



**GB**  
**IE**

Operating instructions for users

## **WALL MOUNTED GAS CONDENSING BOILER**

FGB wall mounted gas condensing boiler

FGB-K wall mounted gas condensing combi boiler

English | Subject to technical modifications

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# Safety instructions

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## 1 Safety instructions

### General information

Gas is an environmentally-friendly fuel which does not pose a risk unless handled with gross negligence. Your gas condensing boiler is a high-quality product which incorporates the latest safety technology.



**These safety instructions are intended to protect you from potential risks.**



**Risk to life!**

Non-observance of information labelled in this way can **endanger health and cause material damage**.



**When there is a risk of fire**

- Immediately switch OFF the emergency stop switch of the heating system (if outside the installation room).
- Close the gas shut-off valve.
- In the event of a fire, use a suitable fire extinguisher (class B to DIN 14406).



**Caution – risk of electrocution.**

This appliance may be used by children aged from 8 years and above and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning how to use the appliance in a safe manner and understand the hazards involved. Children must not play with the appliance. Cleaning and user maintenance must not be performed by children without supervision.

# Safety instructions

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## Electrical connection



The installation must be carried out by an approved electrical contractor. Observe VDE regulations as well as all local regulations of your power supply utility.



Danger due to 'live' electrical components.

**Please note:**

**Switch OFF the omnipolar isolator before removing the casing.**

**Never touch electrical components or contacts when the isolator is in the ON position. This carries a risk of electrocution that could result in injury or death.**

**No mains isolator on the appliance. When working on the boiler, always ensure that there is no voltage by opening the omnipolar isolator or removing the external mains fuse.**

## Shutting down the heating system

- Switch OFF the heating system at the omnipolar isolator or the external mains fuse of the control unit. Please note: It is not possible to isolate the appliance from the power supply using the operating mode button.
- Close the gas ball valve or the main gas tap.

## Emergency shutdown

**The fuse in the installation room or the heating emergency stop switch may only be used to switch off the heating system in an emergency.**

- In the event of danger, e.g. fire, disconnect the heating system from the power supply using the heating emergency stop switch or the relevant mains fuse.
- Shut off the gas supply using the gas ball valve on the boiler or the main gas tap on the gas meter.

# Safety instructions

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## SAFETY INSTRUCTIONS

### If you smell gas



**Gas ball valve**  
To open: Push and turn anti-clockwise  
To close: Turn clockwise

- Do not switch on any lights.
- Do not operate electrical switches.
- No naked flames.
- Close the gas shut-off valve.
- Open windows and doors.
- Notify your gas supply utility or grid operator; use a telephone outside the danger area.

 **Caution – risk of poisoning, asphyxiation and explosion.**

### If you smell flue gas

- Shut down the system.
- Open windows and doors.
- Notify your local contractor.

 **Caution – risk of poisoning.**

### When changing a fuse

Isolate the appliance from the power supply prior to changing a fuse. The mains terminals are 'live' even when the appliance is in standby mode (OFF).

 **Caution – risk of electrocution.**

### Frost protection

The use of antifreeze is not permissible.  
The control unit protects the gas condensing boiler against frost. The risk of frost cannot be totally prevented, e.g. during longer power failures. Therefore install the gas condensing boiler only in rooms that are free from the risk of frost. Should there be a risk of frost during longer idle periods when the heating system is switched off, ask your local heating contractor to drain the condensing boiler and the heating system to prevent pipes from bursting.

 **Caution – risk of water damage and faulty operation due to freezing.**

### Balanced flue system

With low outside temperatures, the water vapour contained in the flue gas may condense on the balanced flue and freeze. **This ice may fall from the roof, causing personal injury or material losses.** Prevent ice from falling by taking on-site measures, e.g. installing a snow guard.

