

BAXI

LUNA 3 COMFORT

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●	High efficiency wall-mounted gas-fired boilers Installer's and User's Instructions
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MP02



Dear Customer,

We are sure your new boiler will comply with all your requirements.

Purchasing one of our products satisfies your expectations: good functioning, simplicity and ease of use.

Do not dispose of this booklet without reading it: you can find here some very useful information, which will help you to run your boiler correctly and efficiently.

Do not leave any parts of the packaging (plastic bags, polystyrene, etc.) within children's reach as they are a potential source of danger.

Our boilers bear the CE mark in compliance with the basic requirements as laid down in the following Directives:

- Gas Directive 90/396/CEE
- Performance Directive 92/42/CEE
- Electromagnetic Compatibility Directive 2004/108/EEC
- Low Voltage Directive 2006/95/EC



CONTENTS

INSTRUCTIONS PERTAINING TO THE USER

1. Instructions prior to installation	48
2. Instructions prior to commissioning	48
3. Commissioning of the boiler	49
4. Special functions	54
5. Filling the boiler	56
6. Turning off the boiler	56
7. Gas change	56
8. Prolonged standstill of the system. Frost protection	57
9. Error messages and table of faults	57
10. Servicing instructions	58

INSTRUCTIONS PERTAINING TO THE INSTALLER

11. General information	59
12. Instructions prior to installation	59
13. Boiler installation	60
14. Boiler size	60
15. Installation of flue and air ducts	61
16. Connecting the mains supply	65
17. Remote control installation	66
18. Gas change modalities	67
19. Parameters display	69
20. Parameters setting	71
21. Control and operation devices	72
22. Positioning of the ignition and flame sensing electrode	73
23. Check of combustion parameters	73
24. Output / pump head performances	73
25. Connection of the external probe	74
26. Connecting an external hot water tank and 3-way valve motor	75
27. Electrical connections to a multi-zone system	77
28. How to purge the DHW system from limestone deposits	78
29. How to disassemble the DHW heat exchanger	78
30. Cleaning the cold water filter	78
31. Annual maintenance	79
32. Boiler schematic	80-83
33. Illustrated wiring diagram	84-87
34. Technical data	88



BAXI S.p.A., a leading European manufacturer of central heating and hot water appliances for domestic use (wall-hung gas boilers, floor-standing boilers and electric water heaters) has obtained CSQ certification of conformity to UNI EN ISO 9001 standards. This certificate guarantees that the Quality System applied at **BAXI S.p.A.** in Bassano del Grappa, Italy, where this boiler was produced, meets all the requirements of UNI EN ISO 9001 standards and covers all the organisational stages and operating personnel involved in the production and distribution process.

