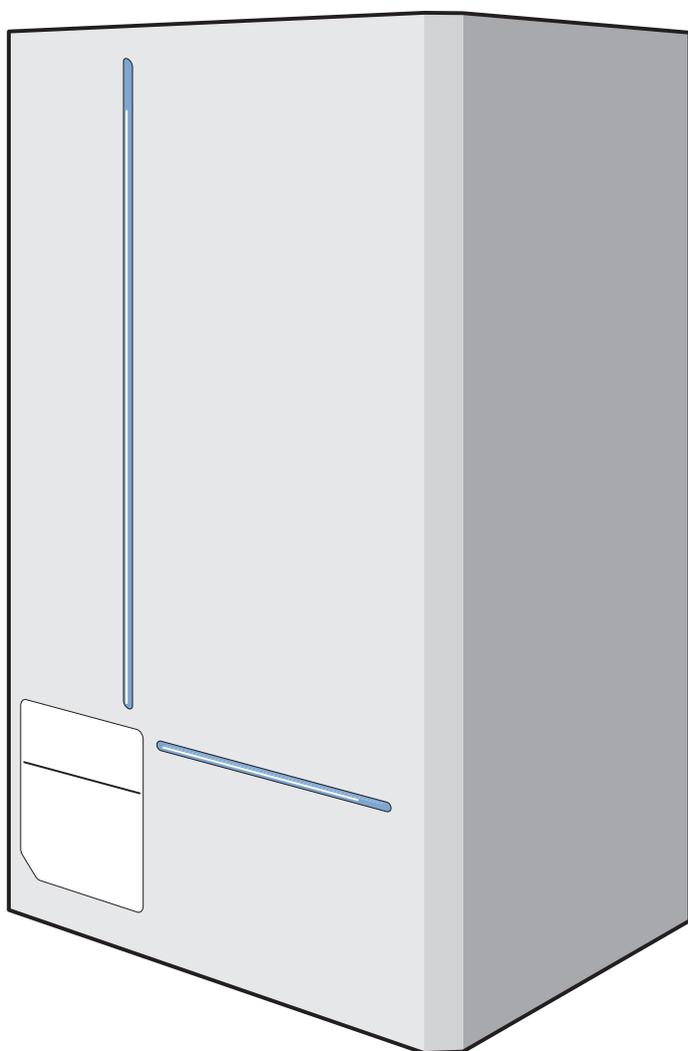


Users manual

**Wall-mounted condensing gas boiler
Buderus 600 - 11R / 19R / 24R**



Buderus

1 Introduction

Dear Customer,

Your Buderus **600 Series** wall-mounted condensing gas boiler has been designed and built in accordance with state-of-the-art technological standards and the recognised safety rules. Special focus has been placed on operator convenience in this respect.

Carefully read the safety instructions and operating manual to ensure safe, economic and ecologically beneficial use of the unit.

Due to the high efficiency of the boiler a plume of water vapour may form at the terminal during operation. This is normal.

Important general instructions for use

This device should only be used for its intended purpose and in accordance with the operating instructions. It is the law and in your own interest, and that of safety that this boiler must be installed by a CORGI registered installer, in accordance with the relevant requirements of the current Gas Safety (Installation and Use) Regulations, The Building Regulations, current I.E.E. Wiring Regulations and the relevant British Standard Codes of Practice.

The device may only be used in combination with the units, accessories and spare parts listed in the installation and servicing instructions.

Other combinations of units, accessories and consumables are only to be used if they completely fulfil the specifications involved, and if system performance and safety are not affected in any way.

Subject to technical modifications

As a result of our policy of constant development, there may be small differences with respect to illustrations, functional steps and technical data.

G. C. Appliance No. :

Buderus 600 - 11R	41-110-21
Buderus 600 - 19R	41-110-22
Buderus 600 - 24R	41-110-23

2 Safety precautions



DANGER!

