualifications in order to obviate any danger.



Important

The installation must comply on all points with prevailing regulations and directives, which govern work and interventions in individual homes, blocks of flats and other buildings.



Caution

- The boiler must always be connected to the protective earthing.
- Earthing must comply with the prevailing installation standards.
- Earth the appliance before making any electrical connections.

For the type and calibre of the protective equipment, refer to the chapter Electrical Connections in the Installation and Service Manual.



Danger of electric shock

Only qualified professionals are permitted access to the inside of the appliance, in accordance with the prevailing electrical safety standard.



Danger

If you smell flue gases:

1. Switch off the appliance.
2. Open the windows.
3. Evacuate the premises.
4. Contact a qualified professional.

**Caution**

Do not neglect to service the boiler. Contact a qualified professional or take out a maintenance contract for the obligatory annual servicing of the boiler.

Failure to service the appliance voids the warranty.

**Important**

This manual can also be found on our internet site.

1.2 Recommendations

**Caution**

The system must satisfy each point in the rules (DTU, EN and others, etc.) that govern works and interventions in individual homes, blocks of flats or other buildings.

**Important**

Keep the boiler accessible at all times.

**Caution**

Install the boiler in a frost-free environment.

**Important**

Regularly check the presence of water and pressure in the heating installation.

**Important**

Never remove or cover labels and data plates affixed to the appliances. Labels and data plates must be legible throughout the entire lifetime of the appliance.

Immediately replace damaged or illegible instructions and warning stickers.

**Important**

Remove the casing only to perform maintenance and repair work. Put the casing back in place after maintenance and repair work.

**Important**

Insulate the pipes to reduce heat losses to a minimum.

**Caution**

Have the boiler and heating system drained by a qualified professional if the home is left empty for a long period of time and there is a chance of frost.

1.3 Liabilities

1.3.1 Manufacturer's liability

Our products are manufactured in compliance with the requirements of the various Directives applicable. They are therefore delivered with the **CE** marking and any documents necessary. In the interests of the quality of our products, we strive constantly to improve them. We therefore reserve the right to modify the specifications given in this document.

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

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

1.3.2 Installer's liability

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

- Read and follow the instructions given in the manuals provided with the appliance.
- Install the appliance in compliance with prevailing legislation and standards.
- Carry out initial commissioning and any checks necessary.
- Explain the installation to the user.
- If maintenance is necessary, warn the user of the obligation to check the appliance and keep 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 system, you must abide by the following instructions:

- Read and follow the instructions given in the manuals provided with the appliance.

- Call on a qualified professional to carry out installation and initial commissioning.
- Get your installer to explain your installation to you.
- Have the required inspections and maintenance carried out by a qualified installer.
- 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

This manual uses various danger levels to draw attention to special instructions. We do this to improve user safety, to prevent problems and to guarantee correct operation of the appliance.

**Danger**
Risk of dangerous situations that may result in serious personal injury.

**Danger of electric shock**
Risk of electric shock.

**Warning**
Risk of dangerous situations that may result in minor personal injury.

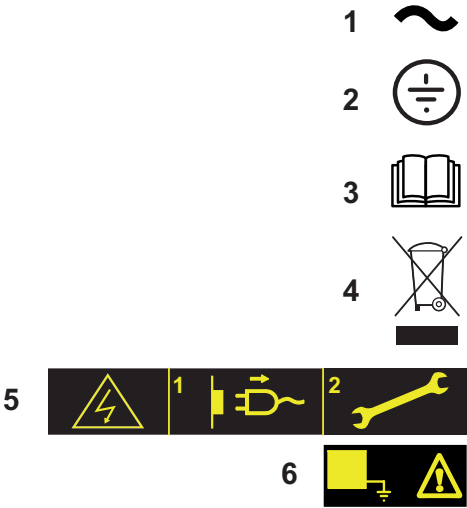
**Caution**
Risk of material damage.

**Important**
Please note: important information.

**See**
Reference to other manuals or pages in this manual.

2.1.2 Symbols used on the appliance

Fig.1



MW-1000123-2

- 1 Alternating current.
- 2 Protective earthing.
- 3 Before installing and commissioning the appliance, carefully read the instruction manuals provided.
- 4 Dispose of used products through an appropriate recovery and recycling structure.
- 5 Caution: danger of electric shock, live parts. Disconnect the mains power prior to carrying out any work.
- 6 Connect the appliance to the protective earthing.

3 Technical specifications

3.1 Homologations

3.1.1 Certifications

The boiler complies with current standards.

CE identification number: 0085CQ0004

3.1.2 Oil categories

Tab.1

Type of oil that can be used	Maximum viscosity
GNR Non-road diesel with a maximum EMAG content of 7 % ⁽¹⁾ i Important To be used exclusively for a boiler fitted with a burner with a heater.	6 mm ² /s at 20 °C
Standard fuel oil	6 mm ² /s at 20 °C
Low-sulphur oil	6 mm ² /s at 20 °C
Bio-oil B10 Mixture of low-sulphur oil (<50 mg/kg) plus 5.9 to 10.9% (in volume) of EMAG ⁽¹⁾	6 mm ² /s at 20 °C
Bio-oil B5 (or Bio 5) Mixture of low-sulphur oil (<50 mg/kg) plus 3 to 5.9% (in volume) of EMAG ⁽¹⁾	6 mm ² /s at 20 °C
(1) Liquid petroleum products — Fatty Acid Methyl Esters used as heating fuel	

3.2 Technical data

Tab.2 Technical parameters for boiler space heaters

Product name			EFU-S 22	EFU-S 29
Condensing boiler			No	No
Low-temperature boiler ⁽¹⁾			Yes	Yes
B1 boiler			No	No
Cogeneration space heater			No	No
Combination heater			No	No
Rated heat output	<i>P_{rated}</i>	kW	22	30
Useful heat output at rated heat output and high temperature regime ⁽²⁾	<i>P₄</i>	kW	22.4	29.8
Useful heat output at 30% of rated heat output and low temperature regime ⁽¹⁾	<i>P₁</i>	kW	7.0	9.3
Seasonal space heating energy efficiency	<i>η_s</i>	%	86	86
Useful efficiency at rated heat output and high temperature regime ⁽²⁾	<i>η₄</i>	%	87.5	87.3
Useful efficiency at 30% of rated heat output and low temperature regime ⁽¹⁾	<i>η₁</i>	%	91.2	90.6
Auxiliary electricity consumption				
Full load	<i>e_{lmax}</i>	kW	0.152	0.162
Part load	<i>e_{lmin}</i>	kW	0.043	0.046
Stand-by	<i>P_{SB}</i>	kW	0.004	0.004
Other specifications				
Standby heat loss	<i>P_{stby}</i>	kW	0.083	0.095
Ignition burner power consumption	<i>P_{ign}</i>	kW	--	--

3 Technical specifications

Product name			EFU-S 22	EFU-S 29
Annual energy consumption	Q_{HE}	GJ	74	100
Sound power level, indoors	L_{WA}	dB	61	61
Emissions of nitrogen oxides	NO_x	mg/kWh	116	116
(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.				

