

Wall-hung gas condensing boilers

MCR 24

MCR 24/28 MI

MCR 30/35 MI

MCR 34/39 MI



User Guide

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1 Introduction

1.1 Symbols used

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, obviate 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.

1.2 Abbreviations

- ▶ **DHW:** Domestic hot water.
- ▶ **IRC:** Interactive remote control.
- ▶ **CRC:** Communicating remote controller.
- ▶ **Hi:** Lower heating value LHV (Nett).
- ▶ **Hs:** Higher heating value HHV (Gross).

1.3 General

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 initial start up 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.
- ▶ Have the required checks and services done.
- ▶ Keep the instruction manuals in good condition close to the appliance.

This appliance is not intended to be used by persons (including children) whose physical, sensory or mental capacity is impaired or persons with no experience or knowledge, unless they have the benefit, through the intermediary of a person responsible for their safety, of supervision or prior instructions regarding use of the appliance. Care should be taken to ensure that children do not play with the appliance.

To prevent hazardous situations from arising, if the mains lead is damaged it must be replaced by the original manufacturer, the manufacturer's dealer or another suitably skilled person.

1.4 Homologations

1.4.1. Certifications

CE identification no	PIN 0063BQ3009
NOx	< 70 mg/kWh
Type of connection	Chimney: B _{23P}
	Flue gas outlet: C ₁₃ , C ₃₃ , C ₄₃ , C ₅₃ , C ₆₃ , C ₈₃ , C ₉₃

2 Safety instructions and recommendations

2.1 Safety instructions

**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.

**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.

2.2 Recommendations



WARNING

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

- ▶ Regularly check the water pressure in the installation (minimum pressure 0,8 bar, recommended pressure between 1,5 and 2,0 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

3 Description

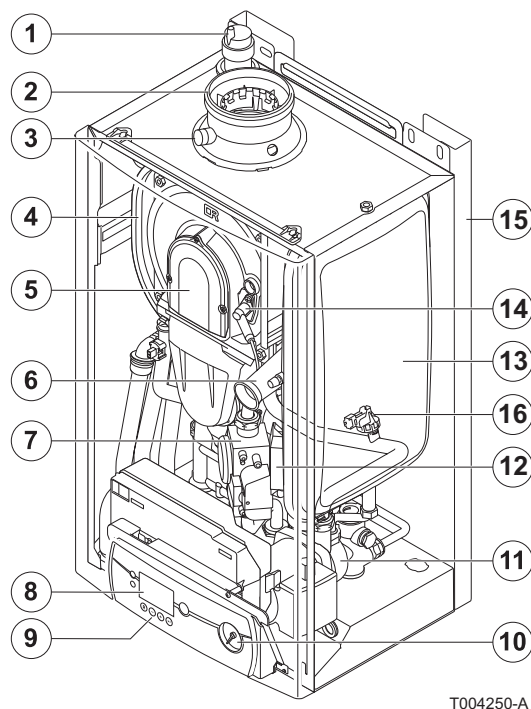
3.1 General description

Wall-hung gas condensing boilers

- ▶ **MCR 24** - Heating only.
- ▶ **MCR ../.. MI** - Heating and instantaneous domestic hot water production.
- ▶ Low pollutant emissions.
- ▶ Flue gas discharge via a forced flue, chimney, bi-flow or 3CE type connection.

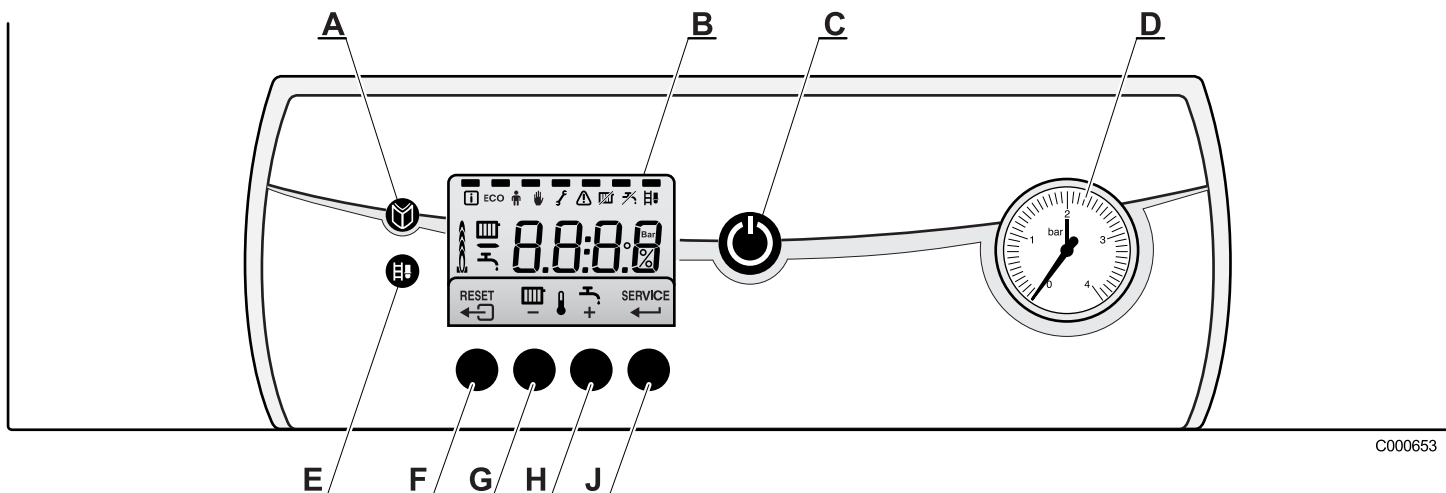
The **MCR 24** boiler can be connected to a 80 or 130 litre tank to produce domestic hot water.