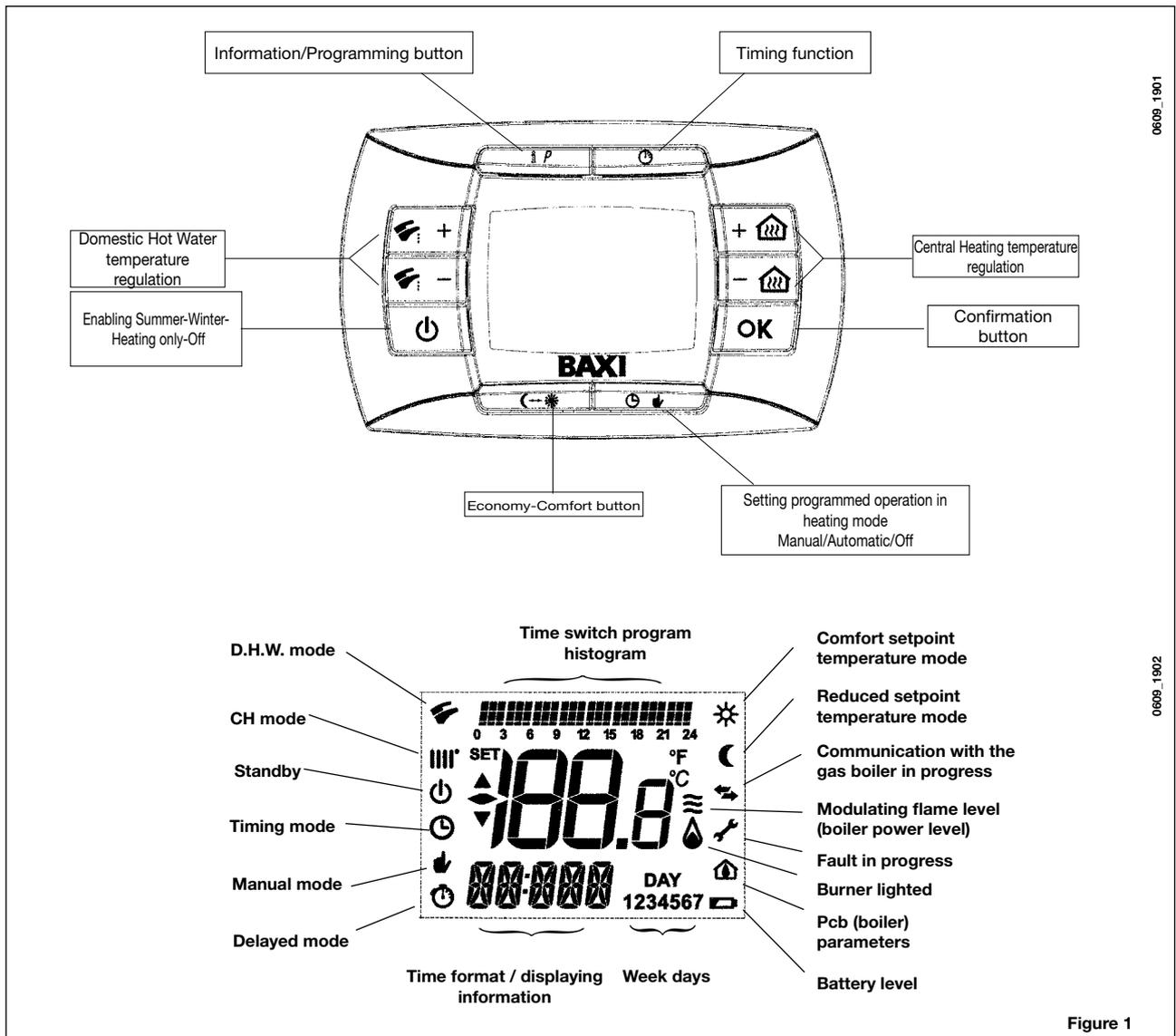
3. COMMISSIONING OF THE BOILER

To correctly light the boiler proceed as follows:

- Provide power supply to the boiler.
- open the gas cock;
- press the  button, to set the gas boiler mode as described in section 3.2.

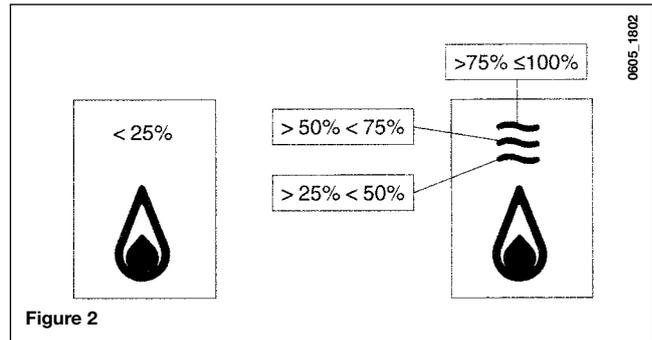
Note: if summertime mode is setting, the boiler will light only during a D.H.W. demand.

- To adjust the CH and D.H.W. temperature, press the +/- respective buttons as described in section 3.3.



3.1 SYMBOL MEANING

There are 4 *power levels* displayed during boiler operation, relevant to the gas boiler modulation, as shown in fig. 2:



3.2 DESCRIPTION OF BUTTON (Summer - Winter - Heating only - Off)

Press this button to set the following boiler operation modes:

- **SUMMER**
- **WINTER**
- **HEATING ONLY**
- **OFF**

In **SUMMER** mode the symbol  is shown on the display. The boiler only meets DHW demands; heating mode is not enabled (frost protection function is enable).

In **WINTER** mode the symbols  are shown on the display. The boiler meets DHW and heating mode demands (frost protection function activated).

