



Gas boiler

Gaz 6000 W

WBN 6000-30-H-E-N/L-S2400



BOSCH

Operating instructions for the end customer

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1 Key to symbols and safety instructions

1.1 Key to symbols

Warnings



Warnings in this document are identified by a warning triangle printed against a grey background. Keywords at the start of a warning indicate the type and seriousness of the ensuing risk if measures to prevent the risk are not taken.

The following keywords are defined and can be used in this document:

- **NOTICE** indicates a situation that could result in damage to property or equipment.
- **CAUTION** indicates a situation that could result in minor to medium injury.
- **WARNING** indicates a situation that could result in severe injury or death.
- **DANGER** indicates a situation that will result in severe injury or death.

Important information



This symbol indicates important information where there is no risk to people or property.

Additional symbols

Symbol	Explanation
▶	Step in an action sequence
→	Cross-reference to another part of the document
•	List entry
-	List entry (second level)

Table 1

1.2 General safety instructions

These operating instructions are intended for the user of the heating system.

- ▶ Read any operating instructions (boiler, heating controls, etc.) carefully before operation and keep them.
- ▶ Observe the safety instructions and warnings.

If you smell gas

A gas leak could potentially cause an explosion. If you smell gas, observe the following rules.

- ▶ Prevent flames or sparks:
 - Do not smoke, use a lighter or strike matches.
 - Do not operate any electrical switches or unplug any equipment.
 - Do not use the telephone or ring doorbells.
- ▶ Turn off the gas at the meter.
- ▶ Open windows and doors.
- ▶ Warn your neighbours and leave the building.
- ▶ Prevent anyone from entering the building.
- ▶ Well away from the building: call the fire brigade, police and gas supplier.

Intended use

This boiler must only be used as a heat appliance in a sealed hot water heating system for domestic purposes.

Any other use is considered inappropriate. Any damage that results from such use is excluded from liability.

Safety of electrical appliances for domestic use and similar purposes

The following requirements apply in accordance with EN 60335-1 in order to prevent hazards from occurring when using electrical appliances:

“This device can be used by children of 8 years and up as well and by people with reduced physical, sensory or mental capabilities or lacking in experience and knowledge, if they are supervised and have been given instruction in the safe use of the device and understand the resulting dangers. Children must not play with the device. Cleaning and user maintenance may not be performed by children without supervision”

“If the power supply cable is damaged, in order to avoid risks it must be replaced by the manufacturer or its customer service department or a similarly qualified person.”

Inspection and servicing

Regular inspection and maintenance are prerequisites for safe and environmentally compatible operation of the heating system.

We recommend you enter into a contract for the annual inspection and demand-dependent servicing with an authorised contractor.

- ▶ Have any work carried out only by an authorised contractor.
- ▶ If any faults are discovered, have them remedied immediately.

Modifications and repairs

Unprofessional modifications to the boiler or other parts of the heating system can result in injury and/or damage to property or equipment.

- ▶ Have any work carried out only by an authorised contractor.
- ▶ Do not remove the boiler case.
- ▶ Do not modify the boiler or other parts of the heating system in any way.

Open flue operation

The installation room must be adequately ventilated if the appliance draws its combustion air from the room.

- ▶ Consult an authorised contractor to ensure the ventilation requirements are met:
 - if structural modifications are made (e.g. replacing windows and doors)
 - if appliances are subsequently installed which route extract air to the outside (e.g. extract air fans, kitchen fans or air conditioning units).
- ▶ Never cover or reduce the size of ventilation apertures in doors, windows and walls.

Combustion air/room air

The air in the installation room must be free of combustible or chemically aggressive substances.

- ▶ Do not use or store combustible or explosive materials (paper, propellants, thinners, paints, etc.) within the vicinity of the appliance.
- ▶ Do not use or store corrosive substances (solvents, adhesives, chlorinated cleaning agents, etc.) within the vicinity of the appliance.

2 Product details

WBN 6000-30-H-E-N/L-S2400 are appliances for central heating.