3.2 Main parts





- | | |
|----|---|
| 1 | Automatic air vent |
| 2 | Flue gas discharge pipe / Combustive air |
| 3 | Outlet for measuring combustion gases |
| 4 | Heat exchanger |
| 5 | Air/gaz canal |
| 6 | Fan air inlet |
| 7 | Gas block |
| 8 | Display |
| 9 | Control panel |
| 10 | Pressure gauge |
| 11 | Circulating pump |
| 12 | Ignition transformer |
| 13 | Expansion vessel heating circuit (Except MCR 34/39 MI model) |
| 14 | Ignition/ionization electrode |
| 15 | Stand-off frame (optional), Mounting frame, delivered with the boiler |
| 16 | Water pressure sensor |

3.3 Control panel



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- A** Menu key
- B** Display
- C** Main ON/OFF switch
- D** Pressure gauge
- E** Sweep key
- F**  or **RESET** key
- G** Heating temperature key or -
- H** DHW temperature key or +
- J** **SERVICE** or  key

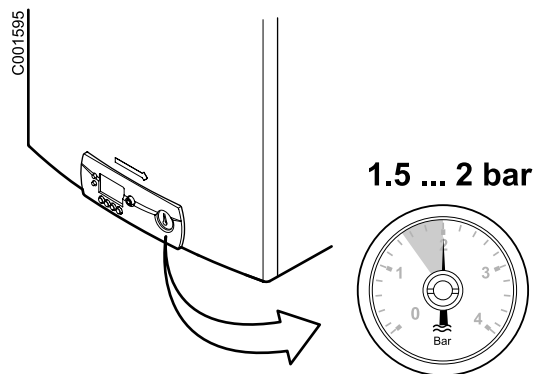
The display indicates the state of the boiler and any errors. The symbols located above the function keys indicate their current function.

Pressing on any key will display the current status of the boiler and the current command code. If there is a fault, the corresponding code continues to be displayed.

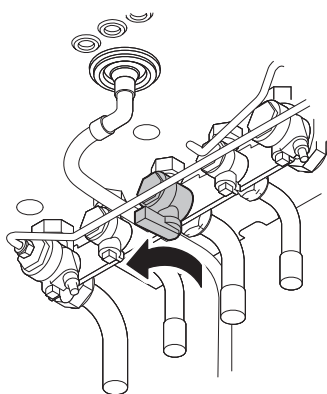
4 Operating the appliance

4.1 Start the boiler

1. Check the water pressure in the installation.



2. Open the gas valve.



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3. Throw the boiler's ON / OFF switch.


4. The start-up cycle begins. It lasts 2 minutes and cannot be interrupted.

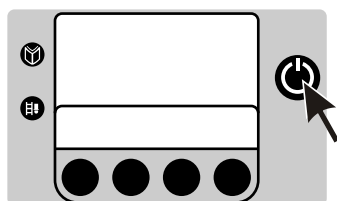
During the start-up cycle, the display shows the following information:

F : **X****X**: Software version

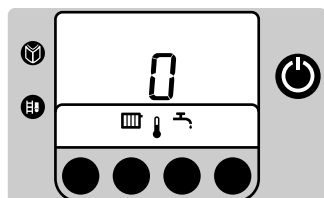
P : **X****X**: Parameter version

The version numbers are displayed alternately.

5. When the start-up cycle is finished, the display shows . The boiler is now operational.

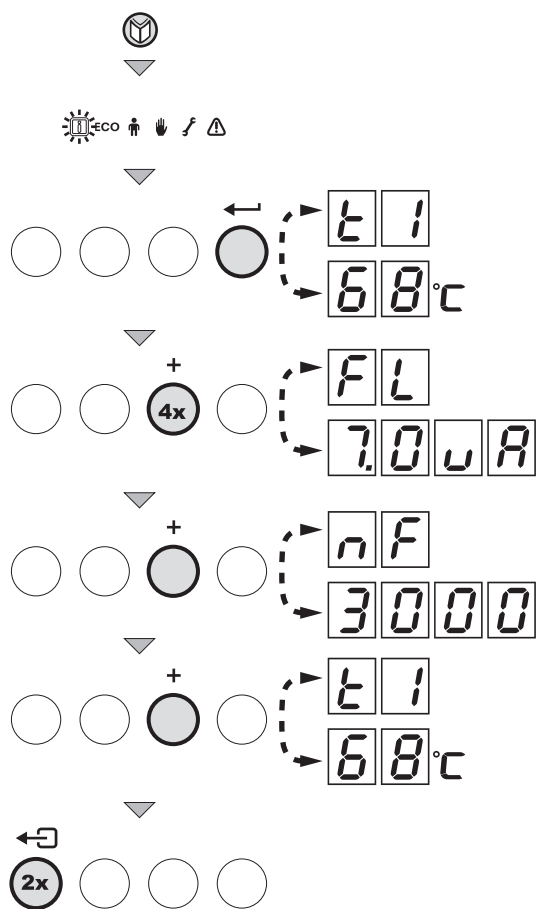


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4.2 Reading out measured values



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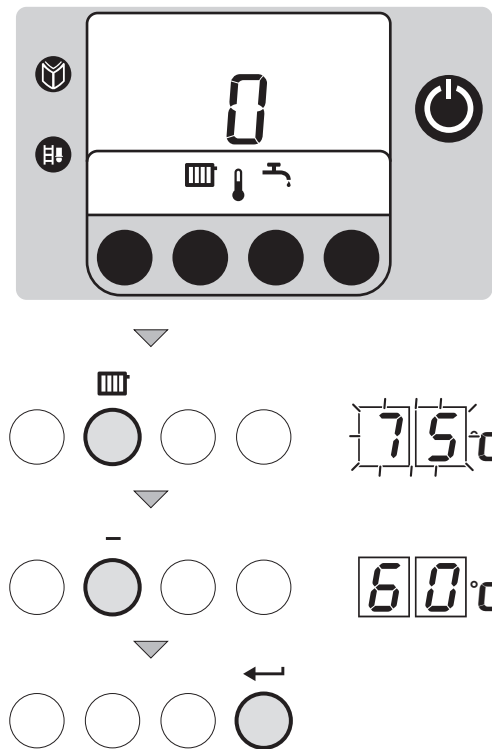
The following values can be displayed in the information menu **i**:

- ▶ **t1** = Flow temperature (°C)
- ▶ **t2** = Return temperature (°C)
- ▶ **t3** = Domestic hot water temperature (°C)
- ▶ **t4** = Outside temperature (°C)
- ▶ **FL** = Ionization current (µA)
- ▶ **nF** = Fan speed (rpm)

1. Press the **i** key. The symbol **i** flashes.
2. To access the parameters, press key ←.
3. Press the **+** key successively to scroll down the various parameters.
4. Press the ←↶ key 2 times to return to the current operating mode

4.3 Changing the settings

4.3.1. Changing the heating temperature






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If an outside temperature sensor or an OpenTherm control system is fitted, the heating flow temperature is adjusted automatically.

