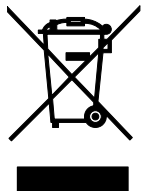


USER MANUAL**CE****EN**

Translation of the original instructions (in Italian)



It is compulsory to read this manual before proceeding with the boiler installation, use and maintenance operations.

This boiler is intended for production of hot technical water only:

- For heating of residential, commercial and industrial rooms.
- For heating of industrial process water.
- For indirect production of domestic hot water.

Any other use is forbidden.

General information

Dear Sirs,

thank You for choosing and buying one of our products. Please read these instructions carefully in order to properly install, operate, and maintain the product.

Following the boiler installation, the installer should advise the user about boiler operation and its safety devices.

The USER MANUAL and the INSTALLATION AND MAINTENANCE MANUAL are an integral and essential part of the product. They shall be supplied by the installer to the user who shall keep them carefully to consult them whenever necessary.

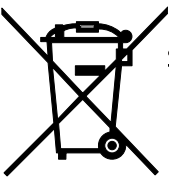
These documents shall be supplied together with the equipment in case the latter is sold or transferred to others.



WARNING

We inform users that:

- Boilers shall be installed by an authorised company under the requirements set forth by the prevailing rules, in full compliance with the prevailing regulations and standards.
- Anyone entrusting installation to an unqualified installer will be subject to administrative sanctions.
- Boilers must be maintained by qualified personnel only, under the requirements set forth by the prevailing rules.



WARNING

According to European Directive 2012/19/EU on waste electrical and electronic equipment (WEEE) the crossed-out wheeled bin symbol indicated on the boiler and on the package means that the boiler, at the time of its decommissioning, must be collected and disposed of separately from other waste (see *Decommissioning, disassembly and disposal*).



WARNING

This boiler is intended for production of hot technical water only:

- For heating of residential, commercial and industrial rooms.
- For heating of industrial process water.
- For indirect production of domestic hot water.

Any other use is forbidden.



DANGER

This boiler must be installed by qualified personnel.
The installation by unqualified personnel is forbidden.



DANGER

This boiler must be installed in compliance with the requirements of the technical standards and legislation in force relating to gas appliances, particularly with reference to ventilation of the premises.

Any installation that does not comply with the requirements of the technical standards and legislation in force is forbidden.



DANGER

This boiler must be installed in accordance with the manufacturer's instructions provided in the INSTALLATION AND MAINTENANCE MANUAL; incorrect installation may cause damage to persons, animals and/or property, for which the manufacturer cannot be held responsible.

**WARNING**

This boiler must be installed inside the building or in a partially sheltered place.
A partially sheltered place is a place which is not directly exposed to atmospheric agents.
Any installation in a place that is not partially sheltered is forbidden.

**DANGER**

This boiler must be correctly and safely connected to an electrical system compliant with the existing technical standards.
Any incorrect and unsafe connection to the electrical system is forbidden.
It is forbidden to connect the boiler to an electrical system lacking a differential switch to protect the boiler power line.
Any connection to an electrical system lacking a proper grounding system is forbidden.

**WARNING**

The boiler is supplied with a power cable featuring two poles + GND, already connected to the electronic board and it is provided with a safety clamp.
This boiler must be connected to a 230V power supply network, as indicated on the label.

**DANGER**

This boiler must be connected to a gas distribution system which complies with the existing technical standards.
Check the gas system state of conservation before installing the boiler.
Any connection to a gas system which does not comply with the existing technical standards is forbidden.
When connecting the boiler to gas supply network, it is compulsory to install an appropriately sized gasket made from suitable material.
The boiler gas inlet coupling is not suitable for hemp, teflon tape or similarly made gaskets.
After connecting the boiler, check the connection for tightness.
Once gas is in the pipes, leak test by a naked flame is forbidden; use specific products available on the market.

**DANGER**

With gas fired boilers, take the following measures if you smell gas:

- Do not turn on or off electric switches and do not turn on electric appliances.
- Do not ignite flames and do not smoke.
- Close the main gas cock.
- Open doors and windows.
- Contact a Service Centre, a qualified installer or the gas supply company.

Never use a flame to locate a gas leak.

The boiler is designed for installation in the countries indicated on the technical data plate applied both to the package and to the boiler itself: installation in any other country may be a source of danger for people, animals and/or property.
The manufacturer will bear no contractual and tortious liability for failure to comply with all the instructions above.



WARNING

Before installing the boiler, check that the technical data correspond to the requirements for its correct use in the system. Check that the boiler is intact and it has not been damaged during transport and handling; do not install equipment which is clearly damaged and/or faulty. For correct installation of the appliance, please refer to **INSTALLATION AND MAINTENANCE MANUAL**.

Damage and/or injury caused by incorrect installation or use and/or damage and/or injury due to non-observance of the manufacturer's instructions shall release the manufacturer from any and all contractual and extra-contractual liability.

