

E

Caldera mural de gas

Instrucciones de Funcionamiento,
Limpieza y Mantenimiento
para el **USUARIO**

GB

Wall-mounted gas boiler

Operating, Cleaning
and Maintenance Instructions
for the **USER**

F

Chaudière murale à gaz

Instructions de Fonctionnement,
de Nettoyage et de Maintenance
pour l'**USAGER**

D

Wandgaskessel

Betriebs-, Reinigungs-
und Wartungsanleitung
für den **BENUTZER**

I

Caldaia murale a gas

Funzionamento ed Istruzioni
per la Pulizia e la Manutenzione.
Manuale per l'**UTENTE**

P

Caldeira mural a gás

Instruções de Funcionamento,
Limpeza e Manutenção
para o **UTENTE**

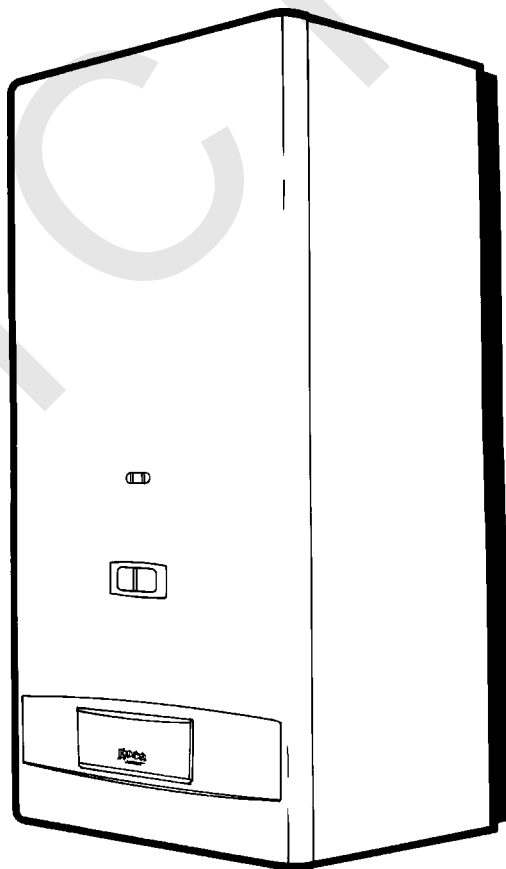


Fig. 1

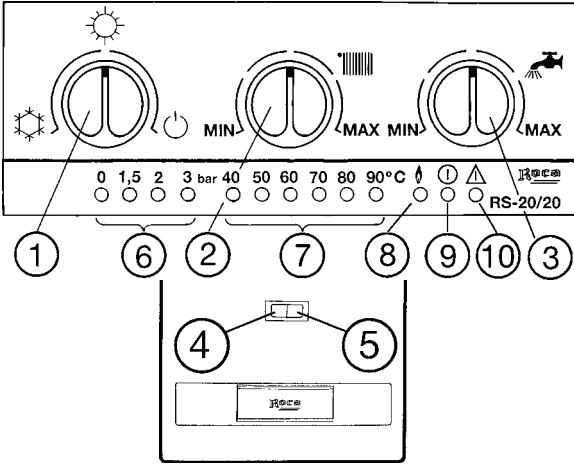


Fig. 7

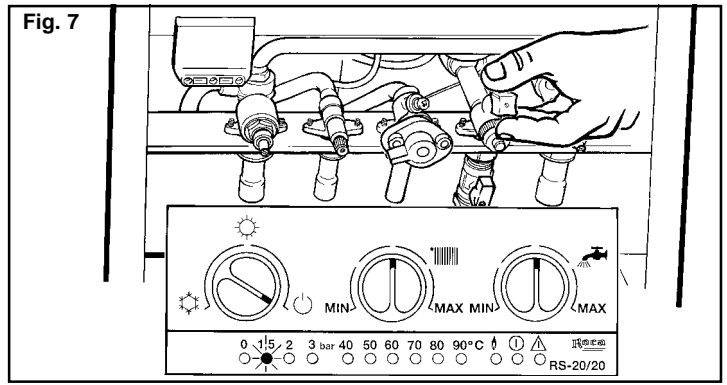


Fig. 2

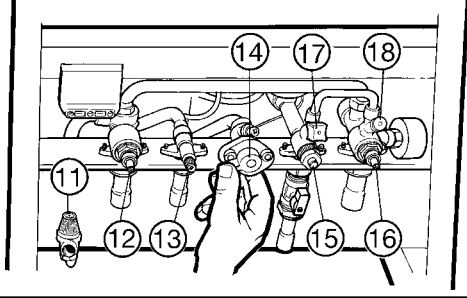


Fig. 8

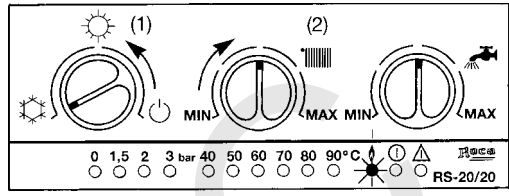


Fig. 9

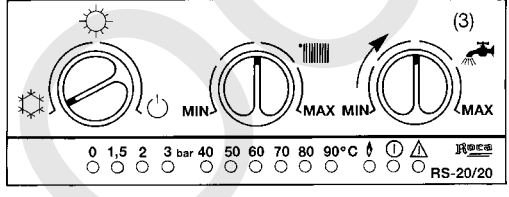


Fig. 3

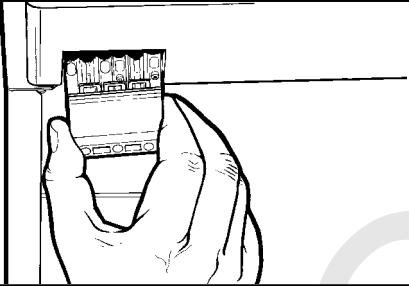


Fig. 10

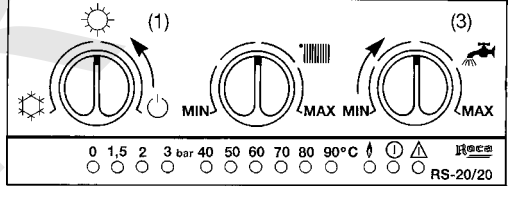


Fig. 4

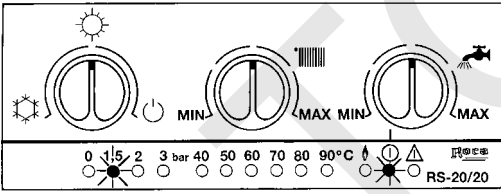


Fig. 11

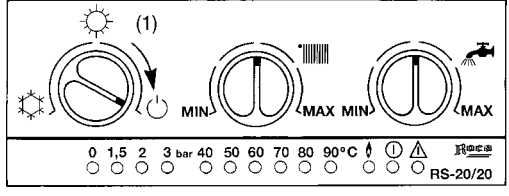


Fig. 5

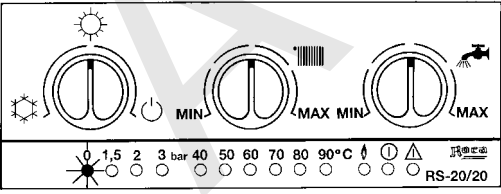


Fig. 12

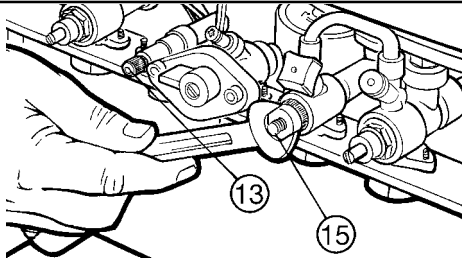


Fig. 6

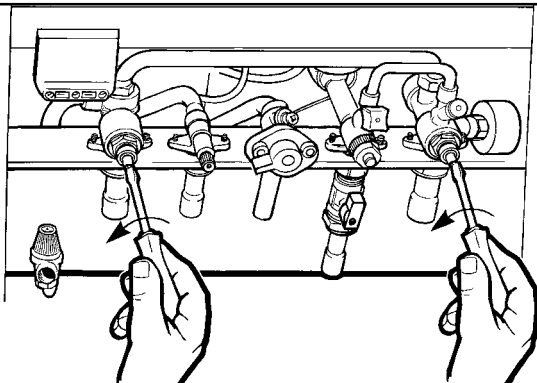
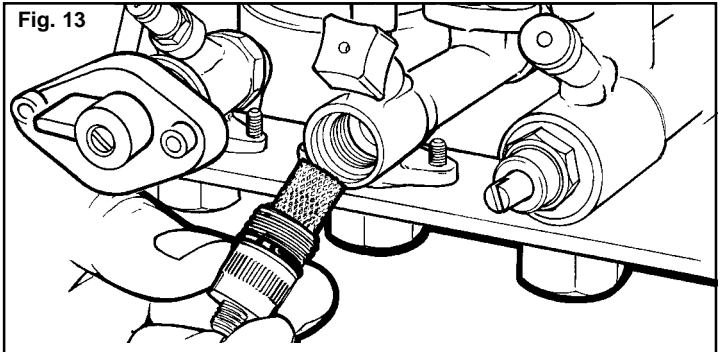


Fig. 13



Main characteristics

Boiler with Heating and instant. Hot Water service.

Heating service