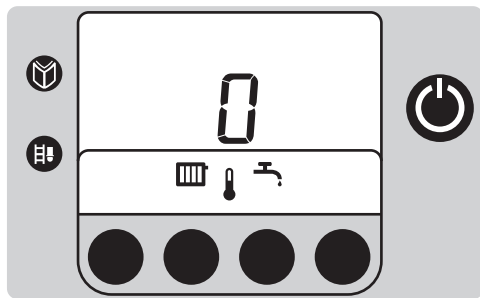
In summer, it is possible to reduce the heating flow temperature whilst maintaining comfort. To do this, proceed as follows:




1. Press the  key.
The symbol  and the current temperature are displayed.
2. Use the **[+]** and **[-]** keys to change the parameter value.
3. To confirm the new value, press the key .





It is also possible to modify this setting using the parameter .  See chapter: "Other settings", page 16.

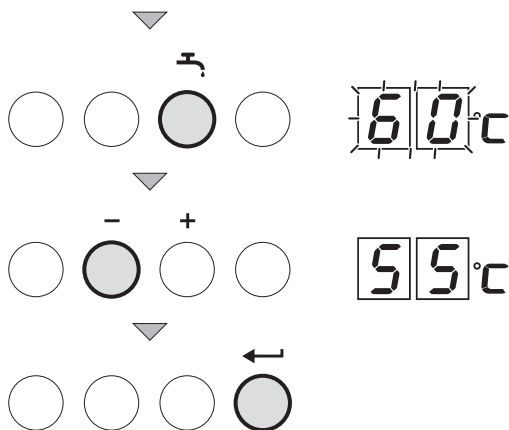
4.3.2. Changing the domestic hot water temperature



1. Press the  key.
The symbol  and the current temperature are displayed.
2. Use the **[+]** and **[-]** keys to change the parameter value.
3. To confirm the new value, press the key .



It also possible to modify this setting using the parameter .  See chapter: "Other settings", page 16.









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

4.3.3. Modifying the comfort setting (ECO)

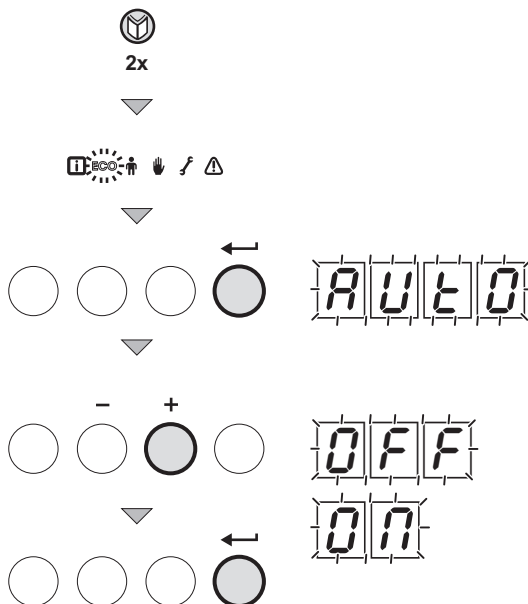
The user can consult or modify the following 3 settings:

- ▶ ON = Activation of the energy-saving setting.
- ▶ OFF = Activation of the comfort setting.
- ▶ AUTO = Setting dependent on the control unit (Factory setting).

1. Press the  key 1 times. The symbol  flashes.
2. Press the  key a second time. The symbol **ECO** flashes.
3. To confirm, press the  key.
4. The current operating status is shown on the display: **AUTO**.
5. Use the **+** and **-** keys to change the parameter value.
6. To confirm, press the  key.
7. Press the  key 2 times to return to the current operating mode.

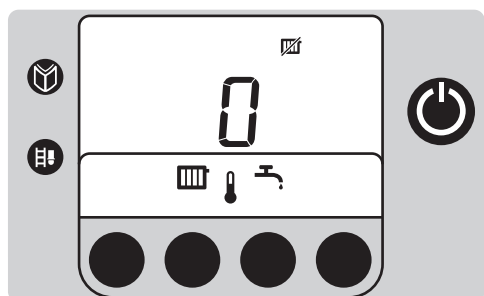
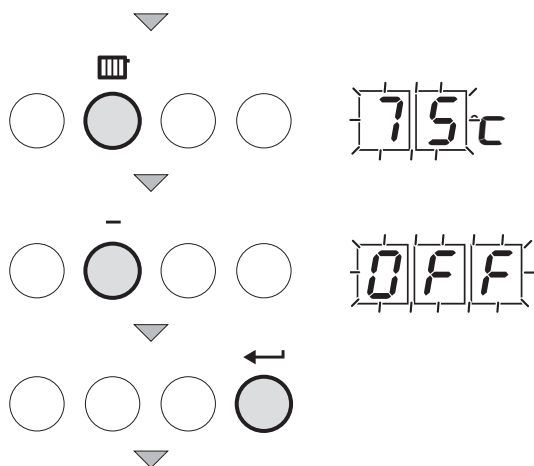
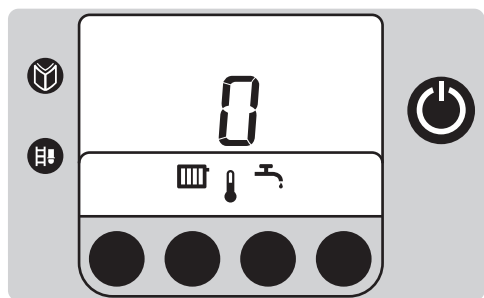


It also possible to modify this setting using the parameter .  See chapter: "Other settings", page 16.