2.1 Standard delivery

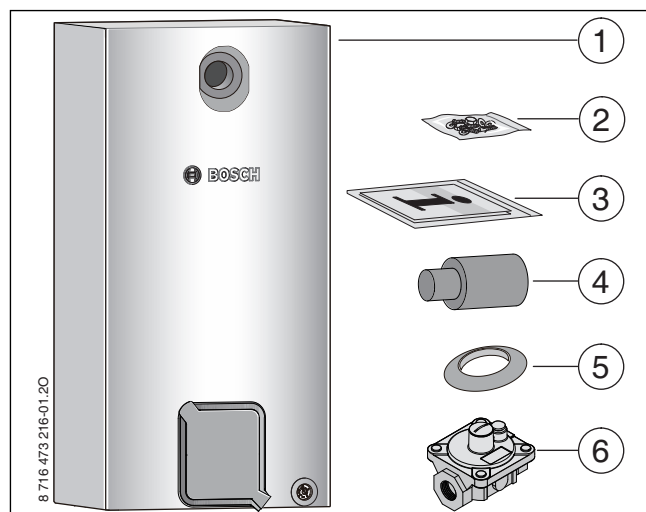


Fig. 1

- [1] Wall-mounted gas boiler
- [2] Fixing material
- [3] Set of printed documents for the appliance
- [4] Flue pipe
- [5] Grommet
- [6] Regulator (Only for NG appliance)

3 Preparing the appliance for use

3.1 Overview of connections

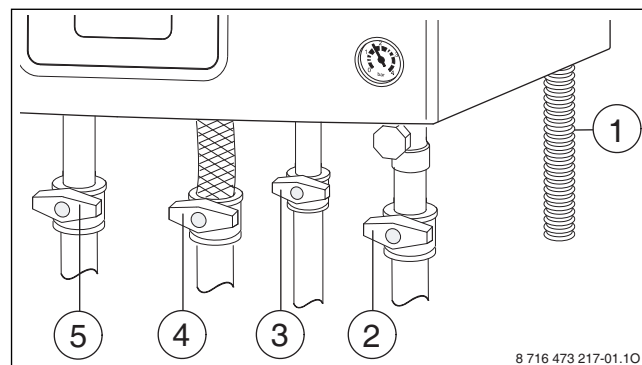


Fig. 2

- [1] Drain hose
- [2] Heating return valve (accessory)
- [3] Cold water valve (accessory)
- [4] Gas valve (closed) (accessory)
- [5] Heating flow valve (accessory)

3.2 Opening service valves

- ▶ Push in the handle and turn it fully anti-clockwise (the gas tap is open when the handle is in line with the flow).

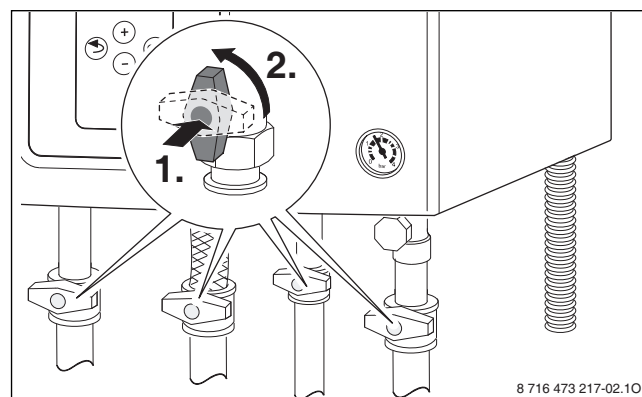


Fig. 3

3.3 Check the central heating system pressure

The standard operating pressure is 1 - 2 bar.

Should a higher operating pressure be required, refer to your heating contractor.