Do not obstruct the air intake openings.

Only original accessories or optional kits (including the electric ones) are to be installed.

Properly dispose of the packaging as all the materials can be recycled. The packaging must therefore be sent to specific waste management sites.

After removing the packaging, make sure that its elements (clips, plastic bags, foam polystyrene etc.) are not left within the reach of children as they are potential hazard sources.

In the event of failure and/or faulty functioning, switch off the boiler. Do not attempt to make repairs: contact qualified technicians.

Original parts must be used for all repairs to the boiler.

Non-observance of the above requirements may affect the safety of the boilers and endanger people, animals and/or property.

The appliance can be used by children aged no less than 8 and by persons with reduced physical, sensory or mental capabilities, or who do not have proper experience and knowledge, provided that they are supervised or they have been instructed on safe use of the appliance and have understood the inherent risks. Do not allow children to play with the appliance. Cleaning and maintenance intended to be carried out by the user shall not be performed by unattended children.



WARNING

An easily accessible switch with contact separation in all poles must be installed upstream of the product, directly connected to the power supply terminals to allow complete disconnection under overvoltage category III conditions and to ensure fully safe maintenance operations.

If the power cable is damaged, it must be replaced by Fondital or its technical service department or a similarly qualified person in order to prevent any risk.



WARNING

The appliance is designed to have a DHW working pressure of 0.6 MPa (6 bar) and a DHW inlet pressure of 0.05 MPa - 0.6 MPa (0.5 bar - 6 bar).



DANGER

Before starting the boiler, and each time it is at a standstill for several days, make sure the trap is full of water.

If the trap is empty, fill it by pouring water into the boiler through the flue gas venting duct.



WARNING

The boiler must be serviced periodically as indicated in the relevant section of this manual.

Appropriate boiler maintenance ensures efficient operation, environment preservation, and safety for people, animals and objects.

Incorrect and irregular maintenance can be a source of danger for people, animals and property.

The user is strongly advised to have the system serviced and repaired by qualified personnel, satisfying all prevailing law requirements, and trained to properly carry out these operations.

In the event of long periods of inactivity of the boiler, disconnect it from the electrical power mains and close the gas cock.



WARNING

With the electrical power disconnected and the gas cock closed, the device's electrical anti-freeze function does not work.

Should there be a risk of freezing, add antifreeze: it is not advisable to drain the system as this may result in damage; use specific anti-freeze products suitable for multi-metal heating systems.



DANGER

Damage and/or injury caused by incorrect installation and/or incorrect use and/or unauthorized changes to the boiler and/or non-observance of the manufacturer's instructions and/or of the relative standards/laws in force in the country of installation, shall release the manufacturer from any and all liability.



CAUTION

The user may only access parts of the boiler that can be reached without using special equipment or tools. The user is not authorised to remove the boiler casing or to operate on any internal parts.

No one, including qualified personnel, is authorised to modify the boiler.

The manufacturer shall not be held responsible in case of damage to people, animals, or property due to failure to follow the above mentioned instructions.



The manufacturer declares that this product complies with the essential requirements of the applicable European directives and regulations in force.

The declaration of conformity can be requested from the manufacturer.

We hereby inform you that certain models, versions and/or accessories relevant to the products this manual refers to, might not be available in some countries.

Therefore, it is recommended to contact the manufacturer or the importer in order to get the necessary information about the actual availability of such models, versions and/or accessories.

The manufacturer reserves the right to modify the products and/or its components as deemed necessary, in any moment and without prior notice.

This instruction manual is available in two languages, Italian and English, without prejudice to the prevalence of Italian language in case of differences in translation and/or dispute on construction of the text.

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1.1	<i>Control panel</i>	8
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Fig. 1 Control panel	8
Fig. 2 Filler cock	14