In **HEATING ONLY** mode the symbol  is shown on the display. The boiler only meets heating mode demands (frost protection function is enable).

If **OFF** is selected, neither of the two symbols () () is displayed. In this mode only the frost protection function is enabled and any other demands in DHW or heating mode are not met.

3.3 DESCRIPTION OF BUTTON (AUTOMATIC-MANUAL-OFF)

By pressing this button it is possible to set one of the following Heating modes: AUTO-MANUAL-OFF as describe below.

AUTO (Displayed symbol)

The Heat request depends on the type of the “Time Programs” set (COMFORT room temperature “” or REDUCED room temperature “”). See section 3.6 to set the programming heating mode.

MANUAL (Displayed symbol)

This function disables the “Time Programming” in Heating mode. Press the +/-  button to set the room temperature value.

OFF (Displayed symbol)

This function disables the Heating mode and the display shows the  symbol (the frost protection is enabled).

3.4 ROOM AND DOMESTIC HOT WATER (D.H.W.) TEMPERATURE ADJUSTMENT

The room (||||) and D.H.W. (🔥) temperature adjustment are carried out by pressing the relative +/- buttons (figure 1). When the burner is lighted the display shows the symbol (💧) as described in section 3.1.

CENTRAL HEATING (CH)

During a CH mode, the display shows a CH (||||) symbol and the room temperature value (°C).

During a temperature regulation, the display shows “AMB”.

DOMESTIC HOT WATER (D.H.W.)

During a D.H.W. request, the display shows a D.H.W. (🔥) symbol and the room temperature value (°C).

During a temperature regulation, the display shows “HW SP”.

NOTE: if an external water tank is connected to the gas boiler, during a domestic hot water request, the display shows a (🔥) symbol and the room temperature value (°C).

3.4.1. Remote control installed on the boiler front panel

If the remote control is installed on the boiler front panel, the +/- (🏠) buttons regulate the Central Heating flow temperature. The display shows the room temperature.

3.5 PROGRAMMING (PROGR)

SETTING THE DATE-TIME

Press the **IP** button: the display shows (briefly) the message **PROGR** and the time starts flashing.

Note: If no button is pressed the function ends automatically after approx. 1 minute.

- Use the buttons +/- (🏠) to set the hour;
- Press the OK button;
- Use the buttons +/- (🏠) to set the minutes;
- Press the OK button;
- Use the buttons +/- (🏠) to set the day of the week “Day” (1...7 corresponding to Monday...Sunday);

Press the **IP** button to exit DATE-TIME setting.

3.6 PROGRAMMING HEATING MODE OPERATION TIMES

To enable the function, press the (🕒) button (the display shows the (🕒) symbol)

Time period programming allows the setting of boiler automatic operation in heating mode in fixed time slots and on fixed days of the week.

Boiler operation settings can be made for **single** days or **groups** of consecutive days.