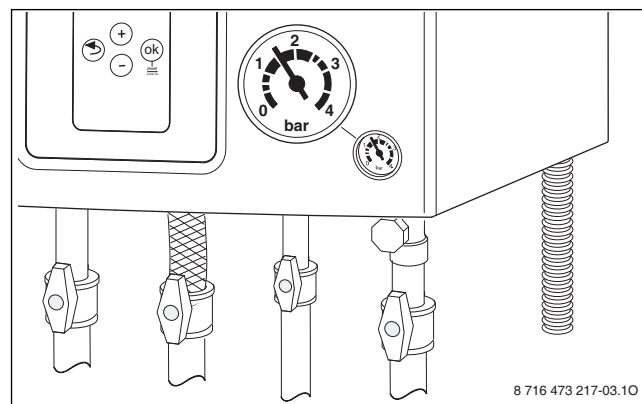


Fig. 4

3.4 Top up the heating system

The filling unit is located at the bottom of the appliance between the connection for the heating flow and the cold water connection.



NOTICE: Damage to appliance due to cold water!

Stress cracks can occur on the hot heat exchanger when the heating water is topped up.

- ▶ Only top up the heating water when the appliance is cold.

Maximum pressure of 3 bar at maximum heating water temperature must not be exceeded (safety valve will open).

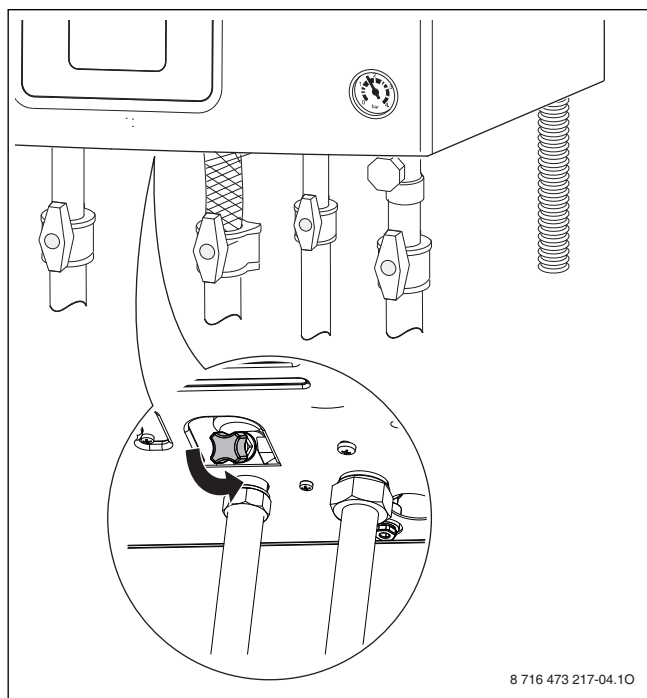


Fig. 5

- ▶ Open the fill valve and fill the heating system until a pressure between 1 and 2 bar is indicated on the pressure gauge.
- ▶ Close the fill valve.

4 Operation

4.1 Overview of controls

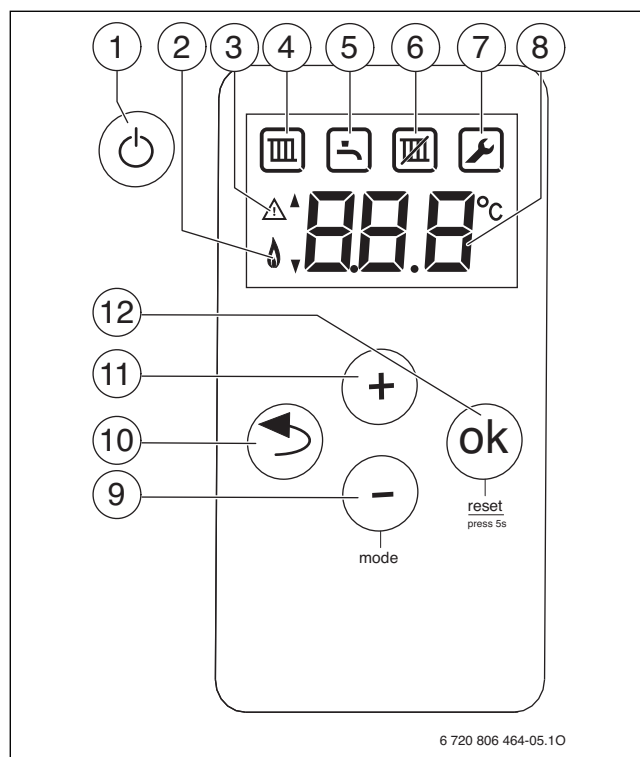


Fig. 6

- [1] Standby key
- [2] Burner operation
- [3] Fault display/standby mode display
- [4] Heating mode active
- [5] DHW heating active (N.A)
- [6] Summer mode active
- [7] Service Mode
- [8] Temperature display (in °C)
- [9] – key (mode)
- [10] “Back” key (= exit service function/submenu without saving)
- [11] + key
- [12] OK button (= confirm selection, save value)