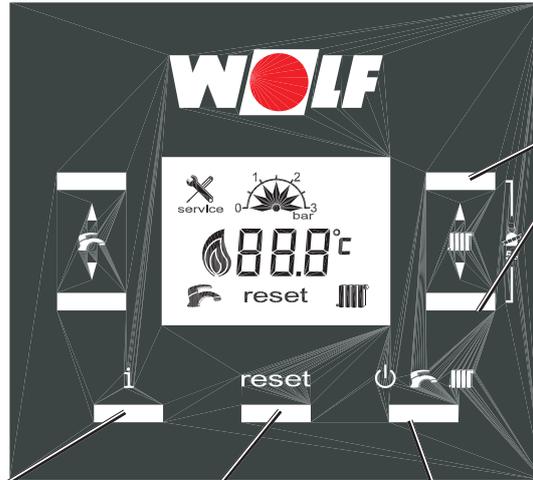
 **Caution – risk of injury.**

# Operation via the control unit

## 2 Operation via the control unit

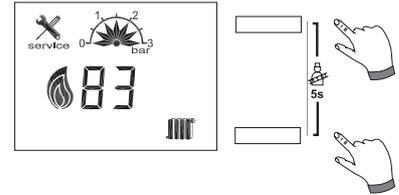
Please note

If the appliance is connected to a BM-2 the setting functions are deactivated. The BM-2 takes over these functions.



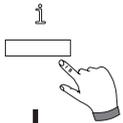
**Emissions test mode**  
(To enable, press and hold buttons simultaneously for 5 s)

- The boiler runs under full load for 15 mins.
- Press "Reset" to disable.

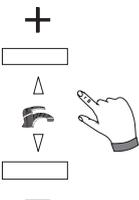


### Display menu

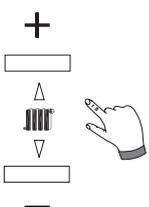
- Display code



- Select code



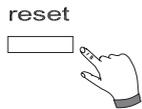
- Display code value



### Reset

- Reset  
(Press 1 x briefly)

- Bring up contractor level (press and hold for 10 s), only for contractors.

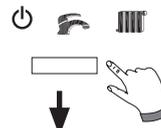


### Operating mode button

Standby (OFF)



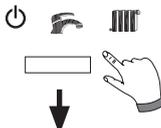
The boiler is switched off, only frost protection is enabled.



Summer mode



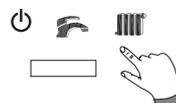
Only DHW heating enabled



Winter mode



Heating and DHW heating enabled

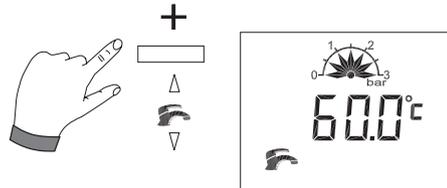


# Operation via the control unit

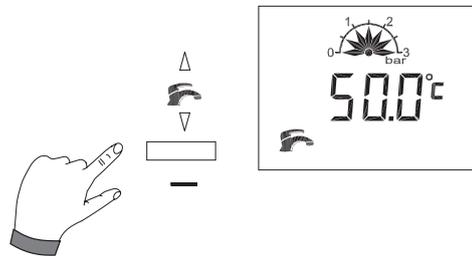
## Set DHW temperature display/adjustment

(After pressing the key, the current value flashes. Press again to change the value. The value is immediately applied and saved.)

DHW temperature hotter



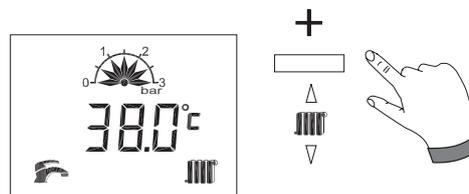
DHW temperature colder



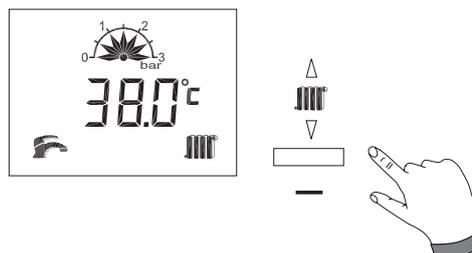
## Set boiler water temperature display/adjustment

(After pressing the key, the current value flashes. Press again to change the value. The value is immediately applied and saved.)