4 Description of the product

4.1 General description

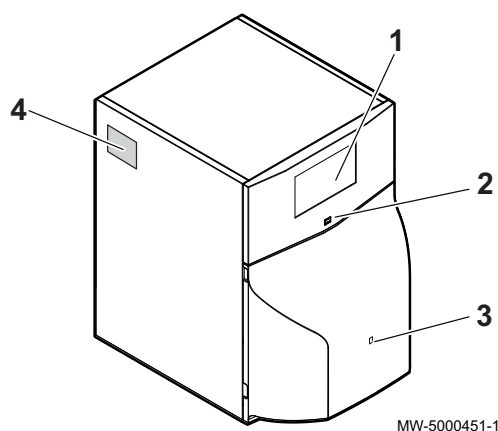
The floor-standing oil boilers in the EFU-S range have the following specifications:

- Heating only with possibility to produce domestic hot water by combining them with a domestic hot water tank
- High-efficiency heating
- Low polluting emissions
- Heating body in cast iron
- Pre-assembled and pre-set oil burner
- Electronic control panel
- Flue gas discharge via a chimney type connection

4.2 Main components

4.2.1 Boiler

Fig.2



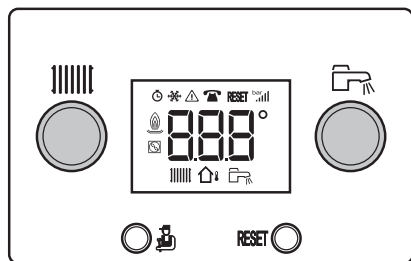
MW-5000451-1

- 1 Control panel
- 2 On/Off switch
- 3 Access to the burner manual reset button
- 4 Data plate

4.3 Description of the control panel B-Control

4.3.1 Description of the keys

Fig.3

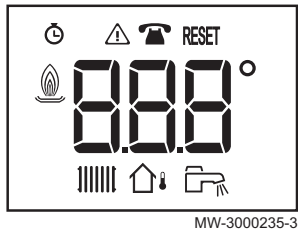


MW-5000031-3

- ||||| Heating temperature setting button
- 👤 Level access key: Information, Installer or Chimney Sweep
- RESET Manual reset key
- 🚰 Domestic hot water temperature setting button

4 Description of the product

Fig.4

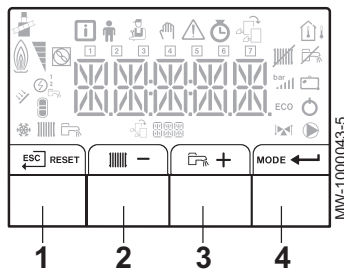


4.3.2 Description of the display

- Hour run meter
- Malfunctions
- Maintenance
- Reset necessary
- Burner status
- Heating mode
- Outside temperature sensor
- Domestic hot water mode

4.4 Description of the control panel IniControl 2

Fig.5



4.4.1 Description of the keys

- 1 : back to the previous level without saving the modifications made
RESET: manual reset
- 2 : accessing the heating parameters
- : lowering the value
- 3 : accessing the domestic hot water parameters
+ : raising the value
- 4 **MODE**: MODE display
: accessing the menu selected or confirming the value modification

4.4.2 Description of the display

■ Burner Operation

- Burner ON

■ Operating modes

- Steady symbol: heating function enabled
- Flashing symbol: heating production running
- Steady symbol: domestic hot water function enabled
- Flashing symbol: domestic hot water production running
- Heating function disabled
- Domestic hot water function disabled

Fig.6



Fig.7



Fig.8



■ Menu display

-  **Information** menu: displays the measured values and the statuses of the appliance
-  **User** menu: provides access to the User level setting parameters
-  **Installer** menu: provides access to the Installer level setting parameters
-  **Manual Forcing** menu: the appliance runs at the set point displayed, the pumps operate and the three-way valves are not controlled.
-  **Malfunction** menu: the appliance has malfunctioned. This information is signalled by an error code and a flashing display.
-  **Sub-Menu COUNTERS**
 - **TIME PROG** sub-menu: Timer programming dedicated to heating and domestic hot water production
 - **Sub-Menu CLOCK**
-  **PCB selection** menu: access to information on the additional PCBs connected

■ Display of PCB names

-  The name of the PCB for which the parameters are displayed is shown as 3 characters.

Fig.9

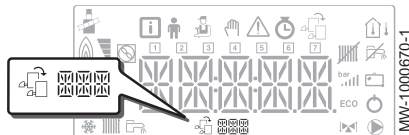
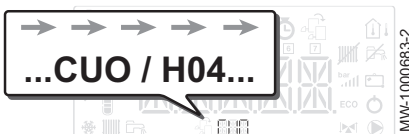
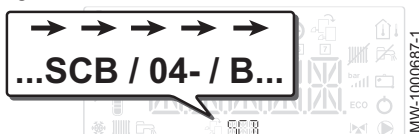


Fig.10



CU-OH04 central unit PCB for the boiler

Fig.11



SCB-04B additional PCB: 2nd circuit

Fig.12

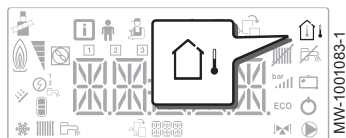


■ COUNTERS / TIME PROG / Sub-Menus CLOCK

-  **COUNTERS** sub-menu (CNT)
- TIME PROG** sub-menu: Timer programming dedicated to heating and domestic hot water production (CIRC A, CIRC B, ECS)
 -  **Timer program for Monday**
 -  **Timer program for Tuesday**
 -  **Timer program for Wednesday**
 -  **Timer program for Thursday**
 -  **Timer program for Friday**
 -  **Timer program for Saturday**
 -  **Timer program for Sunday**
 - **CLOCK** sub-menu (CLK)

4 Description of the product

Fig.13



■ Temperature sensors

-  Outside temperature sensor connected:
 - fixed symbol for WINTER mode,
 - flashing symbol for SUMMER mode.

Fig.14



■ Other Information

-  **Chimney Sweep Menu:** forced operation in full load mode
-  Three-way valve connected
-  Three-way valve closed
-  Three-way valve open
-  Pump running

5 Utilisation with the control panel B-Control

5.1 Browsing in the menus

Press any key to turn on the backlight for the control panel screen.



Important

If no key is pressed within 3 minutes, the control panel backlight will go out.

The  key is used to access the various menus:

Tab.3 Menu available

Information menu
Chimney Sweep menu

Fig.15

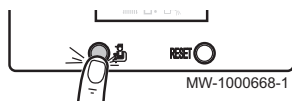


Fig.16

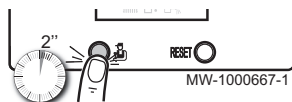


Fig.17



Press the  key to access the **Information** menu.

Press the key  for 2 seconds to go back to the main display.

Press the  key for 2 seconds to access the **Chimney Sweep** menu.

Press the key  for 2 seconds to go back to the main display.

Keep pressing the  key to scroll through the information.



Important

- **Information** menu: 5 minutes after the  key is pressed for the last time, the display goes back to the main display.
- **Chimney Sweep** menu: Thirty minutes after the  key is pressed for the last time, the display goes back to the main display.

5.2 Start-up

If the boiler was powered off:

1. Check that the heating system and the boiler are adequately primed with water. Recommended pressure between 0.15 and 0.2 MPa (1.5 and 2.0 bar).
2. Check that the storage tank is filled with fuel.
3. Open the oil inlet valve.
4. Switch on the boiler.
⇒ A venting cycle is run automatically.