4.2 Switching the appliance on/off

Switching on

- ▶ Start the appliance at the standby key.
The display shows the heating water flow temperature.

Switching off/standby mode

- ▶ Shut down the appliance at the standby key.
Only the warning symbol continues to be displayed.

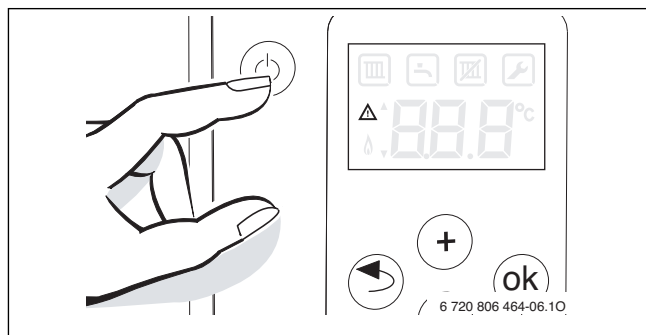


Fig. 7

- ▶ If the appliance is to be switched off for a longer period of time: observe correct frost protection procedures (→ chapter 4.6).

Power interruption



- ▶ Press and hold on OK button to reset the appliance when a fault code (eg.EA) flashes because of power interruption.



The appliance has an anti-seizing function which prevents the heating circuit pump and the 3-way valve seizing up following long periods of inactivity. The anti-seizing function remains active during standby mode.

4.3 Setting the maximum flow temperature


The maximum flow temperature can be set between 40 °C and approx. 82 °C. The current flow temperature is shown on the display.



- ▶ Keep pressing  until the  symbol appears on the display.
- ▶ Press OK.
The set maximum flow temperature is displayed.
- ▶ Press + and - to set the required maximum flow temperature.
- ▶ Press OK to save the setting.

The display shows the current flow temperature.

You can find typical maximum flow temperatures in tab. 2.



When  is set, heating mode is disabled (summer mode).

When the burner is active in heating mode, the  symbol and the  burner symbol appear on the display.


Flow temperature	Sample application
 symbol appears	Summer mode
Approx. 75 °C	Radiator heating system
approx. 82 °C	Convector heating system

Table 2 Maximum flow temperature

4.4 Setting the heating control unit



Observe the operating instructions of the heating controller. This shows you:

- ▶ how to adjust the room temperature,
- ▶ how to heat economically and save energy.

4.5 Setting summer mode






The heating circuit pump and consequently central heating are switched off. Power supply for the heating control unit and timer are retained.



NOTICE: Heating system at risk through frost. In summer mode, only the appliance is protected against frost.

- ▶ Observe frost protection measures where there is a risk of frost (→ Chapter 4.6).

To set summer mode:

- ▶ Keep pressing  until the  symbol appears on the display.
- ▶ Press OK.
The set maximum flow temperature is displayed.
- ▶ Keep pressing  until  appears on the display.
- ▶ Press OK to save the setting.
 is permanently displayed.

Additional instructions are contained in the operating instructions for the heating programmer.

4.6 Setting frost protection

Frost protection for the heating system:

Frost protection for the heating system is only ensured if the heating circuit pump is operational and is pumping heating water through the entire system.

- ▶ Leave the heating switched on.
- ▶ Set the maximum flow temperature to at least 40 °C (→ Chapter 4.3).
- or- If you want to leave the appliance switched off:
- ▶ Ask your heating contractor to mix anti-freeze (see installation instructions) into the heating water.



For further information, see the heating controller operating instructions.