1. Instructions for the user

1.1 Control panel

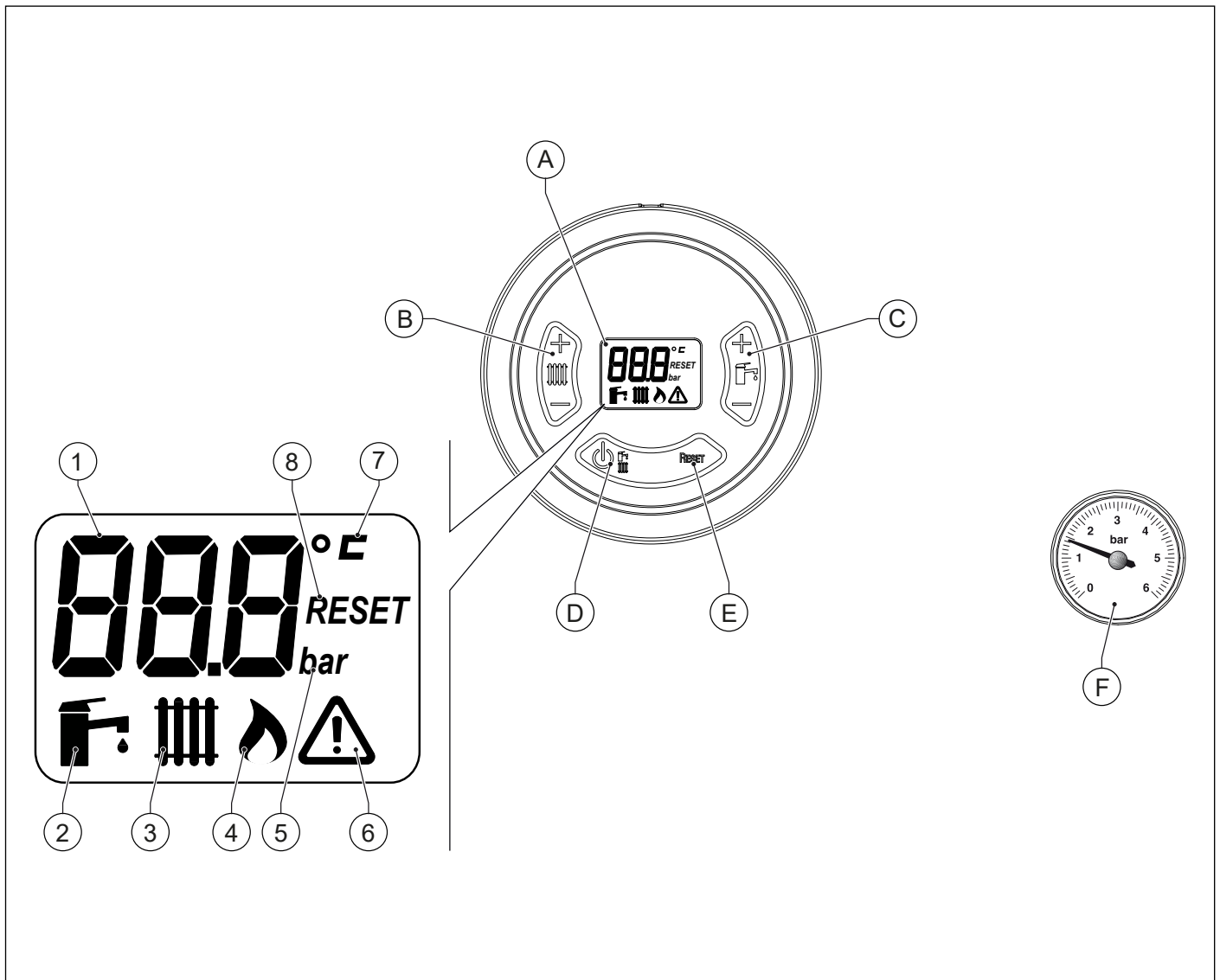


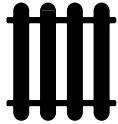







Fig. 1 Control panel

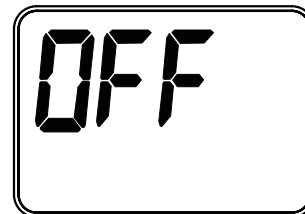
- A. LCD display.
- B. Heating water temperature setting (+/- CH).
- C. DHW temperature setting and parameter value setting (+/- DHW).
- D. Select operating status and confirm parameters.
- E. Alarm reset and information menu access (long press) (RESET).
- F. Heating system water pressure gauge.

Ref.	Symbol	Description	Steady on	Flashing
1		Alphanumeric indicator	Temperature, parameter values and fault indication.	Not used.
2		DHW indicator	DHW function activated.	Displaying of the DHW temperature set-point or DHW function in progress.
3		Central heating indicator	CH function activated.	Displaying of the heating temperature set-point or heating function in progress.
4		Flame lighting indicator	Lit flame indication.	Not used.
5		Bar symbol	Symbol indicating system pressure.	Not used.
6		WARNING symbol	It turns on in case of operating malfunction or boiler shut-down.	Not used.
7		Symbol of centigrade degrees °C	It turns on when temperature values are displayed.	Not used.
8		RESET indicator	In case of boiler malfunction or shut-down, it indicates that the boiler can be reset by pressing RESET.	Not used.