The display shows the operating status of the boiler, the heating flow temperature and any error codes.

5.3 Shutdown

Fig.18

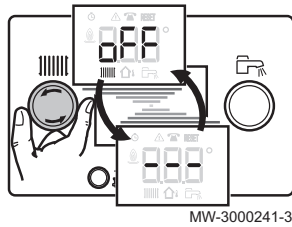
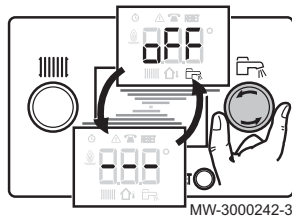


Fig.19



5.3.1 Switching off the heating

1. Turn the setting button  all the way to the left until **OFF** is displayed.


Important

The frost protection function continues to run

5.3.2 Stopping domestic hot water production

1. Turn the setting button  all the way to the left until **OFF** is displayed.


Important

Frost protection continues to run on the domestic hot water tank. The venting cycle is not tripped when domestic hot water production is shut down.

5.3.3 Shutting down the installation

It is recommended that the boiler is kept powered on to ensure frost protection.

5.4 Frost protection


Caution

The frost protection function does not work if the boiler is powered off.


Caution

The integrated protection system only protects the boiler, not the heating installation


Caution

Have the boiler and heating system drained by a qualified professional if the home is left empty for a long period of time and there is a chance of frost.


Important

To prevent the radiators and the installation from freezing in places where that risk exists (e.g. in a garage or an equipment room), we recommend the connection of an outside temperature sensor to the boiler.

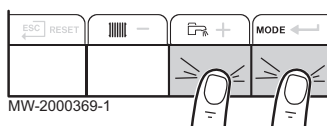
If the temperature of the water in the boiler falls too much, the integrated protection device switches itself on. This device functions as follows:

- If the water temperature is lower than 7°C, the circulation pump starts up.
- The water temperature is lower than 4°C, the boiler starts up and switches off when the water temperature is above 35°C.
- If the water temperature is higher than 10°C, the boiler shuts down and the circulating pump continues to run for a short time.

6 Utilisation with the control panel IniControl 2

6.1 Browsing in the menus

Fig.20



Press any key to turn on the backlight for the control panel screen.

If no key is pressed within 3 minutes, the control panel backlight will go out.

Press the 2 right-hand keys together to access the different menus:

Tab.4 Menu available

	Information menu
	User menu
	Installer menu
	Manual Forcing menu
	Malfunction menu
	COUNTERS sub-menu TIME PROG sub-menu CLOCK sub-menu
	PCB selection menu
	Important The icon is displayed only if an optional PCB has been installed.

Fig.21



Fig.22

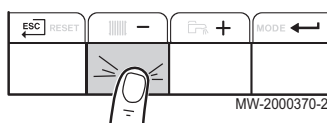
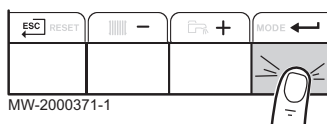


Fig.23



Important

The different menus are only accessible when the icons flash.

Press the **+** key to:

- access the next menu,
- access the next sub-menu,
- access the next parameter,
- increase the value.

Press the **-** key to:

- access the previous menu,
- access the previous sub-menu,
- access the previous parameter
- decrease the value.

Press the confirmation key **→** to confirm:

- a menu,
- a sub-menu,
- a parameter,
- a value.

When the temperature is displayed, briefly pressing the back key **←** will return to the time display.

6.2 Start-up

If the boiler was powered off:

1. Check that the heating system and the boiler are adequately primed with water. Recommended pressure between 0.15 and 0.2 MPa (1.5 and 2.0 bar).
2. Check that the storage tank is filled with fuel.
3. Open the oil inlet valve.
4. Switch on the boiler.
⇒ A venting cycle is run automatically.

The display shows the operating status of the boiler, the heating flow temperature and any error codes.

Fig.24

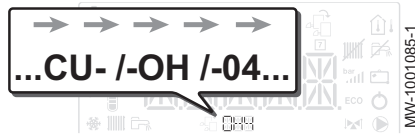


Fig.25 Management of a second circuit

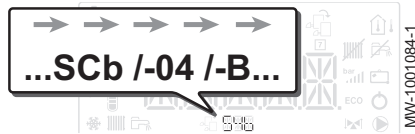
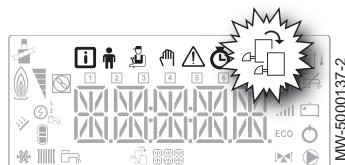


Fig.26



Fig.27



6.2.1 Description of the PCBs

When commissioning the boiler, the PCB displayed is the **CU-OH04**.

The primary circuit is managed by the **CU-OH04** central unit PCB. The name of the PCB is displayed on the screen: **CU - OH - 04**.



See

Boiler instructions for setting the boiler parameters

Only the installer can access the parameters and settings for each PCB.

In order to control an installation that has an additional circuit, it will be necessary to install the **SCB-04** PCB. The name of the PCB is displayed on the screen: **SCb - 04 - B**.



Important

Given that numerous settings can be made on the 2 PCBs, depending on the circuit concerned, the name of the PCB will be represented by **BBB** in the rest of the manual.

6.2.2 Selecting a PCB

1. Access the menus by pressing the two keys on the right simultaneously.

2. Access the **PCB selection** menu (only when several PCBs are present).



Important

The **PCB selection** menu is available only when the  icon flashes.

3. Scroll through the names of the connected additional PCBs by pressing the **+** or **-** keys.
⇒ The names of the installed PCBs will be displayed in sequence.
4. Confirm the required PCB by pressing the **←** key.



Important

The flow temperature for the selected PCB is displayed by default, as well as the status of the pump(s) and the status of the valve connected to the selected PCB.

5. Go back to the main display by pressing the **ESC** key.



For more information, see

Modifying the User parameters, page 29
COUNTERS /TIME PROG / CLOCK menus, page 27
User menu, page 25

6.3 Shutdown

6.3.1 Switching off the heating



Important

Heating mode can be managed via the **TIME PROG** sub-menu dedicated to timer programming.

Fig.28

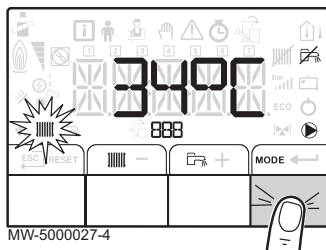


Fig.29

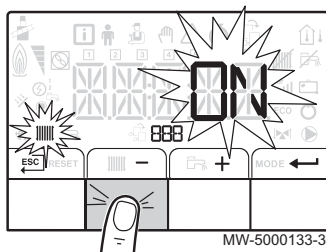


Fig.30

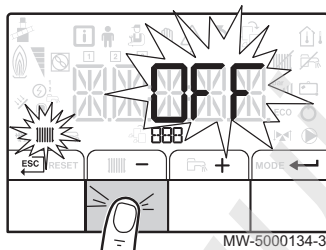
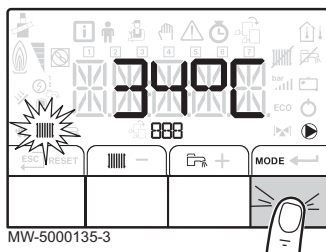


Fig.31



1. Go to stop mode by pressing the **MODE** key.

2. Select the heating mode by pressing the **-** key.
3. Confirm by pressing the **←** key.

4. Select the heating shut-down pressing the **-** key.
 - ⇒ The screen displays: **OFF**.
 - The frost protection function continues to run.
 - The heating has been shut down.



