

10. USER INSTRUCTIONS

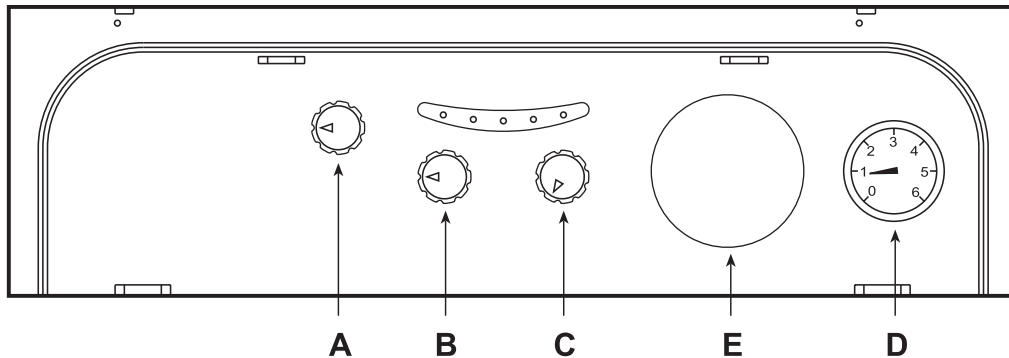


Fig. 37

LED		KEY	DESCRIPTION
1		A	Switch OFF/ON/RESET
2		B	Central heating flow temperature regulation
3		C	D.H.W. temperature regulation
4		D	Water pressure gauge
		E	Time clock (option)
5			

The boiler is designed for use with two types of gas: natural gas NG or propane (LPG). The type of gas can be selected when purchasing the boiler or the appliance can be converted later on site by a competent person. It operates with technologically advanced systems such as electronic control, safety and control devices.

The boiler is fitted with automatic electronic ignition so there is no pilot to worry about.

Pull down cover to reveal control facia panel.

Make sure that the gas, water and electricity supplies to the boiler are turned on.

The boiler pressure gauge (D) should read at least 1 bar.

Low pressure will be indicated by flashing light in the middle of the facia illuminating ().

Hot Water Only - "SUMMER" ()

To obtain hot water only from the boiler, turn switch (A) to the on position. The top green light on the left side of the control panel is illuminated (power on)

Turn the temperature regulator (B) to the position. Open a hot water tap, green light (tap symbol) comes on, fan starts and burner will light. Indicated by flame symbol, green light coming on. The temperature of the hot water can be adjusted by turning the hot water thermostat (B) clockwise to increase and anti-clockwise to decrease the water temperature.

Heating and Hot Water - "WINTER" ()

To obtain heating from the boiler, turn the temperature regulator (B) clockwise to the maximum position, ensure that any other heating controls e.g. room thermostats, clock etc. are in the on position.

The boiler may be in heating delay of three minutes as indicated by the red light (egg timer symbol) on the left of the facia panel. When this light goes out the green light (radiator symbol) will come on. The fan and pump will run and the burner will light indicated by the green flame symbol light. Adjust the temperature regulator to the desired setting. (In winter do not run boiler below 50°C). If a hot water tap is opened whilst the boiler is running for heating the pump will stop, suspending the heating phase and the boiler will give priority to hot water production. When the tap is closed the boiler will go into a three minute delay cycle before resuming for heating.



Boiler lock out

In the event of the red lockout light (X) coming on, the on/off/reset switch (A) should be turned clockwise against the spring tension to the reset position and released (this will put the boiler into three minute delay if in the heating mode). If the lockout light (X) illuminates repeatedly, contact an approved Ferroli service engineer.

Frost Protection

In cold weather the boiler may appear to run when there is no demand for heating (i.e. clocks or room thermostats turned off). This is due to the central heating sensor going into frost protection mode. Once the boiler has reached 14°C or more it will close down until either the temperature again falls below 7°C or the clock or room thermostat is turned on.

For this reason we recommend that the electricity to the boiler is left turned on. If you wish to turn off the electricity to the boiler in winter you should drain completely the heating and hot water circuits.

Cleaning

The casing requires no special cleaning, a wipe with a soft duster or damp cloth will suffice.

Maintenance

Ferroli recommend that the appliance is serviced **at least once every twelve months** by a competent engineer.

Gas Supply

It is the law that all gas appliances are installed and serviced by a competent person in accordance with the Gas Safety Regulations (Installation & Use) 1996, and the manufacturers instructions. Failure to observe these requirements may lead to prosecution.

Electrical Supply

WARNING - This appliance must be earthed.

The electrical wiring must be carried out by a competent electrician.

The colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminal in the plug. Therefore, proceed as follows:

The wire coloured green and yellow must be connected to the terminal in the plug marked with either the letter E or by the earth symbol or coloured green or green and yellow. The wire coloured blue must be connected to the terminal marked either with the letter N or coloured black. The wire coloured brown must be connected to the terminal marked either with the letter L or coloured red.

MINIMUM CLEARANCE

The minimum clearance around the appliance should be as follows:

Sides	5mm
Front	600mm
Below	200mm
Above	100mm

Time Clock

A 24 hour time clock is fitted to the boiler to control the central heating, this will come into operation when the selector switch is turned to the position marked "heating timed and hot water".

A Slide switch: set clock - auto - set programme

B Display. Symbol in Display = Timer ON

P Select programme ON/OFF 1.....8

D Push buttons Time + Time -

E Override: Boiler will switch ON if boiler is OFF; and OFF if is ON

F I=Heating continuous - AUTO=Heating timed - O=Heating disabled

R Reset (with pencil) only with switch **A** in set clock position

To set time of day

- Slide switch (**A**) to left position
- Using button + and - adjust until the correct time is shown on display (**B**).

Pre Set Programmes. The timer is pre programmed with 3 ON and 3 OFF times.

6:30 - 8:30
12:00 - 12:00
16:30 : 22:30

If these are suitable no programming is required and the slide switch (**A**) can be moved to the Auto position and the central heating will be ON for these periods.
(12:00 - 12:00 will not switch on the boiler)

To Set Own ON and OFF times. Symbol in Display = ON time

- Slide switch (**A**) to right position (**P**)

Display

- Press button (**P**)

Display

- Press button (**P**)

Display

- Press button (**P**)

Display

- Press button (**P**)

Display

- Press button (**P**)

Display

- The timer can be programmed with up to 8 ON and 8 OFF times by repeating the above procedure.

- 1.1 Use buttons + and - to set 1st ON time eg. 6:00

Display

- 2.1 Use buttons + and - to set OFF time, eg. 9:00

Display

- 3.1 Use button + and - to set 2nd ON time, eg. 12:30

Display

- 4.1 Use button + and - to set 2nd OFF time eg. 14:00

Display

- 5.1 Use button + and - to set 3rd ON time, eg. 16:00

Display

- 6.1 Use button + and - to set 3rd OFF time eg. 23:30

Display

8. On completion of programming slide switch (**A**) to Auto position, the time of day will be displayed and the central heating will switch ON and OFF according to the programme set.

Over ride

By pressing the over ride button (**E**) the timer programme is over ridden ie, if programme is in OFF time it will come ON and if in ON time will go OFF. The timer will revert back to it set programme on reaching the next ON or OFF time. When the programme is on over ride the sign will be shown in the display window (**B**).

Reset Button

By the use of a pencil the reset button can be pushed (**R**). This will clear all programmes apart from those factory pre set.

Reset is only possible with switch (A**) in set Clock position!**