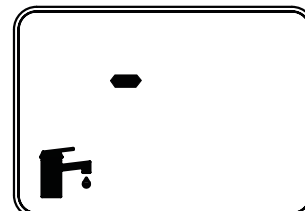
1.2 Interpreting boiler status from display indications

1.2.1 Normal operation

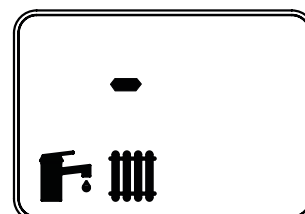
Boiler OFF



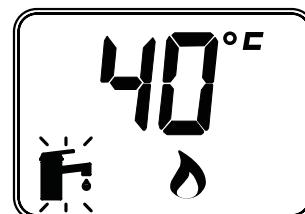
Boiler in SUMMER mode
No active function



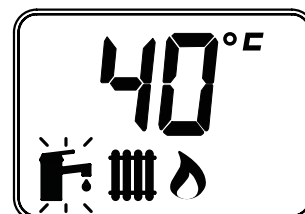
Boiler in WINTER mode
No active function



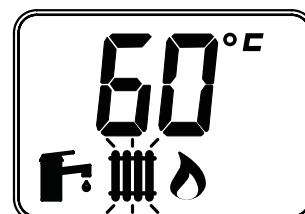
Boiler in SUMMER mode
Domestic hot water withdrawal
DHW temperature displayed
The DHW symbol (tap) flashes



Boiler in WINTER mode
Domestic hot water withdrawal
DHW temperature displayed
The DHW symbol (tap) flashes



Boiler in WINTER mode
CH function active
Flow temperature displayed
The DHW symbol (tap) flashes



1.2.2 Malfunction

To identify any malfunctions, refer to paragraph *Troubleshooting* on page 18.

1.3 Boiler operation

1.3.1 Switching on and switching off



DANGER

It is presumed that the boiler has been installed by a qualified installer, it has been commissioned and is ready to operate correctly.

- Open the gas shut-off cock.
- Turn the master switch installed ahead of the boiler to ON.
- The display turns on and indicates the function currently active (see *Interpreting boiler status from display indications* on page 10).
- Select the boiler operating mode: OFF/SUMMER/WINTER (see *Selecting the operating mode* on page 11).
- Set the desired temperature value for heating water (see *CH function* on page 11).
- Set the desired temperature value for domestic hot water (see *DHW function* on page 12).
- Set the desired temperature on the ambient thermostat in the building (if installed).



CAUTION

Should the boiler be left inactive for a long time, particularly when boiler is propane-fired, ignition might be difficult. Before starting the boiler switch on another gas powered device (e.g. kitchen range). Beware that even by following this procedure, the boiler might still experience some starting difficulties and shut down once or twice. Press the "RESET" button to restore boiler operation.

1.3.2 Selecting the operating mode

To select the boiler operating mode press key **D** Operating mode selection.

Whenever the key is pressed, the "SUMMER", "WINTER", "OFF" modes are enabled in sequence.

"SUMMER" operating status

When the "SUMMER" mode is enabled, only the DHW production function is active.

"WINTER" operating status

When the "WINTER" mode is enabled, both DHW and CH functions are active.

"OFF" operating status

When the "OFF" mode is enabled, no function is active.


1.3.3 CH function

To set the water temperature for central heating, press the **+/- CH** buttons.

Heating temperature adjustment range depends on the selected operating range.:

- standard range: from 20°C to 78°C (pressing **+/- CH**);
- reduced range: from 20°C to 45°C (pressing **+/- CH**).

Operating range selection must be carried out by the installer or a service centre, see paragraph *Selecting the operating range in heating mode* in INSTALLATION AND MAINTENANCE MANUAL.

During temperature setting, the heating symbol  flashes on the display and the heating water temperature you are setting is displayed.

When the heating system requests heat, the heating symbol  flashes and the current heating flow water temperature is displayed.

The waiting time between one boiler ignition and the following one, used to prevent boiler frequent turning on and off, ranges between 0 and 60 minutes (default value: 3), and can be edited with parameter **P30**.

Should flow water temperature fall below the set value by a value between 10°C and 25°C (default value 25°C, to be edited with parameter **P31**), the waiting time is reset and the boiler re-ignites.


The burner symbol  only shows while the burner is operating.

1.3.4 DHW function

DHW production function is enabled in one of the following operating modes: SUMMER or WINTER.

Such function has always priority over CH water supply.

To set the domestic hot water temperature, press +/- DHW buttons.

During temperature setting, the DHW symbol  on the display flashes and the domestic hot water temperature you are setting is displayed.

DHW temperature may be set within a range from 30°C to 60°C.



CAUTION

A flow limiter is installed within the boiler, which limits DHW output flow rate.

This limit value is: 10 litres per minute for model KC 24, 13 litres per minute for model KC 28.

1.3.5 Freeze protection function

This boiler is fitted with a freeze protection system, which works when the following functions are activated: OFF/WINTER/SUMMER.



DANGER

The freeze protection function only protects the boiler, not the whole heating system.

The central heating system can be effectively protected against icing by using specific anti-freeze products that are suitable for multi-metal systems.



CAUTION

Do not use anti-freeze products for car engines, and check the effectiveness of the product used over time.

In case burner cannot be ignited due to the lack of gas, the freeze protection functions are anyway enabled through the circulation pumps.

1.3.5.1 Flow freeze protection function

When the heating water temperature sensor detects a water temperature of +5 °C, the boiler switches on and stays on at its minimum heat output until the temperature reaches +35 °C or 20 minutes have elapsed.

