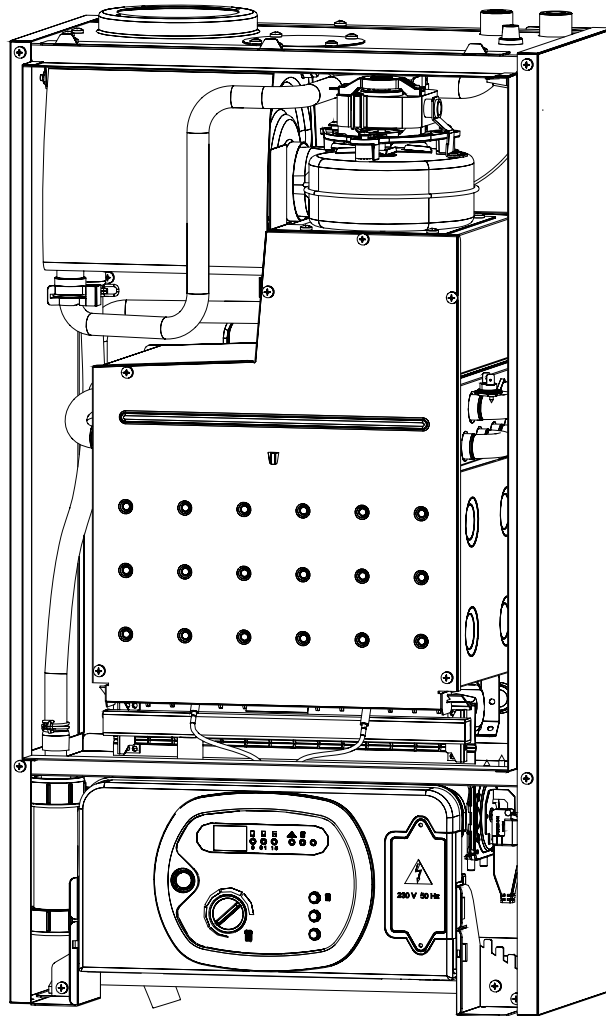




Heating technology since 1959

CE 0694

## USER INSTRUCTIONS



### *RH 28 OV* *Open Vented Boiler*

SEDBUK BAND B

GAS COUNCIL N°: 41-651-19B



The code of practice for the installation,  
commissioning & servicing of gas fires and wall heaters



RADIANT BRUCIATORI S.p.A. declare that all its products are manufactured to a high specification and in compliance with the relevant standards.

All RADIANT boilers are CE certified and possess technical and functional characteristics that comply with the following standards:

UNI-CIG 7271 (April 1988)

UNI-CIG 9893 (December 1991)

UNI EN 297 for GAS-FIRED CENTRAL HEATING BOILERS TYPE B OF NOMINAL HEAT INPUT = 70 kW

EN 483 for GAS-FIRED CENTRAL HEATING BOILERS TYPE C OF NOMINAL HEAT INPUT = 70 kW

UNI EN 677 for GAS-FIRED CENTRAL HEATING BOILERS. SPECIFIC REQUIREMENTS FOR CONDENSING BOILERS WITH NOMINAL HEAT INPUT = 70 kW

The gas-fired boilers also comply with the following directives:

GAS APPLIANCES DIRECTIVE 90/396 CEE for CE compliance

LOW VOLTAGE DIRECTIVE 73/23 CEE

ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 89/336 CEE

BOILER EFFICIENCY DIRECTIVE 92/42 CEE

The materials used such as copper, brass, stainless steel, etc. form a compact, homogeneous, highly functional unit that is easy to install and simple to operate. In its simplicity, the wall-mounted appliance is equipped with all the appropriate accessories required to make it a fully independent boiler capable of acting as an indirect heat source to supply a primary source of heat for both Central Heating and Domestic Hot Water Demands. All boilers are fully inspected and are accompanied by a quality certificate, signed by the inspector, and a guarantee certificate. This manual must be kept in a safe place and must accompany the boiler at all times.



RADIANT BRUCIATORI S.p.A. will not be held responsible for any misinterpretation of this manual resulting from the inaccurate translation of same.

RADIANT BRUCIATORI S.p.A. will not be held responsible for the consequences in the case of non-observance of the instructions contained in this manual or in the case where actions not specifically described herein are undertaken.



Radiant Bruciatori S.p.A. declare that no substances harmful to health are contained in the appliance or used during appliance manufacture and have not used or intend to use any of the following substances in the manufacture of Radiant heating products:

- Asbestos, PBB's, PBDE's
- Lead, Cadmium, Mercury
- CFC's.

No items contained into a Radiant boiler are needed to comply with WEEE and ROHS directives.