Power output: from 6,000 kcal/h (7 kW) to 20,000 kcal/h (23.25 kW).

Adjustable from 10,000 kcal/h (11.6 kW) to 15,000 kcal/h (17.44 kW).

Maximum pressure of the circuit: 3 bar.

Maximum temperature: 90°C.

Filling pressure: 1.5 bar.

Domestic Hot Water Service (DHW)

Power output: From 6,000 kcal/h (7 kW) to 20,000 kcal/h (23.25 kW).

Maximum pressure of the circuit: 7 bar

Maximum temperature: 60°C

DHW Production: $\Delta t = 25^{\circ}\text{C}$, 13.3 l/min.

$\Delta t = 30^{\circ}\text{C}$, 11.2 l/min

$\Delta t = 35^{\circ}\text{C}$, 9.5 l/min.

Minimum pressure and flow rate for ignition: 0.2 bar and 3 l/min.

(1 kW = 860 kcal/h)

Regulation and control panel

See [Figure 1](#).

Potentiometers and Buttons

1. Service selection dial: off-summer-winter.
2. Heating circuit temperature selector.
3. DHW temperature selector.
4. Button for gas supply to pilot flame.
5. Piezoelectric.

Indicator lamps

6. Pressure in heating circuit.
7. Temperature in heating circuit.
8. Service demand.
9. Supply voltage.
10. Lock-out.

Identification of the valves

See [Figure 2](#).

11. Safety valve.
12. Heating flow.
13. DHW outlet.
14. Gas inlet.
15. Cold mains water inlet.
16. Heating return.
17. Heating circuit filling valve.
18. Heating circuit drain cock.

Start-up

Check that the electrical socket is in the correct position, pushing it firmly inwards. If for any reason you need to leave the boiler without electrical supply, it must be unplugged from the socket. See [Figure 3](#).

Open the front cover for access to the regulation and control panel. The green pilot lamp should be on. Check the pressure in the heating circuit, which should be at 1.5 bar. See [Figure 4](#).

If the green pilot lamp does not light up, there is no electricity reaching the unit. Check to see if any of the safety devices at your mains entry is disconnected.

If the "0 bar" pressure pilot lamp lights up, it means that there is a lack of pressure in the heating circuit. See [Figure 5](#).




Check that the flow and return heating valves are in the correct position; both should be fully open. See [Figure 6](#).

In order to increase the pressure in the circuit, turn the handle of the filler cock anticlockwise until the pressure reaches 1.5 bar. See [Figure 7](#). Once the correct pressure has been reached, close the flywheel. The red "0 bar" pilot lamp will go out.


Check that the circulator is turning. Using a screwdriver, press the groove on the shaft to make it turn.


Check that the cock for gas supply to the boiler is open. See [Figure 2](#).

Ignition

With the service dial (1) at "off"  (see [Fig. 1](#)), press the gas supply button (4) right back. Without releasing it, press the ignition button (5). Once the pilot flame has ignited, wait about 20 seconds before releasing the supply button (4). Then turn the service dial (1) to the position required: Winter  or Summer .