The pump continues to operate even if the boiler shuts down.

1.3.6 Anti-seize function

If the boiler remains inactive and connected to the power mains, the circulation pump and the deviating valve (if any) will be shortly enabled every 24 hours so as to avoid any shut-down.

1.3.7 Timed post-circulation function

After each heating, DHW or freeze protection request, the pump continues to be powered for a short period of time, which can be edited with parameters **P01** and **P02**.

If a new central heating, DHW or freeze protection request is received during this period, the post-circulation function is cancelled in order to fulfil the request.

1.3.8 Timed post-ventilation function

After each heating, DHW or freeze protection request, the fan continues to work for 20 seconds, which can be edited with parameter **P03**.

If a new operating request is received during this period, the post-ventilation function is cancelled in order to fulfil the request.


1.3.9 Operation with external probe (optional)

Boiler can be connected to a probe measuring the external temperature (optional - not compulsory, supplied by the manufacturer) Once the external temperature value is known, the boiler will automatically adjust the heating water temperature: increasing it as the external temperature decreases and decreasing it as the external temperature increases. This will both improve room comfort and reduce fuel consumption. Standard and reduced range max. temperature values will nevertheless be respected.

This boiler operating mode is called "sliding temperature operation".

Heating water temperature varies based on a programme written inside boiler electronic microprocessor.

With an external sensor, the +/- CH buttons no longer set the heating water temperature, and become buttons for changing the fictitious ambient temperature, namely the desired theoretical temperature in the rooms to be heated.

During temperature setting, the symbol  flashes on the display and the value being set is shown.

For optimal curve adjustment, a position close to +20 °C is recommended.

For further details on sliding temperature operation, refer to paragraph *Installation of the (optional) external probe and sliding temperature operation* in INSTALLATION AND MAINTENANCE MANUAL.



CAUTION

Only original external temperature probes supplied by the manufacturer must be used.

The use of non-original external probes, not supplied by the manufacturer, may affect the operation of the external probe itself and of the boiler.

1.3.10 Operation with (optional) remote control

The boiler can also be connected to a Remote Control (optional - not compulsory, supplied by the manufacturer) so as to manage several boiler parameters, such as:

- Boiler status selection.
- Ambient temperature selection.
- CH system water temperature selection.
- DHW temperature selection.
- CH system activation time programming.
- Boiler diagnostics display.
- Boiler reset and other parameters.

To connect the Remote Control, see paragraph *Installation and operation with Open Therm Remote Control (optional)* in INSTALLATION AND MAINTENANCE MANUAL.



CAUTION

Only use original Remote Controls supplied by the manufacturer.

The use of non-original remote controls, not supplied by the manufacturer, may affect Remote Control and boiler operation.

1.4 Boiler shut-down

The boiler shuts down automatically if a malfunction occurs.

To determine the possible causes of malfunction, see *Troubleshooting* on page 18.

Below is a list of shut-down types and the procedure to follow in each case.

1.4.1 Burner shut-down

Fault code **E01** is displayed flashing on the display in the event of burner shut-down due to missing flame.

If this happens, proceed as follows:

- check that the gas cock is open and light a kitchen gas ring for example to check the gas supply;
- after checking if the fuel is available, press **RESET** to restore burner operation: if, after two starting attempts, the boiler still fails to start and enters the shut-down mode again, contact a service centre or qualified personnel for maintenance.



WARNING

If the burner shuts down frequently, there is a recurring malfunction, so contact a service centre or a qualified service engineer to carry out the maintenance.

1.4.2 Shut-down due to overheating

Fault code **E02** is shown on the LCD display in the event of flow water temperature overheating. Contact a service centre or a qualified service engineer to carry out the maintenance.

1.4.3 Shut-down due to incorrect air/flue gas system draught

The boiler is equipped with a safety device for flue gas exhaustion check.

Should an air intake/flue gas venting system malfunction occur, the control device will shut down the boiler by interrupting the gas supply to the boiler and the LCD will display the code **E03**.

In this case, contact a Service Centre or a qualified service engineer to carry out the maintenance.

1.4.4 Shut-down due to low water pressure

Fault code **E04** is displayed on the LCD display in the event of shut-down triggered by the water pressure switch.

Fill the system by working on filler cock (A) (see Fig. 2 Filler cock).

Water pressure must be $0.10 \div 0.13$ MPa ($1.0 \div 1.3$ bar) while the boiler is cold.

In order to restore water pressure, proceed as follows:

- Turn the filler cock anticlockwise to allow water to enter the boiler;
- Keep the tap handle open until the pressure gauge shows that a pressure value of $0.10 \div 0.13$ MPa ($1.0 \div 1.3$ bar) has been reached;
- Turn cock clockwise to close it.