*The Radiant Helpline UK: 0870 770 0414*

# 1. GENERAL WARNINGS

Thank you for choosing a Radiant boiler.

Please read ALL of this manufacturer instruction manual **BEFORE** starting working on the appliance.



This appliance must be installed only by professionally qualified personnel in accordance with current laws and standards and in line with the manufacturer's instructions.



In GB, the installation must be carried out by a CORGI Registered Installer. To check for authorised qualified engineers please contact CORGI 01256-372400. It must be carried out in accordance with the relevant requirements of the:

- Gas Safety Regulations;
- The appropriate Building Regulations either The Building Regulation, The Building Regulations (Scotland), Building Regulations (Northern Ireland);
- The Water Fittings Regulations or Water Byelaws in Scotland;
- The current I.E.E. Wiring Regulations.

Where no specific instructions are given, reference should be made to the relevant British Standards Code of Practice.



In IE, the installation must be carried out by a competent Person and installed in accordance with the current edition of I.E. 813 'Domestic Gas Installations', the current Building Regulations and reference should be made to the current ETCI rules for electrical installations.



The commissioning of the boiler and any subsequent works carried out on the appliance must be effected by an appropriately qualified technician or an approved Radiant Helpline Service Centre.

Under no circumstances will the manufacturer be held responsible for damage or injury to persons or animals caused by errors in the installation and/or use of the appliance, or through non-compliance with current local and national standards and/or the manufacturer's instructions.

This Manufacturer Installation and Maintenance manual forms an integral part of the boiler installation and must be kept in a safe place and made available for future references. This Manual must be left along with the Benchmark commissioning booklet with the boiler as Regulation 29 of the HSC Gas safety (installation and use) Regulations 1998.

The warnings contained in this chapter have been written for the appliance installer and servicing engineer.



This appliance can be used with an open-vented or sealed system primary circuit.

## 2. OPERATING THE BOILER

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During the installation, the technician must carry out the following checks:

- The data on the rating plate must correspond to that of the mains supply networks (gas, electricity, water).
- The boiler must be regulated according to its designed use and performance.
- The flue gas exhaust and combustion air intake system must be correctly installed and operational.
- The exhaust gas discharge and ventilation systems must comply with the requirements of national and local standards regardless of whether the boiler is installed indoors, outdoors or in its own cabinet.



### GAS LEAKS

If a gas leak is found or suspected,

- turn off the gas supply at the meter immediately and at the isolating valve on the boiler if possible;
- do not activate any electrical switches or any device that may generate electrical sparks;
- open all the doors and windows immediately;
- call your gas supplier.



### ANTIFREEZE SYSTEM

Should any part of the boiler freeze-up, do not attempt to light it under any circumstances, but instead call the Service Centre immediately.

The boiler is fitted with an antifreeze system. If the boiler is installed in a location where there is a risk of freezing, the anti-freeze system will only come into operation if the appliance is switched on (i.e. with the boiler switch in the ON position) and the gas supply valve is open. The manufacturer will not be held responsible for damage to the boiler caused by non-compliance with this instruction.