Appliance frost protection:

The appliance frost protection function switches the burner and heating circuit pump on when the temperature falls below 5 °C. This prevents the boiler freezing up.

- ▶ Activate summer mode (→ Chapter 4.5) or put the appliance in standby mode (→ Chapter 4.2).



NOTICE: Heating system at risk through frost. In summer/standby mode, only the appliance is protected against frost.

4.7 Displays




Special display	Description
	Venting function enabled (approx. 2 minutes).
	Summer mode (appliance frost protection)
e.g. EA	Fault code (→ chapter 7)
only 	Standby

Table 3

5 Thermal disinfection

Have thermal disinfection carried out by a contractor (also see the installation instructions).

6 Energy saving tips

Economy mode

The appliance is designed in such a way that gas consumption and environmental pollution is kept to a minimum and comfort is as high as possible. The supply of gas to the burner is regulated in accordance with the home's heat demand. If the heat demand is low, the appliance continues to operate with a small flame. The contractor refers to this process as continuous control. As a result of continuous control, temperature fluctuations are kept low and heat is distributed evenly in the rooms. This may mean that the appliance is in operation for a longer period of time but actually consumes less gas than an appliance that is constantly being switched on and off.

Inspection/Maintenance

To ensure that gas consumption and environmental impact (pollution, etc.) remain as low as possible over an extended period of time, we recommend that you take out an inspection/maintenance contract with an authorised installer covering the annual inspection and servicing and maintenance at other times as required.

Thermostatic valves

Fully open the thermostatic radiator valves in order to achieve the required room temperature. You can only change the required room temperature at the controller when the temperature is not reached after an extended period of time.

Venting

Never leave windows slightly open for ventilation purposes. Otherwise, heat will be constantly discharged from the room without significantly improving the room's air. It is better to fully open windows briefly.



Close the thermostatic radiator valves while airing rooms.

Circulation pump



If there is a circulation pump for hot water, use a timer programme to control its operation according to the specific requirements (e.g. morning, afternoon, evening).

7 Troubleshooting

All safety, modulation and control components are monitored by the Heatronic system.

If a fault occurs during operation, the display shows the  symbol and possibly , and a fault code (e.g. **EA**) flashes.

If  and  appear:

- ▶ Press and hold down OK until the  and  symbols are no longer displayed.

The appliance will start up again and the flow temperature will be displayed.

If only  appears:

- ▶ Switch the appliance first off and then on again by means of the standby key. The appliance will start up again and the flow temperature will be displayed.

If a fault persists:

- ▶ Contact your approved installer or Customer Service for assistance, providing details of the fault and the appliance.



An overview of the display indications can be found on page 5.

Appliance details

If you need to call Customer Services, it is helpful if you have the precise details of your appliance at hand.

Those details can be found on the identification plate or identification sticker inside the control panel cover.

Gaz 6000 W (e.g.. WBN 6000-30-H-E-N/L-S2400).

.....
Series number

.....
Commissioning date:

.....
System contractor:

8 Service

Inspection and service

The user is responsible for the safety and environmental compliance of the heating system.

You should therefore arrange a maintenance and inspection contract with an authorised contractor, covering an annual inspection and demand-dependent maintenance. This guarantees you high efficiency and environmentally compatible combustion.

For service/parts and maintenance in AU please contact 1300 30 70 37. For NZS 0800 54 33 52.

Cleaning the casing

Wipe the casing with a damp cloth. Never use aggressive or corrosive cleaning agents.

9 Environment / disposal

Environmental protection is a fundamental corporate strategy of the Bosch Group.

The quality of our products, their efficiency and environmental safety are all of equal importance to us and all environmental protection legislation and regulations are strictly observed.

We use the best possible technology and materials for protecting the environment taking into account of economic considerations.

Packaging

We participate in the recycling programmes of the countries in which our products are sold to ensure optimum recycling.

All of our packaging materials are environmentally friendly and can be recycled.

Used appliances

Used appliances contain valuable materials that should be recycled.

The various assemblies can be easily dismantled and synthetic materials are marked accordingly. Assemblies can therefore be sorted by composition and passed on for recycling or disposal.

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