Important

Press the **+** key to restart the appliance: the screen will display **ON**.

5. Confirm by pressing the **←** key.
6. Go back to the main display by pressing the **ESC** key.



Important

The display disappears after a few seconds of inactivity.

6.3.2 Stopping domestic hot water production



Important

Domestic hot water production can be managed via the **TIME PROG** sub-menu dedicated to timer programming.

1. Go to stop mode by pressing the **MODE** key.

Fig.32

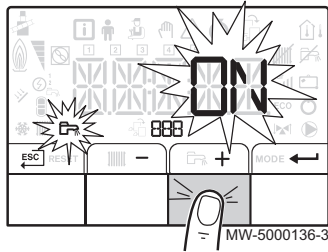
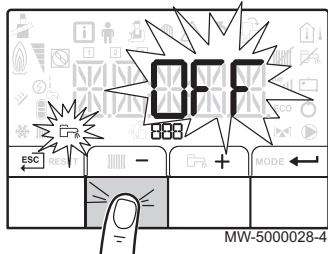


Fig.33



2. Select domestic hot water production mode pressing the **+** key.
3. Confirm by pressing the **←** key.

4. Select domestic hot water production shut-down by pressing the **—** key.

⇒ The screen displays: **OFF**.

- The frost protection function continues to run.
- Production of domestic hot water has been shut down.

i Important

Press the **+** key to restart the appliance: the screen will display **ON**.

5. Confirm by pressing the **←** key.
6. Go back to the main display by pressing the **ESC** key.

i Important

The display disappears after a few seconds of inactivity.

6.3.3 Shutting down the installation

It is recommended that the boiler is kept powered on to ensure frost protection.

6.4 Frost protection



Caution

The frost protection function does not work if the boiler is powered off.



Caution

The integrated protection system only protects the boiler, not the heating installation



Caution

Have the boiler and heating system drained by a qualified professional if the home is left empty for a long period of time and there is a chance of frost.



Important

To prevent the radiators and the installation from freezing in places where that risk exists (e.g. in a garage or an equipment room), we recommend the connection of an outside temperature sensor to the boiler.

If the temperature of the water in the boiler falls too much, the integrated protection device switches itself on. This device functions as follows:

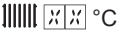
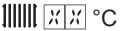
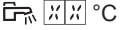
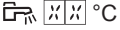
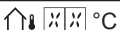
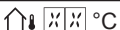
- If the water temperature is lower than 7°C, the circulation pump starts up.
- The water temperature is lower than 4°C, the boiler starts up and switches off when the water temperature is above 35°C.
- If the water temperature is higher than 10°C, the boiler shuts down and the circulating pump continues to run for a short time.

7 Control panel settings B-Control

7.1 List of parameters

7.1.1 Information menu

Tab.5 Information list

Information	Description	Display
 °C	Heating water temperature (°C)	The symbol  flashes
 °C	Domestic hot water temperature (°C)	- The symbol  flashes - If no domestic hot water sensor connected: display — — —
 °C	Outdoor temperature (°C)	The symbol  flashes.
	Burner status	0 = burner off 100 = burner on
	Energy meter on the heating water circuit	- The symbol  and the value flash - The value in kW () is displayed alternately with the value in MW () - Example: for 12560 kW,  will display alternating with 
	Energy meter on the domestic hot water circuit	- The symbol  and the value flash - The value in kW () is displayed alternately with the value in MW () - Example: for 12560 kW,  will display alternating with 
	Not available	



For more information, see
Browsing in the menus, page 19

7.2 Setting the parameters

7.2.1 Setting the heating water temperature

No temperature sensor connected	Outside temperature sensor connected
Set the heating water temperature setpoint	Set the required room temperature

Fig.34



- Set the temperature setpoint or room temperature depending on the configuration described above by turning the setting button .



Important

If the heating water temperature setpoint is lower than 16°C and if no outside temperature sensor is connected, the heating cuts out automatically.

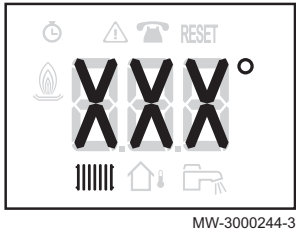


Important

This setting is possible regardless of the display.

7 Control panel settings B-Control

Fig.35



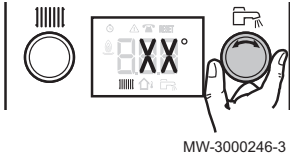
2. Go back to the main display by pressing the  key for two seconds.

**Important**

After five seconds without pressing any keys on the control panel, the display goes back to the main display.

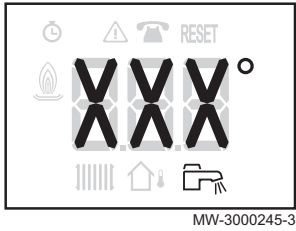
7.2.2 Modifying the domestic hot water temperature setpoint

Fig.36



1. Set the domestic hot water temperature setpoint by turning the setting button .

Fig.37



2. Go back to the main display by pressing the  key for two seconds.

**Important**

After five seconds without pressing any keys on the control panel, the display goes back to the main display.

8 Control panel settings IniControl 2

8.1 List of parameters

8.1.1 User menu

Fig.38



MW-2000435-1

- 1 Sub-menu available
2 Name of the PCB or circuit

- 3 Setting parameters

Tab.6 List of User sub-menus 

Sub-menu	Description	Name of the PCB or circuit
<i>CIRCA</i>	Main heating circuit	<i>CUOH04</i>
<i>CIRCB</i>	Additional heating circuit B	<i>SCB04-B</i>
<i>ECS</i>	Domestic hot water circuit	<i>CUOH04</i>
<i>CU-OH-04</i>	CU-OH04 central unit PCB	<i>CUOH04</i>
<i>SCB-04-B</i>	Additional PCB for circuit B	<i>SCB04-B</i>
<i>HMI</i>	HMI control panel	<i>HMI</i>



Important

CP : Circuits Parameters = Heating circuit parameters

Tab.7 List of parameters in the *CIRCA* / *CIRCB* sub-menus of the User menu 

Parameter	Description	CU-OH04 factory setting	Factory setting SCB-04B
CP010	Heating water flow temperature set point for the heated zone if no outside temperature sensor has been connected. For the CU-OH04 PCB: Can be set from 7 to 90°C For the SCB-04B PCB: Can be set from 7 to 100°C	75°C	50°C
CP080	Activity zone 1 temperature set point Can be set from 5 to 30°C	16°C	16°C
CP081	Activity zone 2 temperature set point Can be set from 5 to 30°C	20°C	20°C
CP082	Activity zone 3 temperature set point Can be set from 5 to 30°C	6°C	6°C
CP083	Activity zone 4 temperature set point Can be set from 5 to 30°C	21°C	21°C
CP084	Activity zone 5 temperature set point Can be set from 5 to 30°C	22 °C	22 °C
CP085	Activity zone 6 temperature set point Can be set from 5 to 30°C	20°C	20°C
CP140	Reduced cooling set point Can be set from 20 to 30°C	not available	30°C
CP141	Comfort cooling set point Can be set from 20 to 30°C	not available	25°C
CP142	Set point cooling activity zone 3 Can be set from 20 to 30°C	not available	25°C