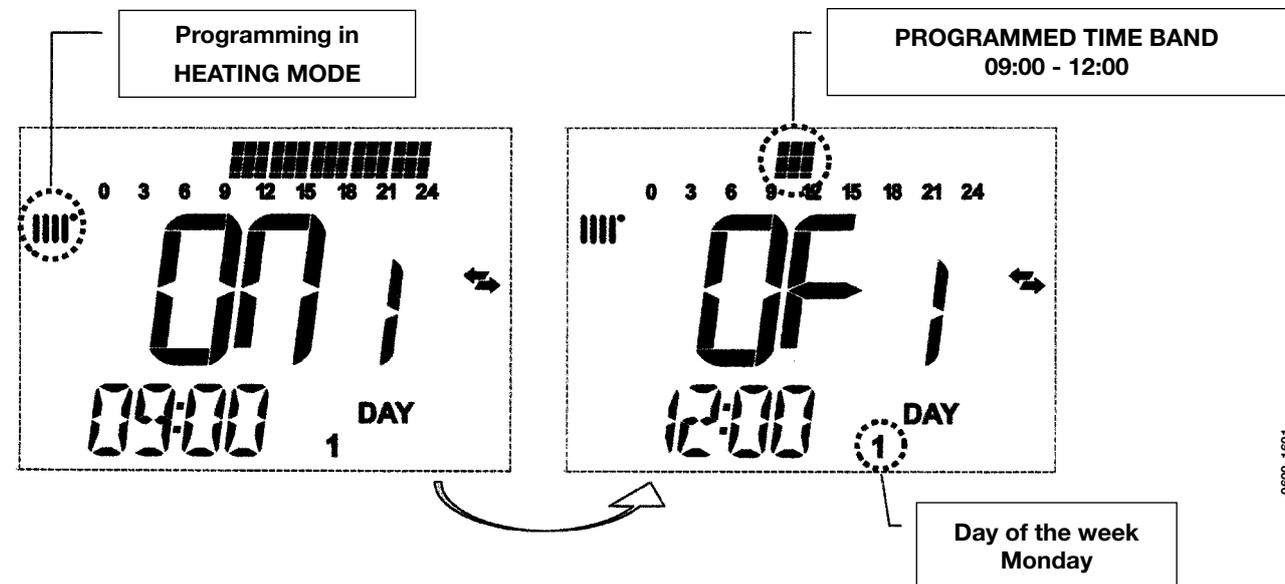
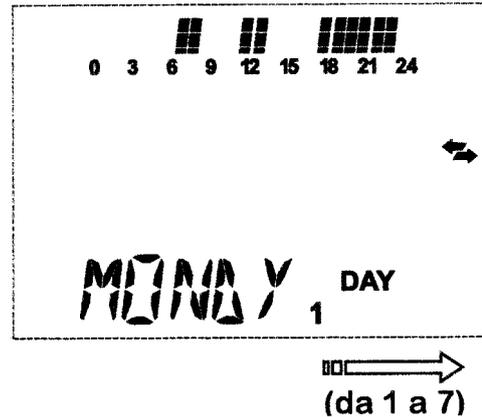
3.6.1. Single days

Four time bands (4 boiler activation and deactivation periods in heating mode even with different times from day to day) are available for every day selected, as shown in the following table:

			FACTORY SETTINGS							
			On 1	Of 1	On 2	Of 2	On 3	Of 3	On 4	Of 4
MONDY	DAY 1	(monday)	06:00	08:00	11:00	13:00	17:00	23:00	24:00	24:00
TUEDY	DAY 2	(tuesday)								
WEDDY	DAY 3	(wednesday)								
THUDY	DAY 4	(thursday)								
FRIDY	DAY 5	(friday)								
SATDY	DAY 6	(saturday)								
SUNDY	DAY 7	(sunday)								

To set a single time band, proceed as follows:

- 1) Press the **IP** button and then the button ;
- 2) choose a day of the week (1...7) by repeatedly pressing the buttons +/- ;
- 3) press the **OK** button;
- 4) the display shows the message **on 1** and the 4 digits of the time flashing, as shown in the figure below;
- 5) use the buttons +/- to set the boiler lighting time;
- 6) press the **OK** button;
- 7) the display shows the message **of 1** and the 4 digits of the time flashing;
- 8) use the buttons +/- to set the boiler switching off time;
- 9) press the **OK** button;
- 10) repeat the same operations (from point 4) to set the remaining three time bands;
- 11) press the **IP** button to exit the function.



Note: By setting the lighting time **on...** equal to the switching off time **of...**, the time band is cancelled and the program goes to the next time slot.

(ex. **on1**=09:00 - **of1**=09:00 the programme "skips" time band 1 and continues with **on2**...).

3.6.2. Groups of days

This function enables the programming of 4 common boiler activation and deactivation time slots for several days or the entire week (see the summary table below).

To set a single time band, proceed as follows:

- 1) Press the **IP** button and then the button ;
- 2) Select a **GROUP** of days by repeatedly pressing the buttons +/- ;
- 3) press the **OK** button
- 4) repeat the operations described in points 4-10 of paragraph 3.6.1.

Summary table of available groups of days

Summary table of available groups of days			FACTORY SETTINGS
Group "MO-FR"	DAY 1 2 3 4 5	from Monday to Friday	As per table in paragraph 3.6.1.
Group "SA-SU"	DAY 6 7	Saturday and Sunday	07:00 – 23:00
Group "MO-SA"	DAY 1 2 3 4 5 6	from Monday to Saturday	As per table in paragraph 3.6.1.
Group "MO-SU"	DAY 1 2 3 4 5 6 7	every day of the week	As per table in paragraph 3.6.1.