Service selection

Winter: Heating and Domestic Hot Water  Check that cocks (12), (15), (16) and (19) are open. See [Figure 2](#).

Turn the service selection dial (1) to  (see [Fig. 8](#)) The boiler is now programmed to provide a service of Heating and Domestic Hot Water, with preference for the latter.

If the orange pilot lamp lights up, it means that the boiler is on demand in one of the services.

Heating

Turn the heating selector (2) to the temperature required (see [Fig. 8](#)). If there is a heating demand, the boiler will start up.


The boiler will not start up if the ambient thermostat (optional) is not in the demand position. The temperature will increase until the maximum temperature selected is reached.

Domestic Hot Water

Turn the DHW dial (3) to the temperature required (See [Fig. 9](#)). If there is a hot water demand at any tap, the boiler will start up.


The temperature will increase until the maximum temperature selected is reached.

Summer: Domestic Hot Water

Check that the cock (15) is open. During this period, it is recommended that cocks (12) and (16) be closed. See [Figure 2](#). Turn the dial (1) to the  position (See [Fig. 10](#)). The boiler is now programmed to provide only Domestic Hot Water. Turn the DHW dial (3) to the temperature required. If there is a hot water demand at any tap, the boiler will start up.

The temperature will increase until the maximum temperature selected is reached.

Stop

The service programmed may be cancelled by turning the dial (1) to the  position. See [Figure 11](#).

At this position, a permanent protection system is activated to guard against circulator lock-out and against freezing (see "Permanent protection" section).

In order to resume the service, turn the dial (1) as desired. If you wish to extinguish the pilot flame, close off the gas cock (14). See [Figure 2](#).

Cleaning

In order to clean the filter at the cold water intake, proceed as follows (see [Figs. 12](#) and [13](#)): Close the mains stopcock (19).

Open a hot water tap to release pressure from the circuit.

Using a size 16-17 spanner or a monkey wrench, unscrew the cold water intake unit (15) in an anticlockwise direction. When removing the unit, the filter will come out. Clean it.


Once it is clean, reassemble the unit by following the steps described in reverse order.

Finally, to bleed any air that has entered the system, unscrew the air vent (13) until water comes out. Close it again.

Maintenance

Must be performed once a year by specialized personnel.

Permanent protection

When the dial (1) is left at  (See [Fig. 11](#)), and independently of any conventional protection systems, a permanent protection system will operate on the circulator and burners, giving the following services:

Antilock-out

It activates the circulator for 15 seconds every 6 hours.

Anti-inertia

Following every heating service, the circulator continues to operate for 30 seconds.

Antifreeze

If the temperature of the heating circuit falls to 7°C, the circulator is activated until it rises to 9°C.

Super antifreeze

If the temperature of the heating circuit falls to 5°C in extreme conditions, the programme activates not only the circulator, but also the ignition system, at the minimum output. The burners will go out after 30 minutes or when the temperature rises to 35°C.

Recommendations

It is recommended that professional services be hired for the following operations:

Start-up of the boiler

Adjustments.

Verification that the air inlets and ventilation of the premises where the boiler is installed comply with regulations.

If the boiler receives no electrical supply, the permanent protection system will not be activated. In this case, the boiler will need to be insulated and emptied to avoid the risk of freezing. Proceed as follows:

Close the mains water stopcock (19), and the flow (12) and return (16) valves of the heating circuit. See [Figure 2](#).

Open a hot water tap. Open the hot water (13 and 15) and heating (18) drain cocks.

Activate the safety valve (11) by turning it through 90°C.

Smoke evacuation safety

The B11BS boiler is equipped with a device for controlling the evacuation of combustion products. If the boiler observes any disturbance in the evacuation of the said products, the red lock-out pilot lamp (10) will light up. See [Figure 1](#).

If the interruption is only momentary, the boiler will start up again automatically once the recovery time has elapsed. If, however, the interruption is permanent, the installer or the nearest After-Sales service office must be contacted to correct this fault.

CE Marking

Roca wall-mounted gas boilers conform to European Directive 89/336/EEC on Electromagnetic Compatibility and European Directive 90/396/EEC on Gas Appliances, European Directive 73/23/ECC on Low Voltage, and European Directive 92/42/CEE on Performance.