Parameter	Description	CU-OH04 factory setting	Factory setting SCB-04B
CP143	Set point cooling activity zone 4 Can be set from 20 to 30°C	not available	25°C
CP144	Set point cooling activity zone 5 Can be set from 20 to 30°C	not available	25°C
CP145	Set point cooling activity zone 6 Can be set from 20 to 30°C	not available	25°C
CP200	Room temperature set point in forced mode Can be set from 5 to 30°C	20°C	20°C
CP320	Circuit operating mode: 0 = timer programming 1 = manual mode 2 = frost protection mode	0	0
CP350	Do not modify this setting.	not available	55°C
CP360	Do not modify this setting.	not available	10°C
CP510	Circuit temporary room temperature set point Can be set from 5 to 30°C	20°C	20°C
CP540	Temperature set point for SWIMMING POOL mode Can be set from 0 to 39°C.	not available	20°C
CP550	Chimney zone 0 = off 1 = on	0	0
CP570	Do not modify this setting.	0	0
CP660	Select the icon to display this zone on the room sensor: 0 = none 1 = all 2 = bedroom 3 = living room 4 = office 5 = outside 6 = kitchen 7 = basement	3	3

**Important**

DP : Direct Hot Water Parameters = Domestic hot water tank parameters

Tab.8 List of parameters in the **ECS** sub-menu of the User menu

Parameter	Description	CU-OH04 factory setting
DP060	Number of timer programs selected for domestic hot water production mode Can be set from 0 to 2	0
DP070	Domestic hot water temperature set point in comfort mode Can be set from 40 to 65°C.	55°C
DP080	Domestic hot water temperature set point in reduced mode Can be set from 10 to 60°C.	10°C
DP200	Domestic hot water production mode: 0 = timer programming 1 = manual mode 2 = frost protection mode	0
DP337	Water temperature set point in the domestic hot water tank in holiday mode Can be set from 10 to 60°C.	10°C

**Important**

AP : Appliance Parameters = Appliance parameters

Tab.9 List of parameters in the *CUOH04/SCB04-B* sub-menus of the User menu

Parameter	Description	CU-OH04 factory setting	Factory setting SCB-04B
AP016	Central heating operation: 0 = off (no heating or cooling) 1 = on	1	not available
AP017	Domestic hot water tank operation: 0 = off 1 = on	1	not available
AP073	SUMMER / WINTER set point switch: - Can be set from 15 to 30°C - set to 30.5°C = function deactivated	22°C	only accessible to the installer
AP074	SUMMER override: 0 = off 1 = on	0	0
AP082	Changing the summer/winter timer <i>DL S</i> : 0 = off 1 = on	1	not available

**For more information, see**

Browsing in the menus, page 19

Selecting a PCB, page 20

8.1.2 COUNTERS /TIME PROG / CLOCK menus

Tab.10 List of sub-menus

Sub-menu	Description
<i>CNT</i>	COUNTERS
<i>CIRCA</i> ⁽¹⁾	Timer programming for the main heating circuit
<i>CIRCB</i> ⁽¹⁾	Timer programming for the additional heating circuit B
<i>ECS</i>	Timer programming for the domestic hot water circuit
<i>CLK</i>	Setting the clock and the date

(1) This menu is not displayed if a room sensor is connected.

**For more information, see**

Browsing in the menus, page 19

Selecting a PCB, page 20

■ COUNTERS sub-menuTab.11 Choices available in the *CNT* sub-menu: names of associated PCBs (only when several PCBs are present)

Sub-menu	PCB	Parameter
<i>CU-OH-04</i>	CU-OH04 central unit PCB	<i>AC</i> <i>BC</i> <i>PC</i> <i>SERVICE</i>
<i>SCB-04-B</i>	Additional PCB for circuit B	<i>AC</i> <i>CC</i> <i>SERVICE</i>

Parameter	Description	Unit	CU-OH04 PCB	SCB-04B PCB
AC001	Number of hours' operation	hours	X	X
AC005	Consumption in heating mode	kWh	X	
AC006	Consumption in domestic hot water production mode	Wh	X	
AC026	Number of hours' pump operation	hours	X	
AC027	Number of pump start-ups	-	X	
CC001	Number of hours' pump operation	hours		X
CC010	Number of pump start-ups	hours		X
DC002	Number of reversal valve cycles	-	X	
DC003	Number of hours' reversal valve operation	hours	X	
DC004	Number of burner start-ups in domestic hot water production mode	-	X	
DC005	Number of hours of burner operation in domestic hot water production mode	hours	X	
PC002	Number of burner start-ups	-	X	
PC003	Number of hours of burner operation	hours	X	
PC004	Number of safety lock-downs (E36)	-	X	
AC002	Number of hours' burner operation since the last service	hours	X	
AC003	Number of hours' operation since the last service	hours	X	
AC004	Number of burner start-ups since the last service	-	X	
SERVICE	Resetting the maintenance service <i>CLR</i> : hour run meters <i>AC002</i> , <i>AC003</i> , <i>AC004</i> are reset.	-	X	

Tab.12 List of parameters in the *CLR* sub-menu of the  menu

Parameter	Unit	HMI
HOURS	Can be set from 0 to 23	available
MINUTE	Can be set from 0 to 59	available
DATE	Can be set from 1 to 31	available
MONTH	Can be set from 1 to 12	available
YEAR	Can be set from 2000 to 2100	available

8.2 Setting the parameters

Fig.39

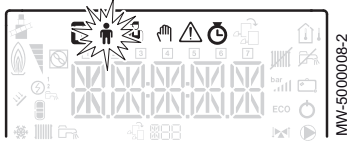


Fig.40

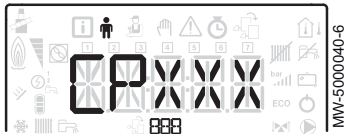
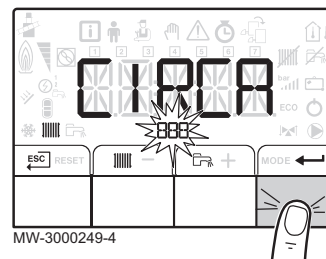


Fig.41



Fig.42



8.2.1 Modifying the User parameters



Caution

Altering the factory settings may impair operation of the appliance.

1. Go to the **User** menu.
2. Select the desired sub-menu by pressing the **+** or **-** key.
3. Confirm the selection by pressing the **←** key.

4. Select the required parameter by pressing the **+** or **-** keys to scroll through the list of adjustable parameters.
5. Confirm the selection by pressing the **←** key.
6. Modify the value of the parameter using the **+** or **-** keys.
7. Confirm the new value of the parameter by pressing the **←** key.
8. Go back to the main display by pressing the **ESC** key.



For more information, see

Browsing in the menus, page 19
Selecting a PCB, page 20

8.2.2 Setting the heating



Caution

Altering the factory settings may impair operation of the appliance.



Important

The heating mode can be managed using the **TIME PROG** menu.

1. Access the heating parameters by pressing the key.
2. Select the desired circuit, if there are several PCBs, by pressing the **+** or **-** key.
3. Confirm the selection by pressing the **←** key.
⇒ The status of the heating and the associated heating water temperature set point are displayed alternately.
4. Select the mode to be modified by pressing the **+** or **-** key:
 - 4.1. ON mode = comfort
 - 4.2. ECO mode = reduction
5. Modify the heating water temperature set point for the selected mode by pressing the **+** or **-** key.