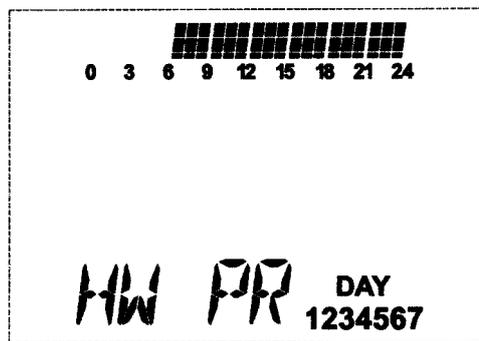
3.7 PROGRAMMING DHW MODE OPERATION TIMES

(only for boilers connected to an external heater)

This function enables the programming of four boiler DHW mode operation time slots in the span of a week (the programmed time slots are the same for every day of the week).

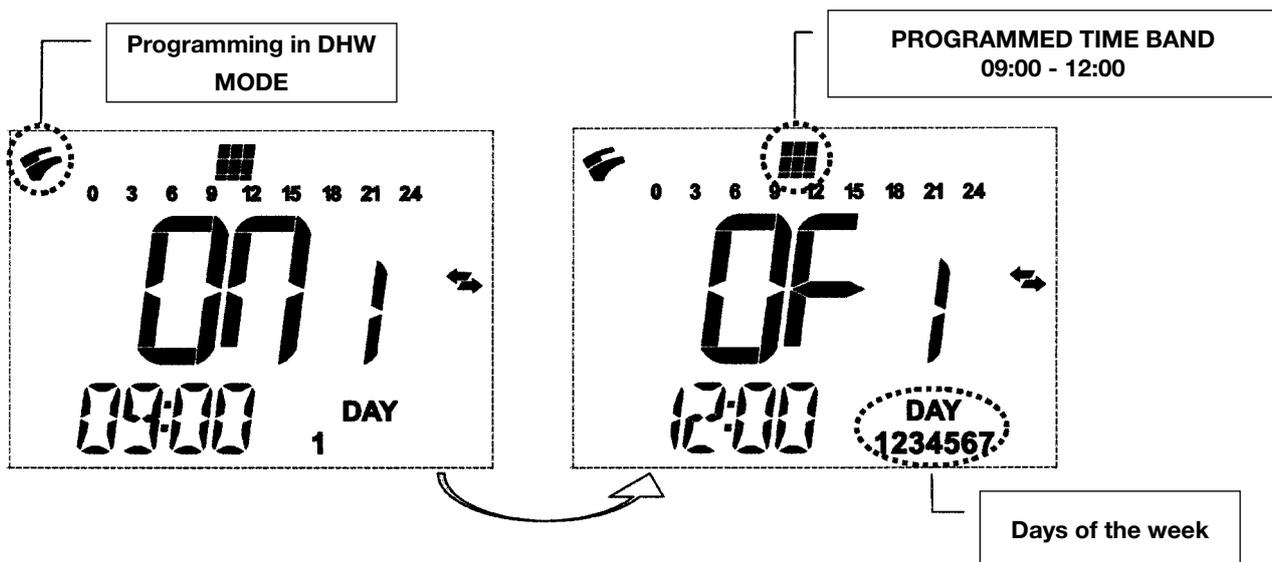
To set the programming of DHW mode operation times, proceed as follows:

- 1) Press the **IP** button and then the button to enter the programming (heating and DHW modes);
- 2) Select the DHW programme "HW PR" by repeatedly pressing the buttons +/- ;
- 3) Press the **OK** button
- 4) Set the time slots in which you can enable DHW mode operation by repeating the operations described in points 4-10 of paragraph 3.6.1 (factory setting 06:00 - 23:00).



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IMPORTANT: the installer has to set "HW PR" parameter = 2, as described in section 19.1.



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4. SPECIAL FUNCTIONS

4.1 ECONOMY - COMFORT FUNCTION

This function enables the user to set two different room temperature setpoints:

Economy / Comfort.

For more simplicity it's better to set the COMFORT value temperature higher than the ECONOMY value temperature.

