



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

Instructions for the target group

These operating instructions are intended for the heating system user. All instructions must be observed. Failure to comply with instructions may result in material damage and personal injury, including possible loss of life.

- ▶ Read and retain the operating instructions (heat source, heating controller, etc.) prior to operation.
- ▶ Observe safety instructions and warnings.

Determined use

The product may only be used for the heating of central heating water and for DHW heating in closed-loop DHW and heating systems.

Any other use is considered inappropriate. Any damage that may result is excluded from liability.

If you smell gas

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

- ▶ Avoid producing flames or sparks:
 - Do not smoke, do not 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 supply at the main shut-off valve or at the gas meter.
- ▶ Open windows and doors.
- ▶ Warn your neighbours and leave the building.
- ▶ Prevent anyone from entering the building.
- ▶ Stay well away from the building: call the emergency services and the gas supplier.

Risk to life from poisoning by flue gas

There is a risk to life from escaping flue gas. If flues are damaged or leaking, observe the following rules.

- ▶ Switch off the heat source.
- ▶ Open windows and doors.
- ▶ If necessary, warn your neighbours and leave the building.
- ▶ Prevent anyone from entering the building.
- ▶ Notify an approved contractor.
- ▶ Have any defects rectified immediately.

Inspection and maintenance

If there is a lack of cleaning, inspection or maintenance, or if these are carried out incorrectly, this may result in material damage and/or personal injury, including possible loss of life.

- ▶ All work must be carried out by an approved contractor.
- ▶ Have any defects rectified immediately.
- ▶ Have the heating system inspected once a year by an approved contractor, and have any required maintenance or cleaning work carried out.
- ▶ Have the heat source cleaned at least every two years.

Conversion and repairs

Improper modifications to the heat source or other parts of the heating system can result in personal injury and/or material damage.

- ▶ All work must be carried out by an approved contractor.
- ▶ Never remove the casing of the heat source.
- ▶ Never carry out any modifications to the heat source or to other parts of the heating system.
- ▶ Never close the outlet of the pressure relief valves. Heating systems with DHW cylinder: During heat-up, water can escape from the pressure relief valve of the DHW cylinder.

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 appliance can be used by children of 8 years and older, as well as 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 appliance and understand the resulting dangers. Children must not play with the appliance. Cleaning and user maintenance must not be performed by children without supervision.”

“If the power cable is damaged, it must be replaced by the manufacturer, its customer service department or a similarly qualified person, so that risks are avoided.”

2 Product details

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

2.1 Standard delivery

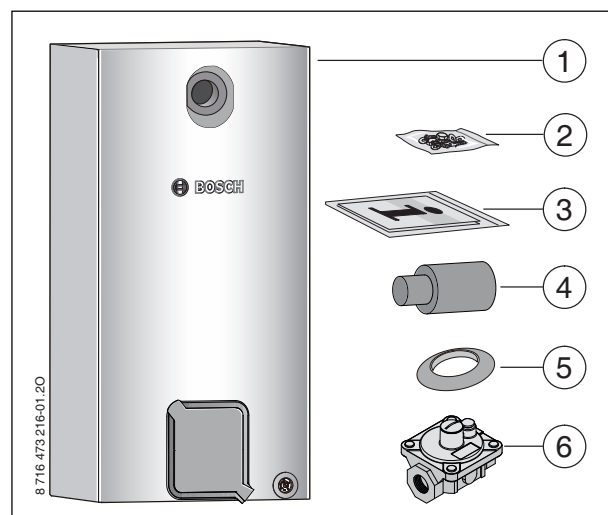


Fig. 1

- [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

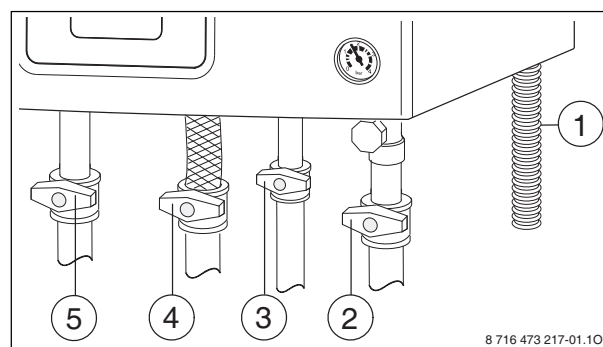


Fig. 2

- [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).