Should the boiler shut down frequently, contact qualified personnel or an authorised service centre for maintenance.



DANGER

Make sure you close filler cock (A) carefully after filling procedure is completed.

If you do not, when the pressure increases, the safety valve may activate and discharge water.

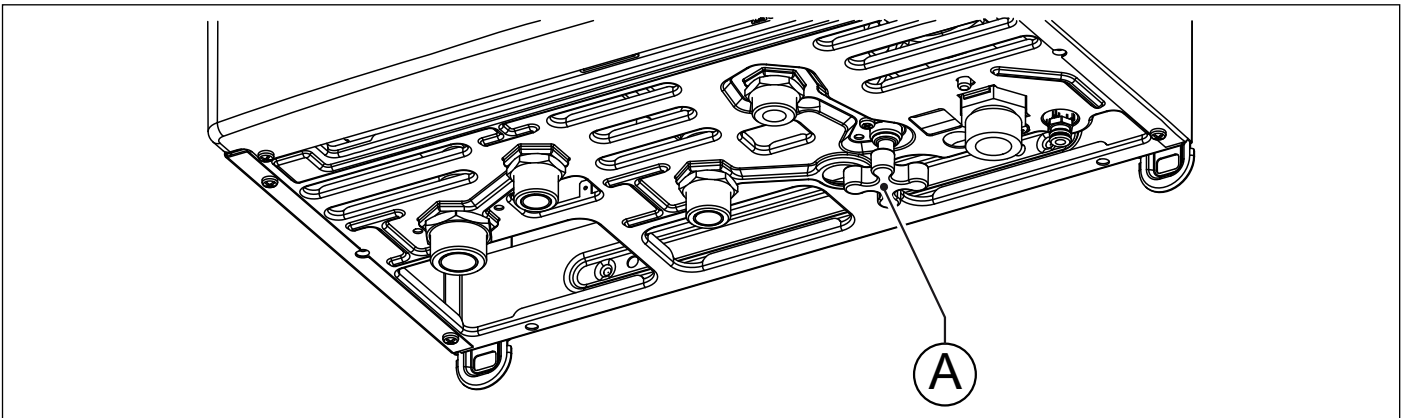


Fig. 2 Filler cock

1.4.5 Alarm due to temperature probe malfunction

The following fault codes are shown on the display in the event of burner shut-down due to a temperature probe fault:

- **E05** for the CH probe; in this case the boiler does not work.
- **E06** in this case, the boiler functions in central heating mode only, and the DHW function is disabled.
- **E15** for the return probe; in this case the boiler does not work.



WARNING

In any case, contact a service centre or qualified personnel for maintenance.

1.4.6 Alarm due to (optional) external temperature probe malfunction

In case of external temperature probe failure, boiler will continue to operate, but the "sliding temperature" operation will be disabled. The temperature shown on the display corresponds to the heating water flow temperature setpoint and not to the set ambient temperature setpoint; the boiler display shows the code **E23**.

Contact a service centre or a qualified service engineer for maintenance.

1.4.7 Alarm due to (optional) Remote Control connection malfunction

The boiler recognises whether or not there is a Remote Control (optional, not compulsory).

If the boiler does not receive information from the Remote Control after the Remote Control itself is connected, the boiler attempts to re-establish communication for 60 seconds, after which the fault code **E31** is shown on the remote control display.

The boiler will continue to operate according to the settings on the touch screen and ignore the Remote Control settings.



WARNING

Contact a service centre or a qualified service engineer to carry out the maintenance.

The remote control can indicate faults or shut-down conditions and can also restore boiler operation after shut-down up to a maximum of 3 times in a 24 hour period.

If the maximum number of attempts is reached, fault code **E99** is shown on the boiler display.

To reset error **E99**, disconnect and reconnect the boiler from the mains power.

1.4.8 Shut-down for fan malfunction

The fan operation is constantly monitored and in case of malfunction the burner goes off; the code **E13** flashes on the display.

This mode is maintained until the fan recovers normal working parameters.

If the boiler does not start and remains in this mode, contact a service centre or a qualified service engineer to carry out the maintenance.

1.5 Information menu

The control panel features an information menu that allows displaying some boiler parameters.

To access the information menu, press key **D** Operating mode selection for 3 seconds.

The control panel displays the parameter number and its value alternatively every 3 seconds.

To scroll through the various parameters press **HEATING +/-**.

To quit the information menu, press key **D** Operating mode selection again for 3 seconds.