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4.3.4. Stopping the central heating or activating the Summer mode





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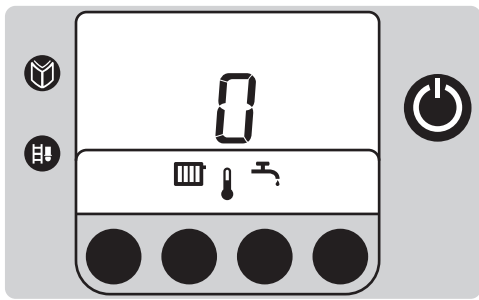
1. Press the  key.
The symbol  and the current temperature are displayed.
2. Press the key  several times until the value  is displayed.
3. To confirm the new value, press the key .

The symbol  appears.



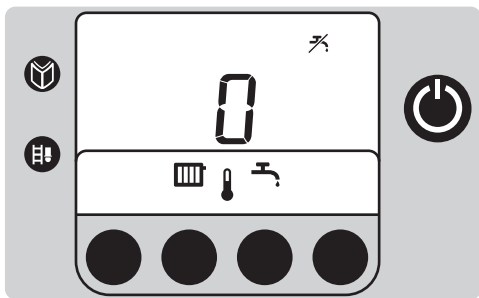
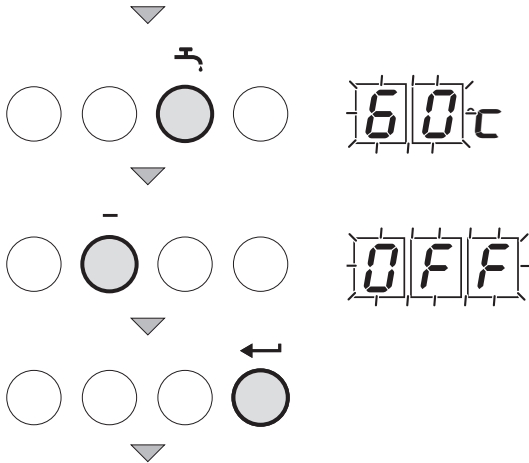
- ▶ It is also possible to modify this setting using the parameter .  See chapter: "Other settings", page 16.
- ▶ Domestic hot water production is maintained.

4.3.5. Stopping domestic hot water production



1. Press the key.
The symbol and the current temperature are displayed.
2. Press the key [-] several times until the value **OFF** is displayed.
3. To confirm the new value, press the key .

i It also possible to modify this setting using the parameter **P3**. See chapter: "Other settings", page 16.

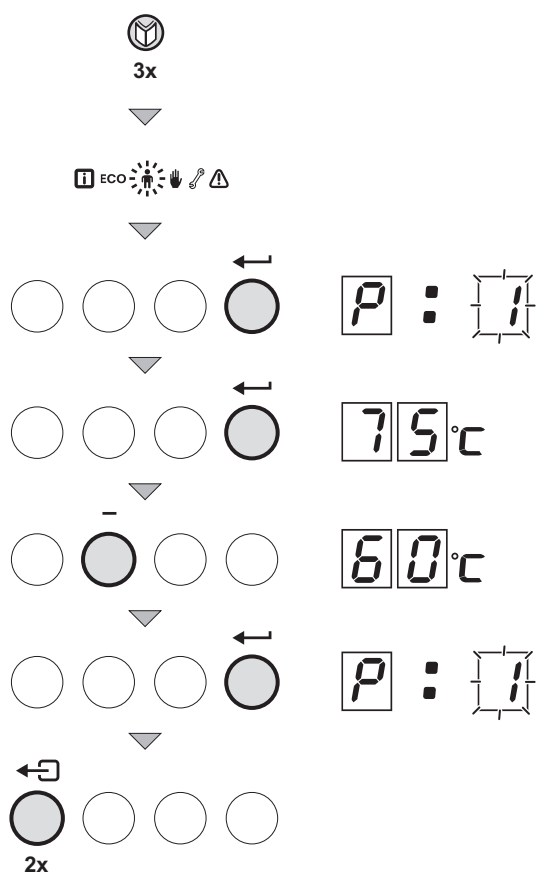


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4.3.6. Other settings

Parameter	Description	Adjustment range	Factory setting			
			MCR 24	MCR 24/28 MI	MCR 30/35 MI	MCR 34/39 MI
P1	Flow temperature	20 to 85 °C	75 °C	75 °C	75 °C	75 °C
P2	Domestic hot water temperature	40 to 65 °C	55 °C	55 °C	55 °C	55 °C
P3	Heating / DHW mode	0 = Heating deactivated () / DHW deactivated (1 = Heating activated () / DHW activated (2 = Heating activated () / DHW deactivated (3 = Heating deactivated () / DHW activated (2	1	1	1

Parameter	Description	Adjustment range	Factory setting			
			MCR 24	MCR 24/28 MI	MCR 30/35 MI	MCR 34/39 MI
P4	ECO mode	0 = Comfort mode	2	2	2	2
		1 = Energy-saving mode				
		2 = Management using a programmable thermostat				
P5	Anticipation resistance	0 = No anticipation resistance for the ON/OFF thermostat	0	0	0	0
		1 = Anticipation resistance for the ON/OFF thermostat				
P6	Display screen	0 = The screen stays off	2	2	2	2
		1 = The screen stays on				
		2 = The screen switches off automatically after 3 minutes				



To change these parameters, proceed as follows:

1. Press key several times until the symbol flashes on the menu bar.
2. Press the key to enter the "User" menu. The symbol appears.
3. Use the + and - keys to select to parameter to be changed.
4. Press the key to display the parameter value selected.
5. Use the + and - keys to change the parameter value.
6. To confirm the new value, press the key .
7. If necessary, set other parameters by selecting them using the + or - keys.
8. To exit the User menu, press the key 2 times.

i If no selections are made in the various modes for 10 minutes, the boiler resumes the settings prior to manipulation.

4.4 Installation shutdown

If the central heating system is not used for a long period, we recommend switching the boiler off.

1. Switch the boiler off.
2. Switch off the boiler electrical power supply.
3. Close the gas valve.
4. Ensure that the boiler and system are protected against frost damage.

4.5 Turning on the antifreeze function

We recommend setting the boiler thermostat to a value off 10°C if using a classic installation.

Define parameter **P4** as **1** (energy-saving mode), the heat retention function will be deactivated.