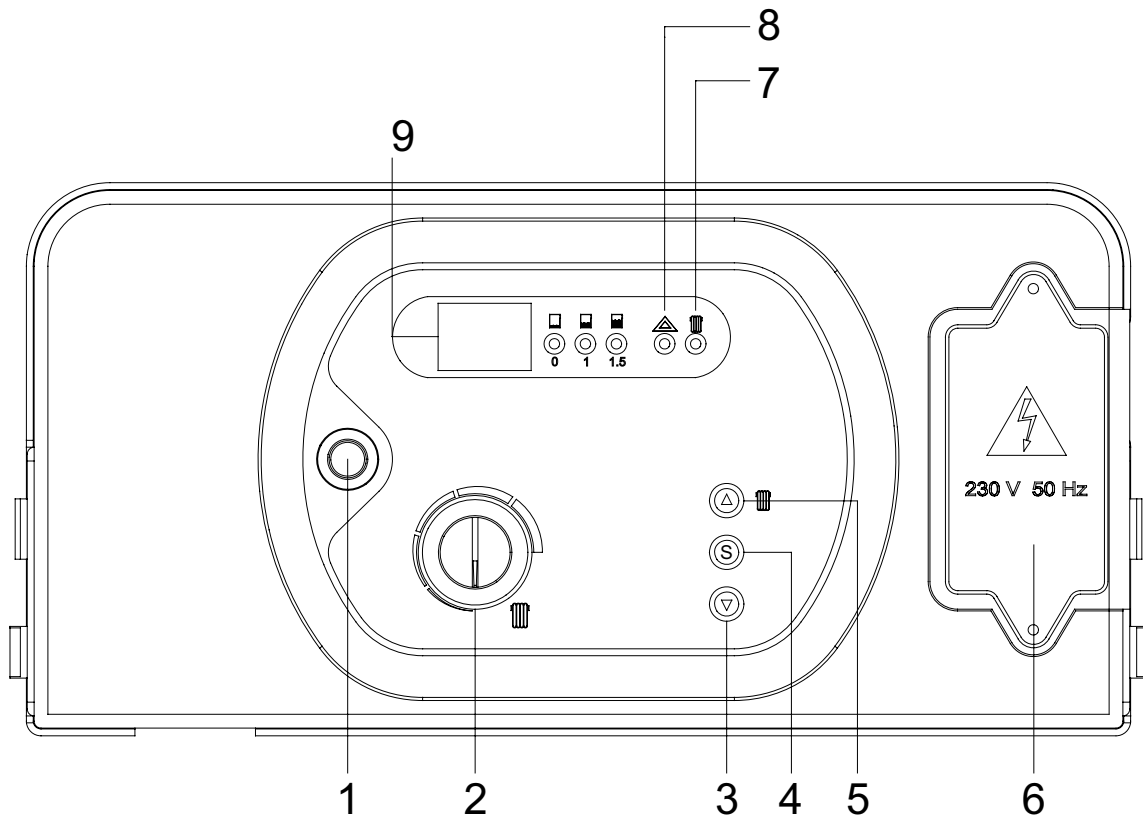
### SERVICING THE APPLIANCE

The appliance should be serviced at least once a year for safety and economy reasons.

Your Instasller or Service Engeneer will be able to advise you.

## 2. OPERATING THE BOILER

### 2.1 Control Panel



#### KEY

1. ON - OFF SWITCH;
2. CENTRAL HEATING FLOW TEMPERATURE CONTROL KNOB;
3. DOWN ARROW;
4. SERVICE BUTTON;
5. UP ARROW;
6. TERMINAL BOARD FOR EXTERNAL WIRING;
7. CENTRAL HEATING LED:
  - FIXED LIGHT: HEATING MODE SELECTED;
  - FLASHING: CURRENT DEMAND FOR HEATING WATER;
8. BOILER FAULT LIGHT. FAULT CODE WILL FLASH ON DISPLAY;
9. PANEL DISPLAY

## 2. OPERATING THE BOILER

### 2.2 Starting Up the Boiler

To start up the appliance, please refer to the following:

1. Open the gas isolating valve located under the boiler;
2. Turn the power ON by the ON/OFF switch on the panel;
3. The boiler will automatically light up with the WINTER mode selected;
4. Check that there are no flashing faulty codes on the display.

To set the central heating flow temperature, please turn the knob (2) on the panel. The digital display will show the setting temperature.

The range of possible settings goes from 30 to 80 °C for standard heating systems, or from 25 to 40 °C for underfloor heating systems.

The boiler will only work for the central heating system.

The "WINTER" mode setting of the boiler is signalled by led 7 lit on the control panel.

The automatic ignition system will light the burner every time there is a demand for room heating. In this case, led 7 on the control panel will flash.

## 3. SERVICING THE APPLIANCE

### 3.1 Diagnostics

This is a list of error codes that may flash on the digital display of the boiler with its own operations to reset the appliance. The led n° 8 will flash on the panel during these operations.

If any of the following lockout re-occurs after the corrective actions have been taken, call

***The Radiant Helpline UK: 0870 770 0414***

<i>Code</i>	<i>Fault Description</i>	<i>Possible Cause</i>	<i>Remedy</i>
01	Ionization Lockout	1. no gas;	<ul style="list-style-type: none"><li>- Check gas inlet supply: check that the gas valve on the boiler and the gasmeter are open and that there's gas in the main supply or into the tank.</li><li>- Switch off and then on the appliance.</li><li>- If the problem re-occurs, please contact the Radiant Helpline Uk.</li></ul>
02	Safety Thermostat (95°C)	1. faulty or incorrect thermostat; 2. faulty wiring;	Call the Radiant Helpline
03	Flue Thermostat	1. faulty or incorrect thermostat; 2. faulty wiring;	Call the Radiant Helpline
05	Heating Modulation Sensor	faulty or not calibrated sensor (10kOhm @ 25°C); incorrect or wet wiring to the PCB;	Call the Radiant Helpline
22	Parameter Programming requested	1. data loss in microprocessor memory;	Call the Radiant Helpline

If the appliance is to be left unused for a long period of time, the user must do one of the following:

- make the boiler safe, by disconnecting all the power supplies (electricity and gas), and call the Radiant Helpline UK for drain the heating system and the condensate trap;
- leave the boiler in standby, leaving the electricity and gas supplies connected and, consequently the antifreeze function.



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