To set the required room temperature, press the  button:

- the “**ECONM**” writing shows the operating in reduced room temperature mode; display shows  symbol;
- the “**COMFR**” writing shows the operating in nominal room temperature mode; display shows  symbol;

To temporary change the setting room temperature value, press +/-  buttons or see section 4.3.

This function could operates in automatic or in manual mode:

AUTOMATIC OPERATION (displayed symbol)

The setting room temperature depends on the time slot (section 3.6). Inside the time slot the room temperature is the COMFORT value, outside the time slot the room temperature is the ECONM value.

To temporary change the room temperature value (from COMFORT to ECONOMY or vice versa) press the  button. This changes has effect until the next time change over.

MANUAL OPERATION (displayed symbol)

Press   button to set the gas boiler in manual operation mode

To temporary change the room temperature value (from COMFORT to ECONOMY or vice versa) press the  button. This change has effect until the next button pressure.

4.2 SHOWER FUNCTION

The shower function ensures better hot water comfort, e.g. during a shower.

This function enables domestic hot water to be drawn at a lower temperature than the nominal temperature value.

To set or modify the max. shower function temperature value, refer to section 4.3.

This function can be manually activated in the following way:

- Press one of the two buttons +/-  and then the button  to activate the function; (the message **SHOWR** briefly appears on the display, followed by the message **HW SS**);
- press the **OK** button while the flow temperature and the symbol  flash on the display;
- the duration of the function is **60 minutes** (during this time the symbol  flashes).

At the end of this time the domestic hot water temperature returns to the value of the previously set operating mode (the symbol  is no longer intermittent on the display).

Note: To disable the function before the end of the 60 minutes, proceed as follows:

- press one of the two buttons +/-  and then the button ;
- press the **OK** button, the display shows the message “**HW S^** “..

4.3 TEMPERATURE VALUES MODIFICATION BY PRESSING THE BUTTON

To modify the room temperature values, proceed as follows:

- press the **IP** button to enable the **PROGR** function;
- press the  button to select the required function as described in the following table:

Function	Display	Description of function
COMFR	The set temperature value flashes (factory setting = 20°C)	Boiler operation in heating mode at nominal temperature.
ECONM	The set temperature value flashes (factory setting = 18°C)	Boiler operation in heating mode at reduced temperature.
NOFRS	The set temperature value flashes (factory setting = 5 °C)	Boiler operation in heating mode at room frost protection temperature.
SHOWR	The set temperature value flashes (factory setting = 40°C)	Boiler operation in DHW mode at DHW temperature set.

- Press the +/-  button to modify the value of the selected function.
- Press the **IP** button to exit the function.

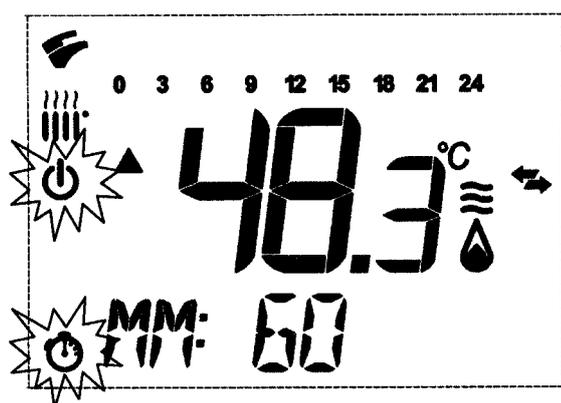
4.4 PROGRAMMABLE SWITCHING TIME FUNCTION (BUTTON)

4.4.1 HOLIDAY PROGRAM function

It is possible to temporary shut off the timing program (section 3.6) for a certain period of time. During this period of time a minimum room temperature value is guaranteed (default value 5°C). To modify this temperature value see section 4.3 under the entry “**NOFRS**”.

To enable the function proceed as follows:

- press the  button to set the function to “**AUTO**” (symbol );
- press the  button, the display shows the writing **MM 60** and the   symbols flashing.



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In this example the function has a period of 60 minutes.

Press the +/-  buttons to set the period of the timing program with 10 minutes step. The period of time is settable from a minimum of 10 minutes to a maximum of 45 days.

By pressing the +  button after **90 minutes**, the display shows “**HH 02**”: in this case the period of time is carried out in hours from a minimum of 2 hours to a maximum of 47 hours, with 1 hour step.