Installation and room antifreeze protection is guaranteed if you are absent.

If the temperature of the central heating water in the boiler falls too much, the integrated protection device switches itself on:

- ▶ If the water temperature is lower than 7°C, the circulating pump is activated.
- ▶ If the water temperature is lower than 3°C, the boiler is activated.
- ▶ When the water temperature is above 10 °C, the boiler is switched off and the circulation pump runs for another 15 minutes.



CAUTION

This function is a protection device for the boiler only, not for the system or building fabric.



CAUTION

If a room thermostat, connected via connectors 7 and 8, is activated, the boiler will operate permanently until it reaches the flow setting point.

5 Checking and maintenance


5.1 General instructions

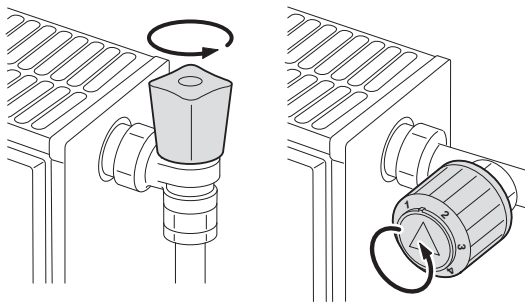


CAUTION

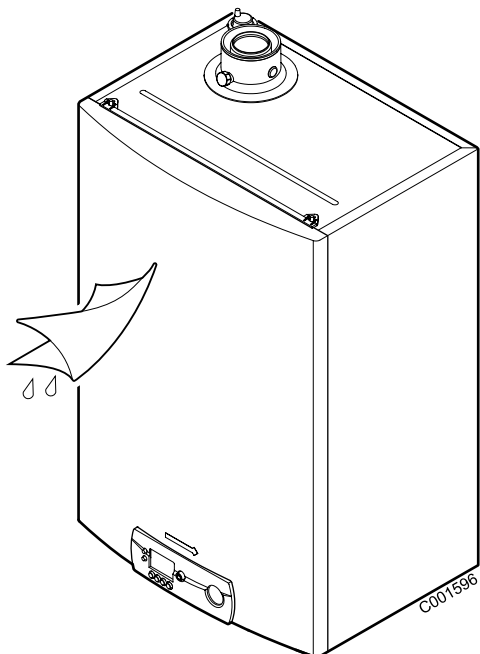
- ▶ An annual inspection is compulsory.
- ▶ We recommend taking out a maintenance contract.
- ▶ Maintenance operations must be done by a qualified engineer.
- ▶ Only original spare parts must be used.
- ▶ Make certain that the flues and chimneys are connected, in good condition and not blocked.
- ▶ Do 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.

5.2 Periodic checks

- ▶ Check the water pressure in the installation. If the water pressure is too low, add more water to the installation.  See chapter: "Filling the system", page 20.
- ▶ Carry out a visual check for the presence of any water leaks.
- ▶ Open and close the radiator valves several times a year (this prevents the valves from seizing up).



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- ▶ Clean the outside of the boiler using a damp cloth and a light detergent.



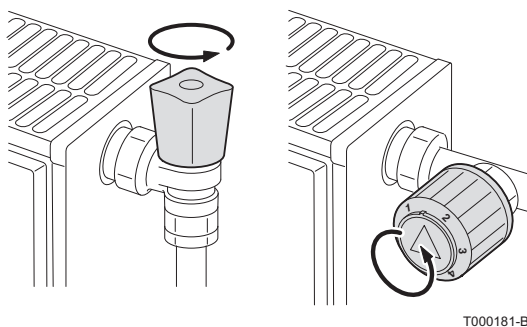
CAUTION

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

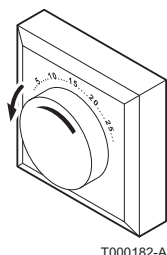
5.3 Filling the system

The water pressure in the boiler must be between 1,5 and 2 bar. Add water to the installation if necessary. To do this, proceed as follows:

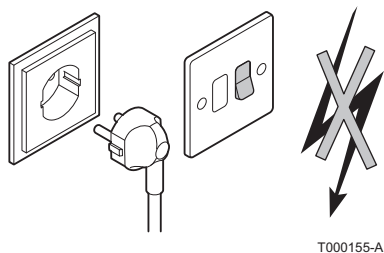
1. Open the valves on all radiators connected to the heating system.