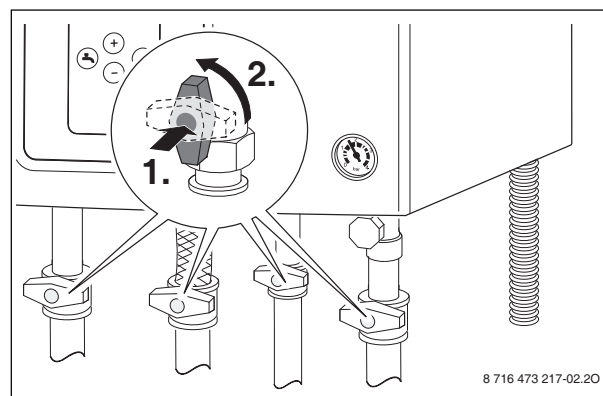


Fig. 3

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.

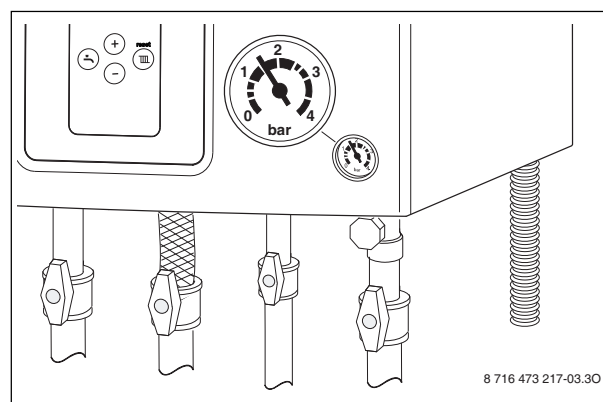


Fig. 4

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).