Important

Press the **ESC** key to cancel all input.

6. Confirm the new temperature set point by pressing the **←** key.
7. Go back to the main display by pressing the **ESC** key.

8.2.3 Setting the domestic hot water temperature



Important

Domestic hot water production can be managed via the **TIME PROG** sub-menu dedicated to timer programming.

Fig.43



1. Access the domestic hot water production parameters by pressing the key.
2. Modify the domestic hot water temperature set point by pressing the **+** or **-** key.

**Important**

Press the key to cancel all input.

3. Confirm the new temperature set point by pressing the key.
⇒ Go back to the main display by pressing the key.

8.2.4 Setting the timer programming

1. Access the **COUNTERS/ TIME PROG / CLOCK** menus.

**Important**

When using a programmable room thermostat, this menu is not displayed.

Fig.44

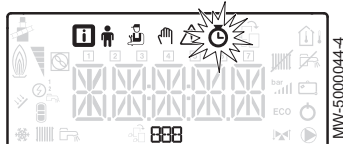
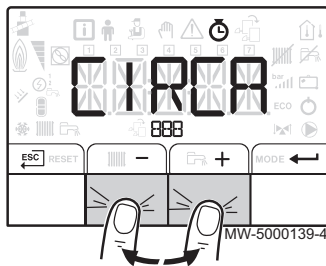
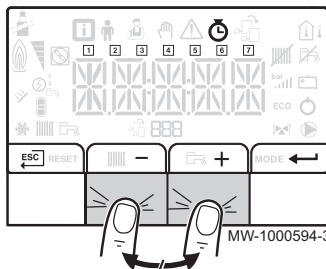


Fig.45



2. Select the desired circuit by pressing the **+** or **-** key.
3. Confirm the selection by pressing the key.
⇒ The icons dedicated to the days of the week all flash at the same time: .

Fig.46



4. Select the desired day number by pressing the **+** or **-** key until the icon dedicated to the desired day flashes.

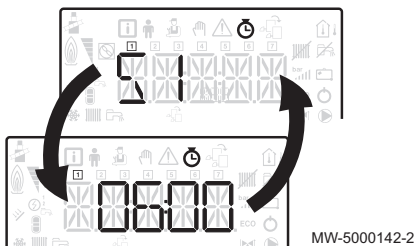
Day selected	Description
	every day of the week
	Monday
	Tuesday
	Wednesday
	Thursday
	Friday
	Saturday
	Sunday

**Important**

The **+** key is used to move to the right.

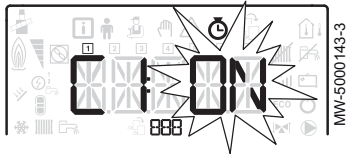
The **-** key is used to move to the left.

Fig.47



5. Confirm the selection by pressing the key.
6. Set the start time for the period by pressing the **+** or **-** key.
7. Confirm the selection by pressing the key.

Fig.48



8. Select the status $C1$ that corresponds to the period $S1$ by pressing the $+$ or $-$ key.

Status $C1$ to $C6$ for periods $S1$ to $S6$	Description
ON	comfort mode
ECO	reduced mode

9. Confirm the selection by pressing the $\leftarrow$ key.
 10. Repeat steps 8 to 11 to define the comfort periods $S1$ to $S6$ and the associated status $C1$ to $C6$.

i Important
 No setting: 10 minutes
 The setting END determines the end.

11. Go back to the main display by pressing the $\leftarrow$ $\leftarrow$ $\leftarrow$ key.

Example:

Times	$S1$	$C1$	$S2$	$C2$	$S3$	$C3$	$S4$	$C4$	$S5$	$C5$	$S6$	$C6$
06:00-22:00	06:00	ON	22:00	ECO	END							
06:00-08:00 11:30-13:30	06:00	ON	08:00	ECO	11:30	ON	13:30	ECO	END			
06:00-08:00 11:30-14:00 17:30-22:00	06:00	ON	08:00	ECO	11:30	ON	14:00	ECO	17:30	ON	22:00	ECO

8.2.5 Activating Manual Forcing for heating

The **Manual Forcing** menu is only used with the heating mode.

1. Access the **Manual Forcing** menu.

Fig.49

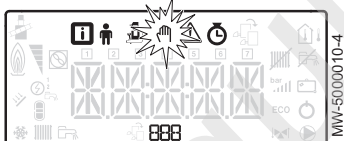
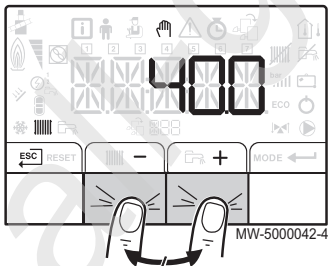


Fig.50



2. Set the value of the heating water temperature set point by pressing the $+$ or $-$ key.
 3. Confirm the new value of the heating water temperature set point by pressing the $\leftarrow$ key.
 4. Go back to the main display by pressing the $\leftarrow$ $\leftarrow$ $\leftarrow$ key.

i Important
 To force domestic hot water production, select the $DP200$ parameter available in the **User** menu.

8.2.6 Reading out measured values **i**

The measured values are available in the **Information **i**** menu of the different PCBs.

Certain parameters are displayed:

- according to certain system configurations,
- according to the options, circuits or sensors actually connected.

Tab.13 List of sub-menus 

Sub-menu	Description
<i>CU-OH-04</i>	CU-OH04 central unit PCB
<i>HMI</i>	HMI control panel

Tab.14 List of sub-menus  for an installation with an additional PCB

Sub-menu	Description
<i>CU-OH-04</i>	CU-OH04 central unit PCB
<i>SCB-04-B</i>	SCB-04B additional PCB
<i>HMI</i>	HMI control panel

Tab.15 Values available (X) in sub-menus *CUOH04*, *SCB04-B*,

Parameter	Description	Unit	CU-OH04 PCB	SCB-04B PCB
AM010	Pump rotation speed	%	X	
AM012	Control system sequence: Status  Important See following table		X	X
AM014	Control system sequence: Sub-Status  Important See following table		X	X
AM016	Heating circuit flow temperature	°C	X	
AM018	Heating circuit return temperature	°C	X	
AM019	Heating circuit hydraulic pressure, in the heating system	bar	X	
AM027	Outdoor temperature	°C	X	
AM051	Generator relative output	%	X	
AM091	Seasonal mode active (Summer/Winter)		X	X
AM101	Temperature set point		X	
CM030	Room temperature measured	°C	X	X
CM040	Circuit flow temperature	°C		X
CM060	Pump speed	%		X
CM120	Circuit operating mode: •  = AUTO • <i>1</i> = manual •  = frost protection • <i>3</i> = temporary		X	X
CM130	Current activity status: •  = frost protection • <i>1</i> = reduced •  = comfort • <i>3</i> = anti-legionella		X	X
CM190	Desired room temperature set point	°C	X	X
CM210	Temperature outside the zone		X	X
DM001	Domestic hot water tank temperature	°C	X	X
PM002	Heating temperature set point	°C	X	
FX.XX	Software version for the selected PCB		X	X
PXX.XX	Parameter version for the selected PCB		X	X