By pressing the +  button after **47 hours**, the display shows “**DD 02**”: in this case the period of time is carried out in days from a minimum of 2 days to a maximum of 45 days, with 1 day step.

WARNING: do not press any button after having enabled this function. By pressing some of the remote control buttons, it is possible that the manual function is enabled by mistake (in this case the display shows the  symbol) and that causes the “Holiday Program” function shut off. In this case it is necessary to repeat the instructions described at the beginning of this section to enable again the function.

4.4.2 PARTY function

This function allows the user to set a temporary room temperature value. It is possible to change this temperature value also during the function operation.

The operating mode returns to a previous setting at the end of this period of time.

To enable the function, proceed as follows:

- press the   button to set the function to “MANUAL” (symbol );
- press the  button, the display shows the writing **MM 60** and the   flashing;
- to set the period of the timing program see the section 4.4.1.
- to modify the room temperature value, press the “OK” button (the display shows “AMB”) then press the +/-  buttons.

5. FILLING THE BOILER

IMPORTANT: Regularly check that the pressure displayed by the pressostat (figure 3) is 0.7 to 1.5 bar, with boiler not operating. In case of overpressure, open the boiler drain valve (figure 3).

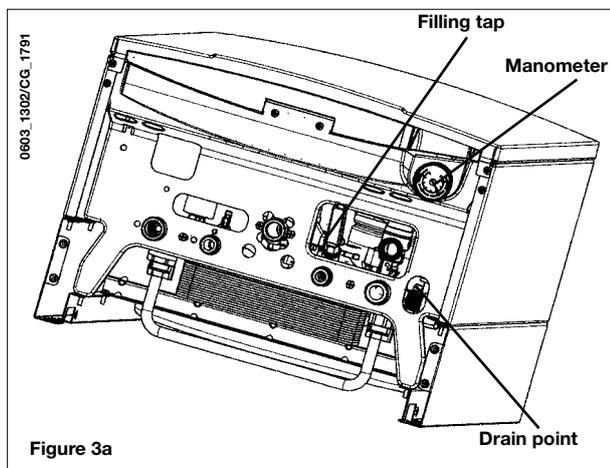
In case the pressure is lower open the boiler filling tap (figure 3).

We recommend you open the tap very slowly in order to let off the air.

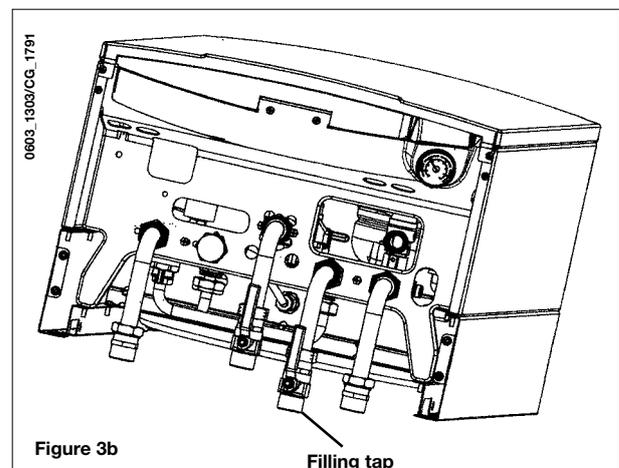
During this operation, the gas boiler must be in “OFF” mode (press the  - figure 1).

NOTE: In case pressure drops occur frequently have the boiler checked by a Qualified Service Engineer.

240i - 240 Fi - 310 Fi



1.240i - 1.240 Fi - 1.310 Fi



6. TURNING OFF THE BOILER

To switch off the boiler, the electrical power to the appliance must be turned off. If the boiler is “OFF” (section 3.2), the electrical circuits remain powered and the frost protection function is activated (section 8).

7. GAS CHANGE

These boilers set for natural gas can be converted to work with **LPG**. Any gas change must be effected by a Qualified Service Engineer.

8. PROLONGED STANDSTILL OF THE SYSTEM. FROST PROTECTION

We recommend you avoid draining the whole system as water replacements engender purposeless and harmful limestone deposits inside the boiler and on the heating elements. In case the boiler is not operated during wintertime and is therefore exposed to danger of frost we suggest you add some specific-purpose anti-freeze to the water contained in the system (e.g.: propylene glycole coupled with corrosion and scaling inhibitors).