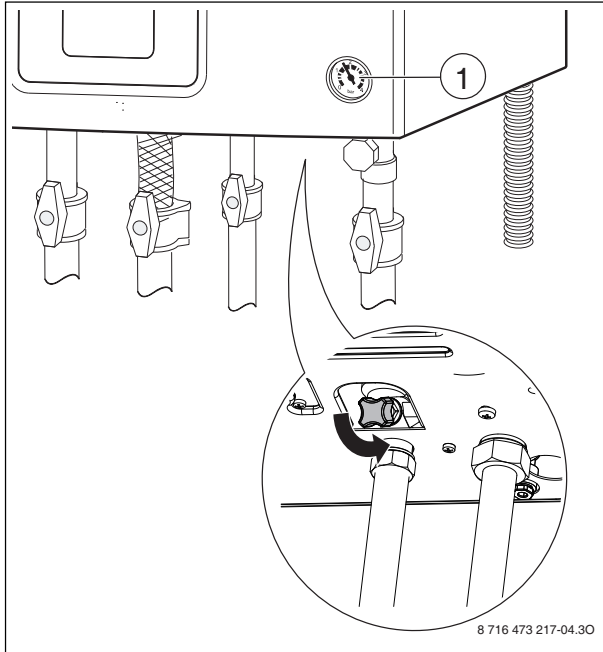


Fig. 5

[1] Pressure gauge

- ▶ 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

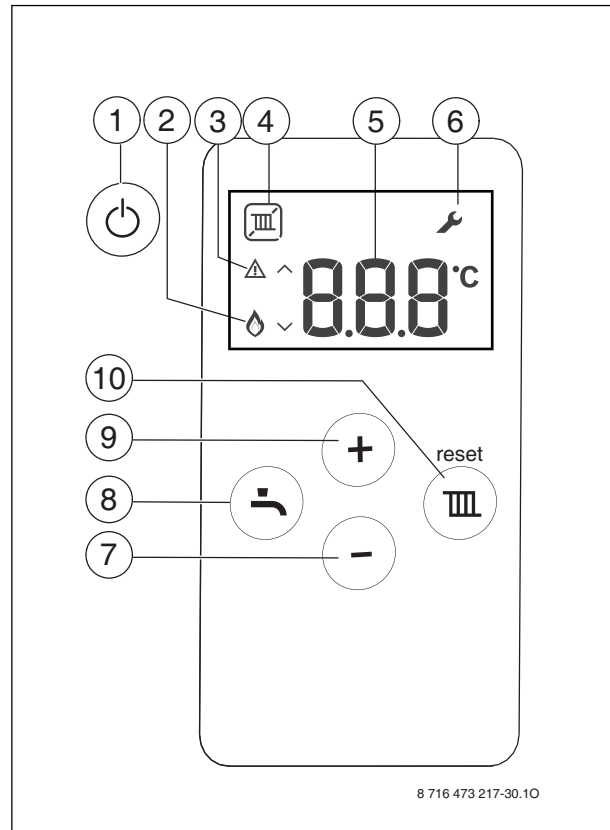


Fig. 6

- [1] Standby key
- [2] Burner operation
- [3] Fault display/standby mode display
- [4] Heating mode active
- [5] Temperature display (in °C)
- [6] Service mode
- [7] key (mode)
- [8] Return
- [9] key
- [10] Heating Temperature/Reset/"OK"

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.

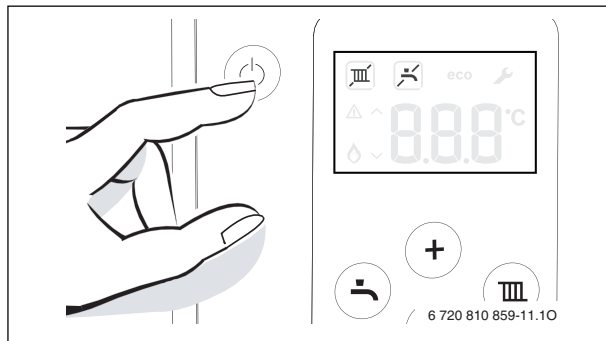


Fig. 7

- ▶ 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 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.

- ▶ Press temperature display with 1 Hz frequency flickering.
- ▶ Press or to set the required maximum flow temperature.
- ▶ After 3 times flickering, the setting temperature is saved automatically, display goes back to central heating
The display shows the current flow temperature.
- ▶ Central heating active indicator .

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	Convecter heating system
Approx. 50 °C	Underfloor heating system

Table 2 Maximum flow temperature

4.4 Setting the heating control unit or room thermostat



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

- ▶ how to adjust the room temperature,
- ▶ how to heat economically and save energy.
- ▶ The recommended room thermostats are the Bosch OR30 or Bosch OR80.

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:

- ▶ Press temperature display with 1 Hz frequency flickering.
- ▶ Keep pressing until “-” symbol appears on the display.
- ▶ After 3 times flicking of “-”, active summer mode.
The display shows central heating temperature.
- ▶ Summer mode start indicator .

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 6)
only 	Standby

Table 3

5 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

Do not leave windows open for ventilation purposes as this will allow heat to be discharged from the room without significantly improving the air quality.



It is preferable to fully open the windows for a short period of time to air the room completely and then shut them again to maintain temperature.

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).

6 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  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.
- ▶ For service and maintenance issues please contact the following numbers:
 - Australia :1300 30 70 37.
 - New Zealand :0800 54 33 52.



An overview of the display indications can be found on page 6.

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:

7 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 and maintenance issues please contact the following numbers:

Australia :1300 30 70 37.

New Zealand :0800 54 33 52.

Cleaning the casing

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

8 Environmental protection / disposal

Environmental protection is a key commitment of the Bosch Group. Quality of products, efficiency and environmental protection are equally important objectives for us. Environmental protection laws and regulations are strictly adhered to.

To protect the environment, we use the best possible technology and materials taking into account economic points of view.

Packaging

Where packaging is concerned, we participate in country-specific recycling processes that ensure optimum recycling. All of our packaging materials are environmentally compatible and can be recycled.

Old appliances

Old appliances contain materials that must be recycled.

The relevant assemblies are easy to separate, and all plastics are identified. In this way the individual assemblies can be easily sorted and directed to recycling or disposal.

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