■ Control system sequence

Tab.16 List of statuses and sub-statuses

Status (parameter <i>AMO 12</i>)	Sub-status (parameter <i>AMO 14</i>)
<i>0</i> = rest	• <i>0</i> = system on standby
<i>1</i> = heat demand (boiler start-up)	• <i>1</i> = anti-short cycle activated • <i>2</i> = open isolating valve (not available) • <i>3</i> = boiler pump or domestic hot water start-up
<i>2</i> = burner start-up	• <i>1 0</i> = opening of the flue gas valve / oil valve (not available) • <i>1 1</i> = opening of the flue damper • <i>1 2</i> = burner start-up • <i>1 4</i> = pre-ignition
<i>3</i> = boiler in heating mode	• <i>3 0</i> = nominal internal set point • <i>3 1</i> = limited internal set point • <i>3 2</i> = normal output check • <i>3 7</i> = temperature stabilisation time
<i>4</i> = boiler in domestic hot water production mode	• <i>3 0</i> = nominal internal set point • <i>3 1</i> = limited internal set point • <i>3 2</i> = normal output check • <i>3 7</i> = temperature stabilisation time
<i>5</i> = burner shut-down	• <i>4 0</i> = burner off • <i>4 2</i> = closure of the shut-off damper • <i>4 3</i> = closure of the flue damper
<i>6</i> = end of heat demand (boiler shut-down)	• <i>6 0</i> = boiler pump post-operation time delay or domestic hot water back-up start-up time delay • <i>6 1</i> = boiler pump or domestic hot water stopped • <i>6 2</i> = close isolating valve • <i>6 3</i> = start anti-short cycle
<i>8</i> = off	• <i>0</i> = awaiting burner start-up • <i>1</i> = anti-short cycle activated
<i>9</i> = blockage	• <i>XX XX</i> = blockage code XX

9 Maintenance

9.1 General

We recommend having the boiler inspected and serviced at regular intervals.


Caution

Do not neglect to service the boiler. Contact a qualified professional or take out a maintenance contract for the obligatory annual servicing of the boiler. Failure to service the appliance voids the warranty.


Caution

Have an inspection carried out and the flues swept **at least once a year** or more, depending on the regulations in force in your country.


Caution

Only qualified professionals are authorised to carry out maintenance work on the boiler and the heating system.


Caution

After maintenance or repair work, check the entire heating system to ensure that there are no leaks.


Caution

Only genuine spare parts may be used.

9.2 Maintenance instructions

9.2.1 Check the hydraulic pressure

1. Checking the hydraulic pressure in the installation.
2. If the hydraulic pressure is less than 0.08 MPa (0.8 bar), top up the level of water in the heating installation so that the hydraulic pressure is between 0.15 and 0.2 MPa (1.5 and 2.0 bar).
3. Carry out a visual check for any water leaks.

9.2.2 Topping up the installation with water

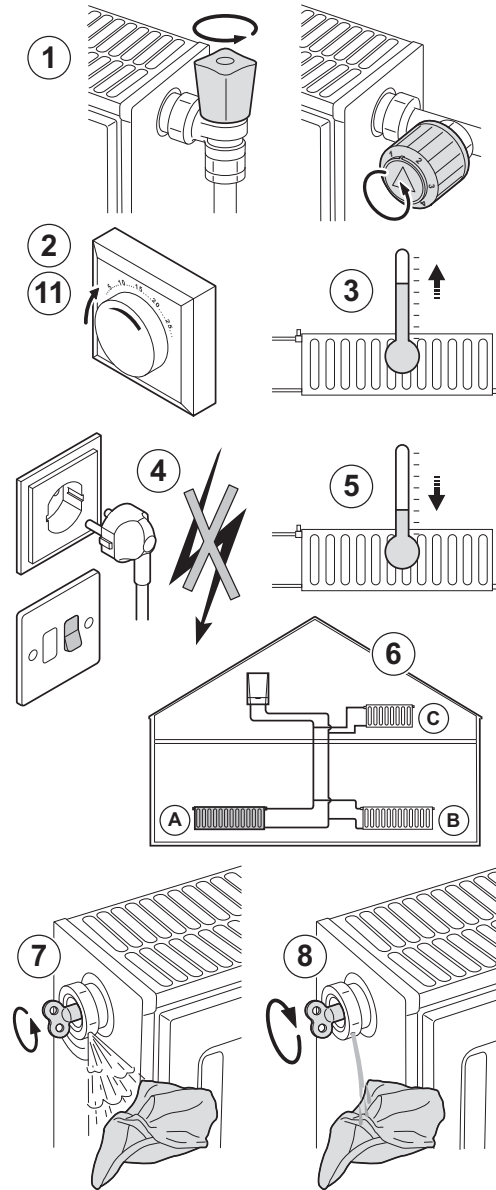
1. Open the valves on all radiators connected to the heating system.
2. Set the room thermostat to as low a temperature as possible.
3. Put the boiler in shut-down/frost protection mode.
4. Open the fill valve.
5. Close the filling valve when the pressure gauge shows a pressure of 0.15 MPa (1.5 bar).
6. Put the boiler in heating mode.
7. When the pump has stopped, vent again and top up the water pressure.


Important

Filling and venting the installation twice a year should be sufficient to obtain an adequate hydraulic pressure. If it is often necessary to top up the installation with water, contact your installer.

9.3 Venting the system

Fig.51 Venting the system



Any air in the boiler, the pipes or the valves must be removed in order to prevent unwanted noises that may occur during heating or when tapping water. To do this, proceed as follows:

1. Open the valves of all the radiators connected to the system.
2. Set the room thermostat to the highest possible temperature.
3. Wait until the radiators are warm.
4. Switch off the boiler.
5. Wait approximately 10 minutes, until the radiators feel cold.
6. Vent the radiators. Work from the lowest to the highest.
7. Open the venting valve with the bleed key, keeping a cloth pressed against the vent.



Warning

The water may still be hot.

8. Wait until water comes out of the venting valve and then close the venting valve.
9. Turn on the boiler.
⇒ A 3-minute venting cycle is performed automatically.
10. After venting, check that the water pressure in the system is still adequate. If necessary, top up the water level in the heating system.
11. Adjust the room thermostat or temperature control.

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10 Troubleshooting

10.1 Error messages B-Control

Fig.52

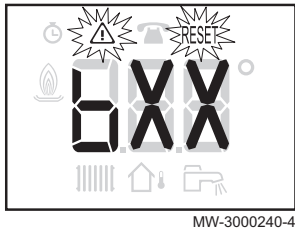
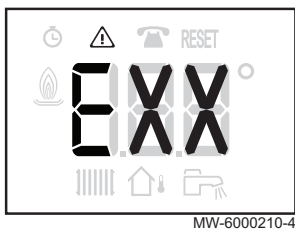


Fig.53



10.2 Error messages IniControl 2

Fig.54

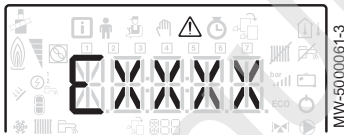


Fig.55

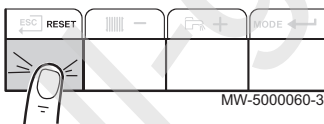
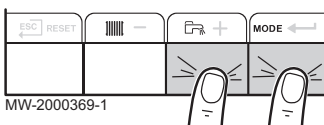


Fig.56



10.1.1 Error code display

If an error is detected, the error code is displayed automatically.