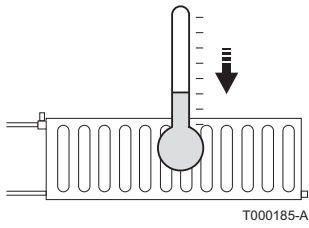


2. Set the room thermostat to as low a temperature as possible.

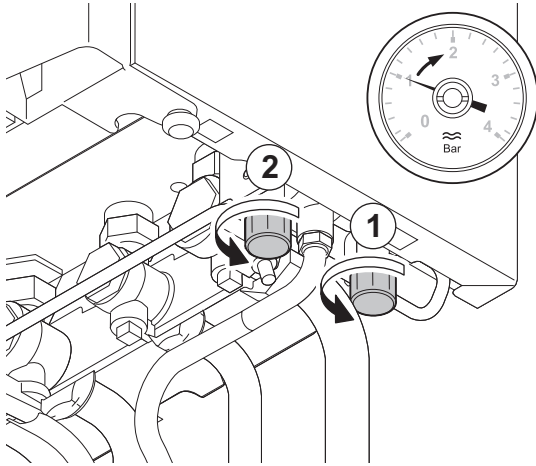


3. Switch off the boiler electrical power supply.

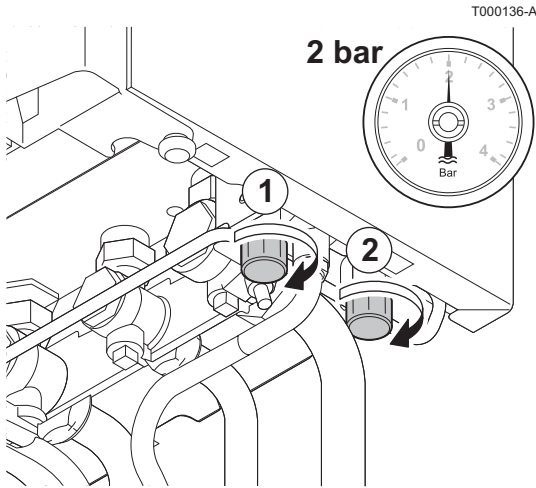




4. Wait until the temperature drops below 40°C and the radiators seem cold before filling the central heating system.



5. Open the disconnector valves.



6. Close the disconnector valves when the manometer indicates a pressure of 2 bar.

7. After filling the installation, switch the boiler on.

8. Set the room thermostat or the regulator.

9. Set the radiator valves.



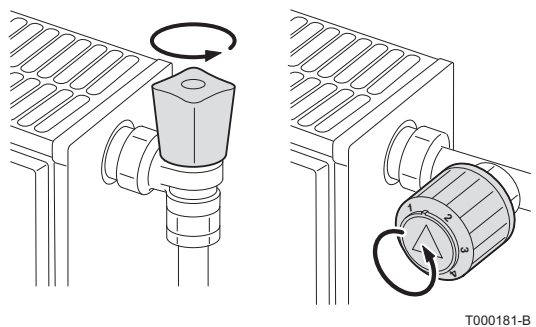
CAUTION

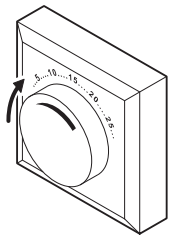
Filling and bleeding the installation 2 times a year should be sufficient to obtain an adequate hydraulic pressure. If it is often necessary to top up the installation with water, contact your fitter.

5.4 Bleeding the heating system

It is essential that you bleed any air in the calorifier, the conduits or the taps to prevent the annoying noises likely to be produced during heating or when tapping water. To do this, proceed as follows:

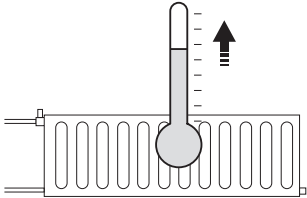
1. Open the valves on all radiators connected to the heating system.





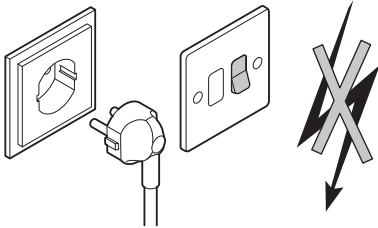
T000183-A

2. Set the room thermostat as high as possible.



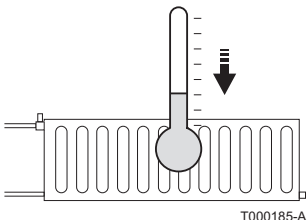
T000184-A

3. Wait until the radiators are hot.



T000155-A

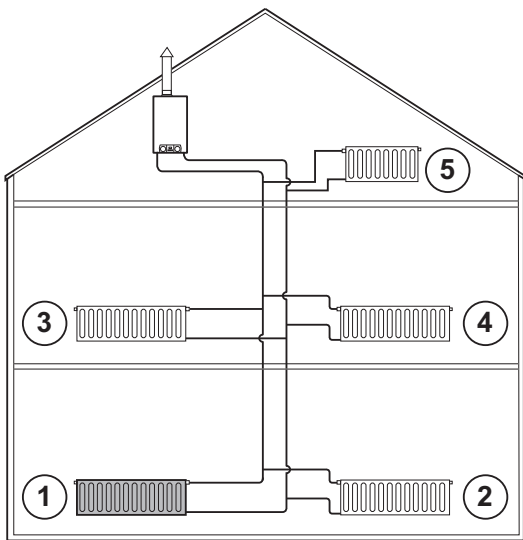
4. Switch the boiler off.



T000185-A

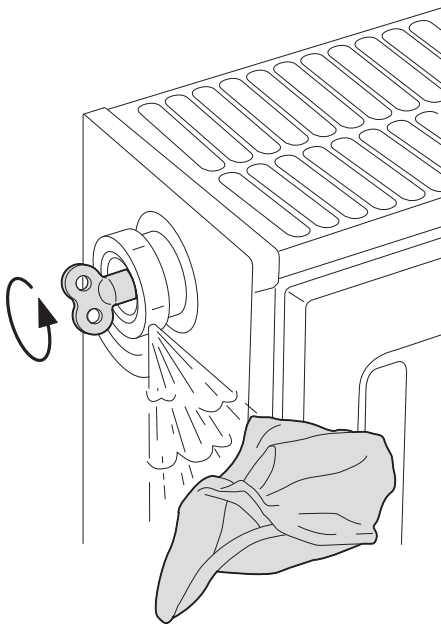
5. Wait around 10 minutes until the radiators are cold.

6. Bleed the radiators. Start with the lower floors.



T000216-A

- Open the bleed connection using the bleed key provided whilst keeping a rag pressed against the connection.

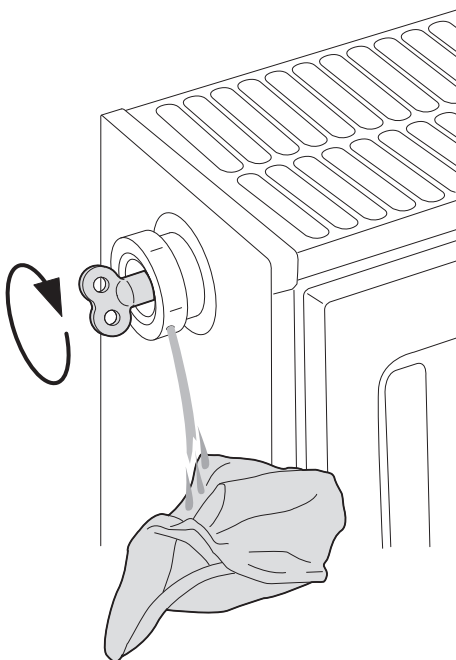


T000217-A

- Wait until water comes out of the bleed valve and then close the bleed connection.