Parameter	Description	m.u.	Notes
n00	Heating flow temperature	°C	-
n02	DHW temperature	°C	-
n03	Heating return temperature	°C	-
n05	External probe temperature	°C	Only if the external temperature probe (optional) is connected and activated (parameter P04 = 1)
n06	Fan speed set-point	rpm/100	-
n07	Fan speed detected	rpm/100	-
n10	Flame ionisation current	µA	-
n11	PWM pump speed percentage	% duty	Only with PWM pump (parameter U10 = 1)
n12 – n16	List of last 5 errors	-	-
n17	Heating temperature set-point	°C	-
n18	DHW temperature set-point	°C	-
n19	Days remaining before the maintenance warning is displayed (SEr)	-	Only if the function is enabled (parameter U45–TSP100 = 1)

To delete the list of last 5 errors (parameters n12 – n16) go to parameter n12 (first error in the list) and press and hold keys **+ CH** and **+ DHW** for 3 seconds.

The word **"do"** will be displayed to confirm deletion from the list.

1.6 Maintenance



CAUTION

The boiler must be serviced periodically as indicated in the relevant section of **INSTALLATION AND MAINTENANCE MANUAL**.

Appropriate boiler maintenance ensures efficient operation, environment preservation, and safety for people, animals and objects.

Boilers must be maintained by qualified personnel only, under the requirements set forth by the prevailing rules.

1.7 Notes for the user



WARNING

The user may only clean the external casing of the boiler, employing common household products.

Do not use water!



CAUTION

The user may only access parts of the boiler that can be reached without using special equipment or tools. The user is not authorised to remove the boiler casing or to operate on any internal parts.

No one, including qualified personnel, is authorised to modify the boiler.

The manufacturer shall not be held responsible in case of damage to people, animals, or property due to failure to follow the above mentioned instructions.



CAUTION

The condensate drain must not be plugged or modified.

2. Decommissioning, disassembly and disposal



WARNING

Gas boilers are electrical and electronic equipment (EEE) and when decommissioned they become waste electrical and electronic equipment (WEEE), therefore, they must be disposed of in compliance with the legislation in force in the country of installation.

Gas boilers are classified as domestic appliances and must be disposed of in the same way as washing machines, dish washers and tumble dryers (R4 WEEE waste).

The disassembly of gas boilers and their disposal is therefore forbidden through channels not specifically provided for by law.

Decommissioning, disassembly and disposal operations must be performed with boiler cold and disconnected from gas and power mains.



WARNING

The user is not authorised to carry out such operations.

3. Malfunctions, possible causes and solutions

3.1 Troubleshooting

BOILER STATUS	MALFUNCTION	PROBABLE CAUSE	User's tasks	Qualified personnel's tasks	
E01*	Burner does not ignite.	Gas supply failure.	Check gas supply. Check gas supply cock opening or gas network safety valve intervention.		
		Gas valve is disconnected.	Contact qualified personnel	Reconnect it.	
		Gas valve is faulty.	Contact qualified personnel	Replace it.	
		The electronic board is faulty.	Contact qualified personnel	Replace it.	
	Burner does not ignite: no spark.	Ignition electrode is faulty.	Contact qualified personnel	Replace the electrode.	
		Electronic board does not ignite. It is faulty.	Contact qualified personnel	Replace electronic board.	
	Burner ignites for a few seconds and goes off.	Electronic board does not detect flame: inverted phase and neutral.	Contact qualified personnel	Verify correct neutral and phase connection.	
		Detection electrode cable is interrupted.	Contact qualified personnel	Reconnect or replace cable.	
		Detection electrode is faulty.	Contact qualified personnel	Replace the electrode.	
		Electronic board does not detect flame: it is faulty.	Contact qualified personnel	Replace electronic board.	
Ignition heat input setting is too low.		Contact qualified personnel	Increase it		
Minimum heat input is not set correctly.		Contact qualified personnel	Check burner setting.		
E02*	Flow temperature exceeded the max. allowed value. The flow thermostat has triggered.	Circulation pump is faulty.	Contact qualified personnel	Replace it.	
		Circulation pump is seized.	Contact qualified personnel	Check pump electrical connection.	
E03*	Flue thermostat triggering.	Poor flue draught.	Contact qualified personnel	Check air intake or flue gas venting system and vent grilles in the boiler room.	
		Flue vent/air intake duct is obstructed.	Contact qualified personnel	Check for any duct obstruction, and eliminate it.	
		Flue gas thermostat is faulty.	Contact qualified personnel	Replace it.	
E04**	CH system water pressure is low.	The system has been recently bled.	Fill the system (see section Boiler shut-down). If the error occurs again several times, contact a qualified Service Centre or qualified personnel.		
		The system is leaking.	Check system.		
		Pressure transducer is disconnected.	Contact qualified personnel	Reconnect it.	
		Pressure transducer is faulty.	Contact qualified personnel	Replace it.	
E05**	Flow probe failure.	Flow probe is electrically disconnected.	Contact qualified personnel	Reconnect it.	
		Flow probe faulty.	Contact qualified personnel	Replace it.	
E06**	DHW probe failure.	DHW probe is electrically disconnected.	Contact qualified personnel	Reconnect it.	
		DHW probe faulty.	Contact qualified personnel	Replace it.	