Important

The reset is automatic.

10.1.2 Fault code display

If a fault is detected, the fault code is displayed automatically.



Important

The  and RESET icons flash.
Reset by pressing the RESET button.

10.2.1 Error messages

Resetting the control panel allows the appliance to be restarted.

The message RESET appears when a fault code is detected. After resolving the problem, pressing the RESET key resets the appliance's functions and thus eradicates the fault.

If several faults occur, they are displayed one after the other.

1. Reset the control panel by pressing the RESET key for 3 seconds, when an error message is displayed.
⇒ In economy mode, the appliance will not run a domestic hot water heating cycle after a central heating cycle.
2. Display the current operating status by briefly pressing the  key.

10.2.2 Accessing the error memory

The error and fault codes are listed together in the memory.

1. Access the menus by pressing the two keys on the right simultaneously.

Fig.57

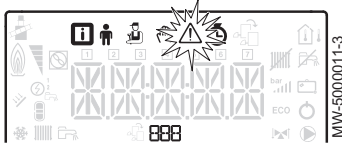


Fig.58

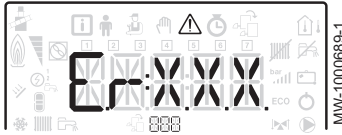


Fig.59



2. Select the Malfunction menu  by pressing the  key.

3. Select the PCB by pressing the  or  key. The  icon appears. Confirm the PCB selection by pressing the  key: the PCB name appears.

i Important
The **Er:xxx** parameter flashes. **000** corresponds to the number of stored errors.

4. Go to the error details by pressing the  key.
5. Scroll through the errors by pressing the  or  key. When this menu opens, the row of the error in the memory appears briefly. The PCB name appears. Go back to the error list by pressing the  key.

i Important
The errors are stored from the most recent to the oldest.

6. Go back to the **Er:xxx** display by pressing the  key. Press the  key: the **CLR** parameter flashes after the errors. **000** corresponds to the PCB selected.

⇒ Clear the error memory by pressing the  key.

7. Exit the Malfunctions menu by pressing the  key.

11 Environmental

11.1 Disposal and Recycling

Fig.60



Recycling

**Warning**

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

11.2 Energy savings

Energy-saving advice:

- 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 an energy-saving shower head, which can save up to 40 % energy.
- Take showers rather than baths. A bath consumes twice as much water and energy.

12 Warranty

12.1 General

We would like to thank you for buying one of our appliances and for your trust in our product.

In order to ensure continued safe and efficient operation, we recommend that the product is regularly inspected and maintained.

Your installer and our service department can assist with this.

12.2 Terms of warranty

The following provisions do not affect the application, in favour of the buyer, of the legal provisions with regard to hidden defects that are applicable in the buyer's country.

This appliance comes with a warranty that covers all manufacturing faults; the warranty period will commence on the date of purchase stated on the installer's invoice.

The warranty period is stated in our price list.

As a manufacturer, we can by no means be held liable if the appliance is used incorrectly, is poorly maintained or not maintained at all, or is not installed correctly (it is your responsibility to ensure that installation is carried out by a qualified installer).

In particular, we cannot be held liable for material damage, intangible losses or physical injury resulting from an installation that does not comply with:

- Legal or regulatory requirements or provisions laid down by the local authorities.
- National or local regulations and special provisions relating to the installation.
- Our manuals and installation instructions, in particular in terms of regular maintenance of the appliances.

Our warranty is limited to the replacement or repair of the parts found to be defective by our technical services team, excluding labour, transfer and transport costs.

Our warranty does not cover replacement or repair costs for parts that may become defective due to normal wear, incorrect usage, the intervention of unqualified third parties, inadequate or insufficient supervision or maintenance, a mains supply that is not appropriate or the use of unsuitable or poor quality fuel.

Smaller parts, such as motors, pumps, electrical valves etc., are guaranteed only if these parts have never been dismantled.

The rights established in European Directive 99/44/EEC, implemented by legal decree No. 24 of 2 February 2002 and published in Official Journal No. 57 of 8 March 2002, remain in force.

13 Appendix

13.1 Product fiche

Tab.17 Product fiche for boiler space heaters

Brand name - Product name		EFU-S 22	EFU-S 29
Seasonal space heating energy efficiency class		B	B
Rated heat output (<i>Prated or Psup</i>)	kW	22	30
Seasonal space heating energy efficiency	%	86	86
Annual energy consumption	GJ	74	100
Sound power level L _{WA} indoors	dB	61	61


See

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

13.2 Product fiche - Temperature Controls

Tab.18 Product fiche for the Temperature controls

		B-Control
Class		III
Contribution to space heating energy efficiency	%	1.5

13.3 Product data sheet - Temperature controls

Tab.19 Product data sheet for the Temperature controls

		IniControl 2
Class		III
Contribution to space heating energy efficiency	%	1.5

13.4 Product fiche

Fig.61 The boiler's product fiche indicates the space heating energy efficiency of the product.

Seasonal space heating energy efficiency of boiler		(1) [] %
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) %	(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.

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- 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: $294/(11 \cdot \text{Prated})$, whereby 'Prated' is related to the preferential space heater.
- IV The value of the mathematical expression $115/(11 \cdot \text{Prated})$, whereby 'Prated' is related to the preferential space heater.

Tab.20 Weighting of boilers

$\text{Psup} / (\text{Prated} + \text{Psup})^{(1)(2)}$	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.		

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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



VAN MARCKE BE

Weggevoerdenlaan 5
B- 8500 KORTRIJK

☎ +32 (0)56/23 75 11

www.vanmarcke.be

DE DIETRICH THERMIQUE Iberia S.L.U ES

C/Salvador Espriu, 11
08908 L'HOSPITALET de LLOBREGAT

☎ +34 935 475 850

@ info@dedietrich-calefaccion.es

www.dedietrich-calefaccion.es

MEIER TOBLER AG CH

Bahnstrasse 24 - CH - 8603 SCHWERZENBACH

☎ +41 (0) 44 806 41 41

@ info@meiertobler.ch

+41 (0)8 00 846 846 Serviceline

www.meiertobler.ch

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.ch

DE DIETRICH Technika Grzewcza 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/DeDietrichPL

www.dedietrich.pl

ООО «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.dedietrich.ru

NEUBERG S.A. LU

39 rue Jacques Stas - B.P.12
L- 2549 LUXEMBOURG

☎ +352 (0)2 401 401

www.neuberg.lu

www.dedietrich-heating.com

DE DIETRICH SERVICE AT

☎ 0800 / 201608 freecall

www.dedietrich-heiztechnik.com

DUEDI S.r.l IT

Distributore Ufficiale Esclusivo
De Dietrich-Thermique Italia Via Passatore, 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 4017

+86 (0)106 581 4018

+86 (0)106 581 7056

✉ +86 (0)106 581 4019

@ contactBJ@dedietrich.com.cn

www.dedietrich-heating.com

BDR THERMEA Czech Republic s.r.o CZ

Jeseniova 2770/56 - 130 00 Praha 3

☎ +420 271 001 627

@ dedietrich@bdrthermea.cz

www.dedietrich.cz



De Dietrich