If you smell gas:

1. **No naked flames ! Do not smoke !**
2. **Avoid sparks ! Do not operate electrical switches. Do not use the telephone, plug-in devices of any kind or the doorbell!**
3. **Shut off the main gas supply!**
4. **Open windows and doors!**
5. **Warn building occupants and evacuate the building!**
6. **Call TRANSCO (under 'GAS' in the telephone directory) from outside the building!**



NOTE

In the event of any other type of incident, shut off the main gas supply and electricity to the appliance and seek assistance from a CORGI registered engineer.

3 Installation area / boiler room



DANGER!

The air intake and outlet openings must not be reduced in size or closed.



DANGER!

Do not store or use inflammable materials or liquids near the heating boiler.



NOTE

To prevent the boiler from being damaged, care must be taken not to contaminate the combustion air with halogenated hydrocarbons (e. g. contained in aerosol sprays, solvents, detergents, paints, and adhesives), or with high quantities of dust. The room in which the boiler is installed must be frost-proof and be well ventilated. This appliance must not be operated without the casing fitted and forming an adequate seal. If the boiler is installed in a compartment then the compartment must not be used for storage purposes.

4 Working in the heating system



DANGER !

Only a CORGI registered Engineer is to be entrusted with the installation of this boiler, the gas supply and the flue connection. Commissioning, Servicing and any Repairs must be carried out by a competent person ie: a CORGI Registered Engineer. All CORGI Registered Installers carry a CORGI identification card and have a registration number. Both should be recorded in your boiler logbook. You can check if your installer/engineer is registered by telephoning 01256 372300 or by writing to:
CORGI, 1 Elmwood, Chineham Business Park, Crockford Lane, Basingstoke. RG24 8WG



NOTE

It is mandatory to clean and service the system once a year ! This includes an inspection of the entire system to see if it is in full working order. Any faults and defects found in the course of inspection must be rectified immediately.

It is recommended to enter into a service contract with a specialist company.

5 Electricity supply

This boiler must be earthed.

A mains supply of 230 V - 50Hz is required.

Connection must be made in a way that allows complete isolation of the electrical supply such as a double pole switch, having a 3 mm 1/8") contact separation in both poles, serving only the boiler and system controls. Alternatively, a 3-pin unswitched socket may be used. The means of isolation must be accessible to the user after installation.

6 Functions of the system and operating instructions

The installer should familiarize the user with the functions and operation of the heating system and ensure that a complete set of technical documentation is supplied.

7 Maintenance

The appliance should be serviced at least once a year by a CORGI registered installer.

8 Cleaning

For normal cleaning simply dust with a dry cloth.

To remove stubborn marks and stains, wipe with a damp cloth and finish off with a dry cloth.

DO NOT use abrasive cleaning materials.

9 Initial start-up

9.1 Operation of the boiler

9.1.1 Access to the control unit

- Press the window to open the access panel of the control unit see fig 1.

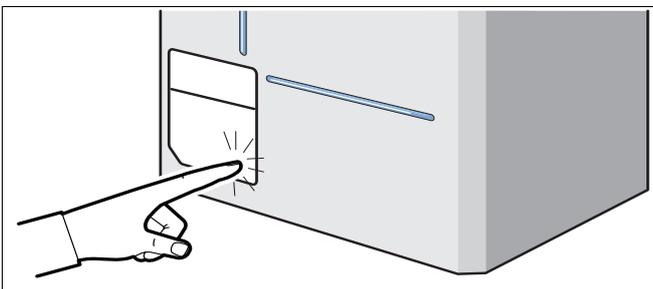


Fig. 1 Open the window of control unit

9.1.2 Lighting and shutting down the boiler.

- Press the mains switch (see fig 2, item 1) on the control unit to "I" to light the boiler.
- Press the mains switch to "0" to shut down the boiler.

9.1.3 Frost hazard

In the event of any risk of the heating system freezing up, you must keep the pump switched on.