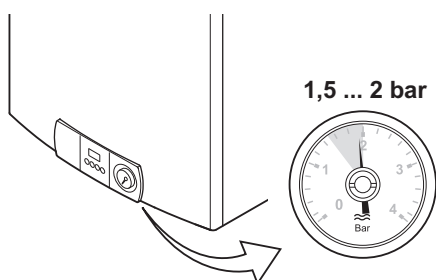
**CAUTION**

The water may still be hot.



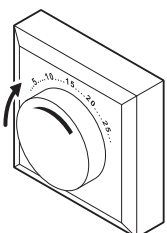
T000218-A

- After venting, check whether the pressure in the installation is still sufficient. Add water to the installation if necessary.
- Switch on the boiler. A vent cycle of a duration of around 3 minutes is carried out automatically.



T000228-A

- Set the room thermostat or the regulator.

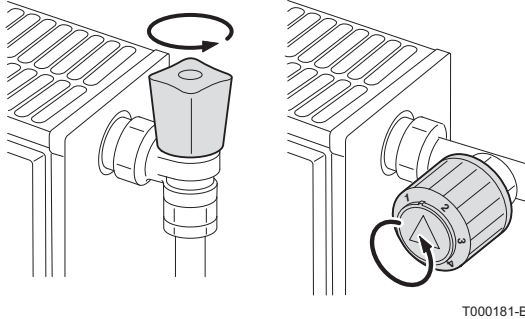


T000183-A

5.5 Draining the installation

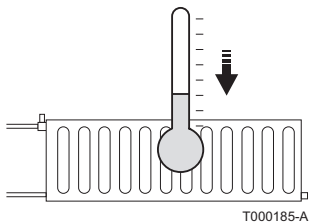
It may become necessary to empty the water from the heating system when the radiators have to be replaced, should there be a major water leak or a risk of frost. To do this, proceed as follows:

1. Open the valves on all radiators connected to the heating system.



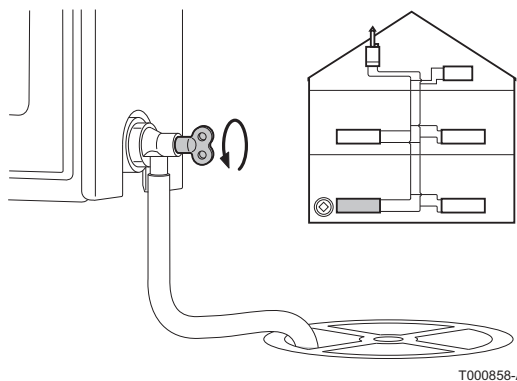
T000181-B

2. Switch off the boiler electrical power supply.
3. Wait around 10 minutes until the radiators are cold.



T000185-A

4. Connect an evacuation hose to the plug located at the lowest level. Place the end of the hose in a discharge sump or in a place where the water discharged from the valve can not do any damage.
5. Open the filling/draw-off valve on the heating system. Vent the heating installation.



T000858-A



WARNING

The water may still be hot.

6. When no more water comes out of the drainage plug, close the drainage valve.





6 Troubleshooting

6.1 Error codes







6.1.1.

If one of the breakdown codes opposite is displayed, check the hydraulic pressure:

Case 1: Pressure higher than or equal to 1 bar

- ▶ Press the RESET key to reset the appliance. Wait a few seconds.
 - If the display shows , the boiler is again operating normally.
 - If the display again shows ,  or , contact the installer.

Case 2: Pressure lower than 1 bar

- ▶ Top up the installation with water.  See chapter: "Filling the system", page 20.
- ▶ Press the RESET key to reset the appliance. Wait a few seconds.
 - If the display shows , the boiler is again operating normally.
 - If the display again shows , ,  or , contact the installer.

6.1.2.

6.1.3. Other error codes

If another error code is displayed, contact the installer.










6.1.4. Before contacting the installer

Before contacting the installer

Note the following information on the appliance's rating plate:

- ▶ Type of gas used
- ▶ Boiler type
- ▶ Manufacturing date
- ▶ Serial no. of the appliance

6.2 Incidents and solutions

Problem	Probable causes	Solution
There is no domestic hot water.	The boiler is not switched on.	<ul style="list-style-type: none"> ▶ Check that the boiler is switched on. ▶ Check the fuses and switches. ▶ Check that the gas valve is fully opened.
	The DHW mode is deactivated.	Activate the DHW mode.  See chapter: "Stopping domestic hot water production", page 16.
	The water pressure is too low (< 1 bar).	Top up the installation with water.  See chapter: "Filling the system", page 20.
	The energy-saving shower head is restricting the water flow.	Clean the shower head; replace if necessary.
The radiators are cold.	The heating temperature setting is too low.	Increase the value of parameter $P1$ or, if a room thermostat is connected, increase the temperature.  See chapter: "Changing the heating temperature", page 13.
	The heating mode is deactivated.	Activate the heating mode.  See chapter: "Stopping the central heating or activating the Summer mode", page 15.
	The radiator valves are closed.	Open the valves on all radiators connected to the heating system.
	The boiler is not switched on.	<ul style="list-style-type: none"> ▶ Check that the boiler is switched on. ▶ Check the fuses and switches. ▶ Check that the gas valve is fully opened.
	The water pressure is too low (< 1 bar).	Top up the installation with water.  See chapter: "Filling the system", page 20.
The boiler is not working.	The heating temperature setting is too low.	Increase the value of parameter $P1$ or, if a room thermostat is connected, increase the temperature.  See chapter: "Changing the heating temperature", page 13.
	The boiler is not switched on.	<ul style="list-style-type: none"> ▶ Check that the boiler is switched on. ▶ Check the fuses and switches. ▶ Check that the gas valve is fully opened.
	The water pressure is too low (< 1 bar).	Top up the installation with water.  See chapter: "Filling the system", page 20.
	An error code appears on the display.	<ul style="list-style-type: none"> ▶ Press the Reset button for 2 seconds. ▶ Correct the error if possible.  See chapter: "Error codes", page 25.
	The gas pressure is too low.	Open the gas valve.
The water pressure is too low (< 1 bar).	Not enough water in the installation.	Top up the installation with water.  See chapter: "Filling the system", page 20.
	Water leak.	Contact the fitter.
Significant variations in domestic hot water temperature.	Insufficient water supply.	Open the valve.