The electronic management of boilers includes a "frost protection" function in the central heating system which operates the burner to reach a heating flow temperature of 30° C when the system heating flow temperature drops below 5°C.

The frost protection function is enabled if:

- * electrical supply to the boiler is on;
- * the gas service cock is open;
- * the system pressure is as required;
- * the boiler is not blocked.

9. ERROR MESSAGES AND TABLE OF FAULTS

There are two type of fault carried out by the temperature control: **FAULT** and **BLOCK**.

FAULT

If a fault occurs, the display shows the   symbols flashing together with the **<ERROR>** writing.

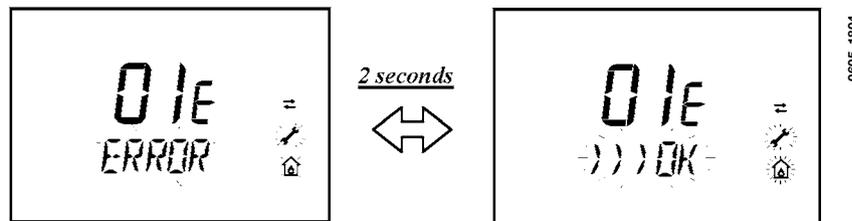
The fault is identified by an error code followed by **E** letter and is not resettable. Call an authorized Service Centre.



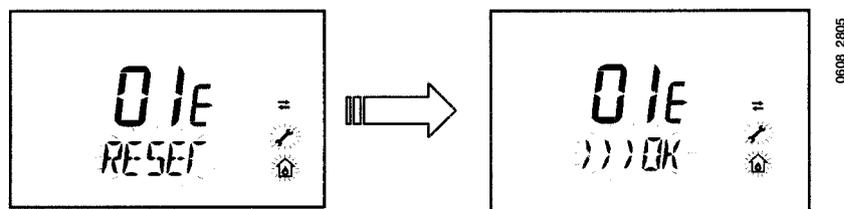
BLOCK

If a block occurs, the display shows the   symbols flashing together with the **<ERROR>** writing alternated, with 2 seconds step, with the **<>>>OK>** flashing writing.

The block fault is identified by an error code (see the table below) followed by **E** letter.



Press the **OK** button (figure 1) to reset the gas boiler. The display shows the **<RESET>** writing and then the **>>>OK** writing



ERROR CODE	Description of FAULTS	CORRECTIVE ACTION
01E	Gas supply fault	Press the OK button (figure 1) for at least 2 seconds. If this fault persist, call an authorised Service centre.
02E	Safety thermostat sensor tripped	Press the OK button (figure 1) for at least 2 seconds. If this fault persist, call an authorised Service centre.
03	Flue pressure switch tripped	Call an authorised Service centre.
	Flue thermostat sensor tripped	Press the OK button (figure 1) for at least 2 seconds. If this fault persist, call an authorised Service centre.
04E	Safety error for frequently loss of flame	Call an authorised Service centre.
05E	Central heating NTC sensor fault	Call an authorised Service centre.
06E	Domestic Hot Water NTC sensor fault	Call an authorised Service centre.
10E	Water pressure LOW	Check that the pressure in the system is as specified. See Section 5. If this fault persist, call an authorised Service centre.
11E	Safety thermostat has cuts out (for low temperature system)	Call an authorized Service centre.
18E	System water filling function enable (only for predisposed appliances)	Waiting until the system filling is finished
19E	System filling anomaly (only for predisposed appliances)	Call an authorized Service centre.
25E	Boiler max temperature exceeded (probable pump jammed or air in the circuit)	Call an authorized Service centre.
31E	No communication between the main board and the remote temperature control	Press the OK button (figure 1) for at least 2 seconds. If this fault persists, call an authorized Service centre
35E	Fault flame (parasitic flame)	Press the OK button (figure 1) for at least 2 seconds. If this fault persists, call an authorized Service centre
80E-96E	Internal remote control error	Call an authorized Service centre.
97E	Wrong power supply electrical frequency (Hz)	Set the correctly electrical frequency (Hz)
98E-99E	Electrical main board internal error	Call an authorized Service centre.