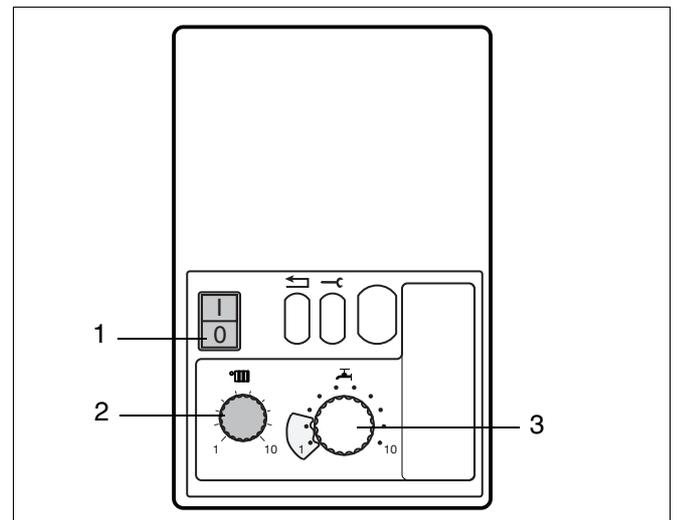


Fig. 2 Control panel

9.1.4 Temperature-setting adjustments

- Set flow temperature at the control unit (fig. 2, item 2) (see table 1).
- Adjust room temperature to maximum setting at the control unit.
- Push the mains power switch (fig. 2, item 1) to "I". The boiler runs through the start-up programme and the burner is ignited after approx. 30 seconds.
- Adjust room temperature to desired setting at the control unit.



NOTE

Knob pos. 3 in fig. 2 is used for service purposes only.

Control unit	Range of application	Controller position / boiler flow temperature
230 V temperature controller	Floor heating Radiator heating	3 (48 °C, max. factory-adjusted setting for floor heating) 7 (67 °C, min. factory-adjusted setting for radiator heating)
ON/OFF temperature controller, 24 V	Radiator heating	5 (58 °C, new building) up to 10 (80 °C, old building)*

* Basic setting: Have the specific system settings of the Buderus control system and burner-control unit control panel adjusted by a specialist heating system company.

Table 1 Flow temperature

Operating Instructions

9.2 Operational and fault codes (table 2)

Operating conditions and possible faults are shown on the display (fig. 3, item 3). The codes consists of two characters. Press the Service button (fig. 3, item 2) to display the second character.

- All codes not contained in table 2 should be noted down separately. These are malfunctions that require the presence of a specialist technician.

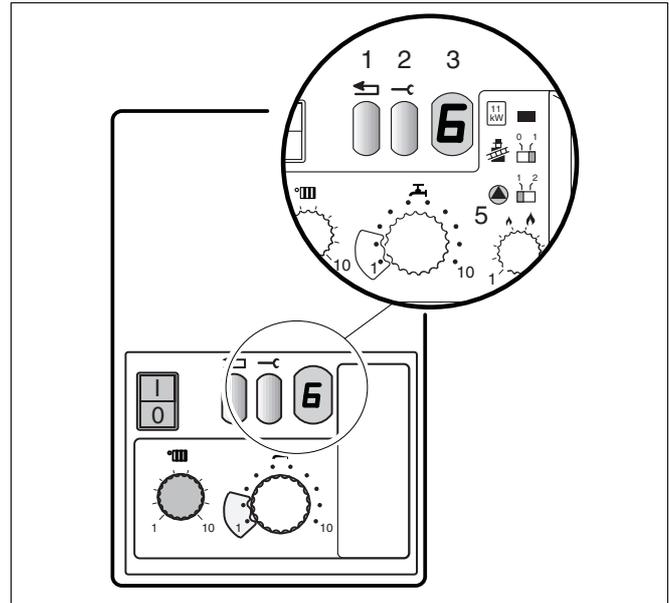
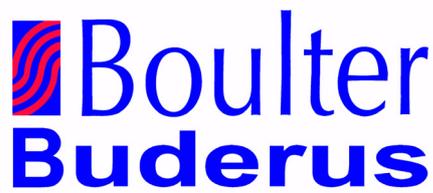


Fig. 3 Operational and fault codes

Display	Display after pressing the service button	Meaning	Rectification
□	R, H, L, P, U, Y	Boiler is ready for operation	
E*	R	Burner not ignited	Press reset button (fig. 3, item 1). If the burner fails to ignite after several unblocking operations, consult a specialist company.
-.	H	Normal heating mode	

* Flashing after three start-up attempts.

Table 2 Operational and fault codes



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