Problem	Probable causes	Solution
Clicking in the central heating pipes	The central heating pipe connections are too tight.	Contact the fitter.
	There is air in the heating pipes.	It is essential that you bleed any air in the calorifier, the conduits or the taps to prevent the annoying noises likely to be produced during heating or when tapping water.
	The water is circulating too quickly in the central heating system.	Contact the fitter.
Significant water leak under or close to the boiler	The boiler or central heating pipes are damaged.	Close the water supply. Contact the fitter.

7 Technical specifications

7.1 Technical specifications

Boiler type			MCR 24	MCR 24/28 MI	MCR 30/35 MI	MCR 34/39 MI
Heating mode	Nominal useful output 40/30 (min / max)	kW	6.3 / 25	6.3 / 25	6.6 / 31.3	6.8 / 35.5
	Nominal useful output 80/60 (min / max)	kW	5.5 / 23.6	5.5 / 23.6	5.7 / 29.5	5.9 / 33.3
	Nominal input power	kW	24	24/28	30/35	34/39
	Minimum input power	kW	5.8	5.8	6.1	6.3
Domestic hot water mode	Nominal useful output	kW	-	27.4	34.3	38.2
	Nominal input power	kW	24	24/28	30/35	34/39
	Minimum input power	kW	5.8	5.8	6.1	6.3
Gas flow rate at nominal output (15 °C - 1013 mbar)	Natural gas H (G20)	m ³ /h	2.4	2.4	3.5	3.9
	Natural gas L (G25)	m ³ /h	2.8	2.8	4.1	4.5
	Propane (G31)	Kg/h	1.9	1.9	2.7	3.0
LHV efficiency	100% of nominal output and average water temperature in the boiler of 70°C	%	98.3	98.3	98.2	98
	100% of nominal output and return temperature of 30°C	%	104.4	104.4	104.4	104.4
	30% of nominal output and return temperature of 30°C	%	108.7	108.7	109.7	110.5
HHV efficiency	100% of nominal output and average water temperature in the boiler of 70°C	%	88.5	88.5	88.4	88.2
	100% of nominal output and return temperature of 30°C	%	94	94	94	94
	30% of nominal output and return temperature of 30°C	%	97.9	97.9	98.8	99.5
Maximum temperature (Safety thermostat cut-off)		°C	110	110	110	110
Stand-by losses ($\Delta T = 30$ °C)		W	30	30	29	28
Losses through the outer casing		%	1.1	1.1	0.9	0.5
Water content		litres	1.7	1.8	2	2.2
Weight empty, without mounting frame, without front cover		kg	29	30.5	32	31.5
Heating circuit						
Nominal water flow ($\Delta T = 20$ K)		m ³ /h	1.03	1.03	1.29	1.47
Manometric height ($\Delta T = 20$ K)		mbar ⁽¹⁾	> 250	> 250	> 200	> 200
Flow temperature		°C	75/85	75/85	75	75
Maximum pressure		bar	3	3	3	3
Expansion vessel		litres	8	8	8	-
Initial pressure of the expansion vessel		bar	1	1	1	1
Minimum operating pressure		bar	0.8	0.8	0.8	0.8
Domestic hot water circuit						
Instruction set outlet temperature		°C	55	55	55	55
(1) 1 mbar = 100 Pa, 1 daPa = 1 mmWG						
(2) Cold water inlet temperature: 10 °C						

Boiler type		MCR 24	MCR 24/28 MI	MCR 30/35 MI	MCR 34/39 MI
Specific hot water flow ($\Delta T = 30 \text{ K}$) ⁽²⁾	litres per min.	-	14	16	19
Nominal max cold water pressure ⁽²⁾	bar	8	8	8	8
Minimum pressure for 11 l/min ⁽²⁾	bar	-	1.4	0.4	0.4
Water capacity	litres	-	40	40	40
Combustion products circuit					
Connection diameter	mm	80/125	80/125	80/125	80/125
Mass flue gas flow rate (min / max)	Kg/h	10/37	10/47	10/59	10/62
Flue gas temperature 80/60	°C	78	78	74	71.5
Pressure available at the flue gas nozzle	Pa ⁽¹⁾	50	100	100	140
Condensation water pH 50/30		1 - 7	1 - 7	1 - 7	1 - 7
Electricity characteristics					
Power supply voltage (50 Hz)	V	230	230	230	230
Power consumption	W	115	115	150	180
Electrical power circulating pump	W	90	90	125	135
Auxiliary electrical power (nominal output, ex heating pump)	W	25	25	25	25
Electrical protection index		IPX4D	IPX4D	IPX4D	IPX4D
(1) 1 mbar = 100 Pa, 1 daPa = 1 mmWG					
(2) Cold water inlet temperature: 10 °C					

8 Energy savings

8.1 Energy savings

This chapter contains:

- ▶ Energy-saving advice
- ▶ Advice on setting the room thermostat correctly

8.1.1. Energy-saving advice

- ▶ Keep the room in which the boiler is installed well ventilated. Do not block ventilation outlets. Install reflective panels behind the radiators to prevent heat losses.
- ▶ Do not cover the radiators. Do not hang curtains in front of the radiators.
- ▶ 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.

8.1.2. Room thermostat and settings

The room thermostat is available in the following versions:

- ▶ 2-wire ON/OFF thermostat
- ▶ Modulating thermostat
- ▶ Programmable room temperature thermostat

The type of thermostat and its settings have a considerable influence on energy consumption.

A few tips:

- ▶ A modulating thermostat, possibly in combination with thermostatic valve radiators, saves energy and offers considerable comfort. This combination allows you to set the temperature on each flow.
- ▶ Completely closing and opening thermostatic valve radiators causes undesirable temperature fluctuations. Open and close thermostatic valves in small steps.
- ▶ Lower the thermostat to around 20°C. This reduces heating costs and energy consumption.
- ▶ Lower the room thermostat when you air the rooms.

- ▶ If you are using an ON/OFF type thermostat, reduce the water temperature value ($\text{P} \text{!}$) in summer (e.g. 60°C in summer and 80°C in winter).
- ▶ When setting an hourly programmable thermostat, keep in mind the days you are absent or on vacation.

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 fitter 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 fitter'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.

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