BOILER STA-TUS	MALFUNCTION	PROBABLE CAUSE	User's tasks	Qualified personnel's tasks
E13*	Fan failure.	Fan disconnected.	Contact qualified personnel	Reconnect it.
		Fan faulty.	Contact qualified personnel	Replace it.
E15**	Return probe failure.	Probe is disconnected.	Contact qualified personnel	Reconnect it.
		Probe is faulty.	Contact qualified personnel	Replace it.
E22***	EEPROM malfunction on board.	The board is faulty.	Contact qualified personnel	Replace it.
E23**	External probe fault (only with connected external probe).	Probe is disconnected.	Contact qualified personnel	Reconnect it.
		Probe is faulty.	Contact qualified personnel	Replace it.
E25**	Flow probe and DHW probe < 1.5 °C.	The boiler has remained off.	Contact qualified personnel	Check the system for risk of freezing.
E26***	Gas valve fault.	Gas valve is disconnected.	Contact qualified personnel	Reconnect it.
		Gas valve is faulty.	Contact qualified personnel	Replace it.
		The electronic board is faulty.	Contact qualified personnel	Replace it.
E31**	Remote Control connection failure (only shown on Remote Control display).	The Remote Control is not connected to boiler board.	Contact qualified personnel	Reconnect it.
		Remote control faulty.	Contact qualified personnel	Replace it.
		Boiler board is faulty.	Contact qualified personnel	Replace it.
E60***	Boiler does not work.	Wrong gas valve opening sequence.	Contact qualified personnel	Check the gas valve and its wiring.
E61***	Boiler does not work.	The gas valve is not correctly connected.	Contact qualified personnel	Check the gas valve and its wiring.
E62***	Boiler does not work.	The gas valve is not correctly working.	Contact qualified personnel	Check the gas valve and its wiring.
E77**	Wrong supply voltage.	Electrical system malfunction.	Contact qualified personnel	Check the electrical system.
E78*	Flow temperature increases too quickly.	Any cut-off valves are closed.	Contact qualified personnel	Check system.
		Pump is seized.	Contact qualified personnel	Unseize the pump.
		Pump is faulty.	Contact qualified personnel	Replace it.
		Low water flow rate.	Contact qualified personnel	Check system pressure or for any exchanger clogging.
		Air present inside heating system.	Contact qualified personnel	Bleed the air from the boiler by opening the jollies on the exchanger and pump.
		Faulty or clogged by-pass.	Contact qualified personnel	Check the by-pass.
E85**	Flow or return probe > 105°C.	No circulation in the boiler.	Contact qualified personnel	Check the pump or the by-pass.
		Flow or return probe incorrectly calibrated or faulty.	Contact qualified personnel	Replace the probe.
E91***	Incompatible EEPROM KEY.	The board is faulty.	Contact qualified personnel	Replace it.
E92***	EEPROM KEY not present or not working.	The board is faulty.	Contact qualified personnel	Replace it.
E93***	EEPROM malfunction on board.	The board is faulty.	Contact qualified personnel	Replace it.

BOILER STATUS	MALFUNCTION	PROBABLE CAUSE	User's tasks	Qualified personnel's tasks
E92***	EEPROM KEY not present or not working.	The board is faulty.	Contact qualified personnel	Replace it.
E93***	EEPROM malfunction on board.	The board is faulty.	Contact qualified personnel	Replace it.
E99**	The max. number of resets from the Remote Control or interface has been reached.	The user has reached the max. number of error reset attempts from the Remote Control or interface.	Disconnect and reconnect power supply.	
E159**	Presence of parasitic flame.	Boiler board malfunction.	Contact qualified personnel	Check boiler board.
E160*	The maximum number of ignition attempts has been exceeded.	See indications for error E01.	See indications for error E01.	See indications for error E01.
E162**	Flow probe > 90 °C.	Water does not circulate inside heating system.	Contact qualified personnel	Check system status.
		Pump is seized.	Contact qualified personnel	Unseize the pump.
		Pump is faulty.	Contact qualified personnel	Replace it.
		Air present inside heating system.	Contact qualified personnel	Bleed the air from the boiler by opening the jollies on the exchanger and pump.
		Faulty or clogged by-pass.	Contact qualified personnel	Check the by-pass.
		Flow probe faulty.	Contact qualified personnel	Replace it.
E186**	Flue gas vent clogged.	The flue gas intake/vent system is clogged and prevents proper air/flue gas passage.	Contact qualified personnel	Check the intake/vent system.

* errors that can be reset by the user by keeping the **RESET** button pressed

** self-resettable errors, they automatically reset as soon as the failure is fixed

*** errors that can be reset only by the Technical Service personnel

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Fondital S.p.A. - Società a unico socio
25079 VOBARNO (Brescia) Italy - Via Cerreto, 40
Tel. +39 0365 878 31
Fax +39 0365 878 304
e-mail: info@fondital.it
www.fondital.com

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