Central heating hotter

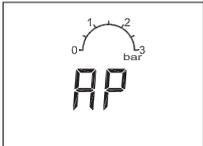


Central heating colder



# Operation via the control unit

## Display

	DHW mode (A flashing symbol indicates an active heat demand for DHW heating.) Only shown if DHW heating is available.
	Heating mode (A flashing symbol indicates an active heat demand for heating operation.) Changes are only possible if the heating curve is disabled.
reset	Shown when there are active fault codes. Reset button (press 1x briefly). Fault codes are reset.
	Display of temperature, fault codes, HG parameters and set values. In emissions test mode, the modulation level is displayed.
	Burner modulating levels
	Service - Emissions test mode enabled. - Fault is displayed.
	Indication of water pressure in the heating system.
	Venting program When switching on the mains power, following a power failure, if the water pressure is below 0.5 bar or if the high limit safety cut-out is reset, the venting program runs for 2 minutes. The gas fan runs for the first 30 s and then stops. The pump and 3-way diverter valve are activated alternately. To cancel, press "reset".

## Display menu

Name	Description	Display in
i00 <sup>1)</sup>	Flow sensor temperature	(°C)
i01	Flow temperature	(°C)
i02	Return sensor temperature	(°C)
i03	DHW sensor temperature	(°C)
i04	DHW solar inlet / DHW cylinder temperature	(°C)
i05	Flue gas sensor temperature	(°C)
i06	Outside temperature	(°C)
i07	Fan speed	(rpm x 60)
i08	PWM pump speed	(%)
i09	DHW flow rate	(l / min)
i10	Actual water pressure	bar
i11	High limit safety cut-out	ON and OFF
i12	Flame current	(µA x 10)
i13	Firmware version	Version x.xx

<sup>1)</sup> from FW 1.10

## Reset

A fault in the heating system is indicated by a fault code and the flashing service symbol.

The specialist contractor can quickly identify the fault via the reset button and with the help of a fault code table.

- **In the event of a fault, please observe the information in the installation instructions for contractors.**
- **If a fault occurs in your heating system, please contact your specialist contractor.**

### Please note:

**Faults must only be repaired by qualified personnel. If a lockout fault message is acknowledged several times without the cause of the problem being repaired, this can lead to component or system damage.**

The control unit automatically acknowledges faults such as faulty temperature sensors or other sensors if the part concerned has been replaced and plausible test values have been supplied.

# Installation / Maintenance

## 3 Installation / Maintenance

### Installation / Modifications

Your gas condensing boiler should only be installed and modified by an approved heating contractor, as only they have the essential knowledge to carry out such work.

- Never modify flue gas components.
- **Never close or restrict the ventilation apertures in doors or walls when operating the boiler in open flue mode; only start the boiler when the flue has been fully installed.**
- **When operating the gas condensing boiler in room sealed operation, only start it when the balanced flue system has been fully installed and the wind protector is not covered.**
- Never modify the drain or the safety valve.



**Caution – failure to observe these instructions may lead to a risk of fire, permanent damage, poisoning or explosion.**



**The installation room and the combustion air supplied to the appliance must be free from chemicals, e.g. fluoride, chlorine or sulphur. Such materials are contained in sprays, paints, adhesives, solvents and cleaning agents. Under unfavourable conditions, these may lead to corrosion, including in the flue system.**



**The appliance is not suitable for outdoor installation.**

### Checking the water pressure in the heating system

Regularly check the water pressure. The pressure must be between 1,5 and 2,0 bar. Your heating contractor will explain how to top up your system. Do not add additives to your heating water, otherwise components may be damaged.

### Care

Only clean the casing with a damp cloth and a mild chlorine-free detergent. To finish, dry off immediately.

### Inspection / Maintenance



**Caution - only a heating contractor has the required knowledge and expertise.**

- According to paragraph 10(3) ENEV, the user is required to have the system serviced regularly to safeguard the reliable and safe function of the gas condensing boiler.
- Your gas condensing boiler should be serviced annually.
- **The system operator is obliged to provide documentation.**
- Isolate the boiler from the power supply before any maintenance work.
- Only use genuine spare parts. Wolf accepts no liability for damage caused by spare parts not supplied by Wolf.
- After a service and before the gas condensing boiler is restarted, check that all components that were removed for maintenance have been refitted correctly.
- We recommend you arrange a maintenance contract with an approved heating contractor.



**Seal the front casing tightly with screws after completing the service. There is a risk of carbon monoxide poisoning if the flue system is faulty.**

# Information for energy efficient operation

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## 4 Information for energy efficient operation

### Heating mode

#### **Saving energy with state of the art heating technology: Gas condensing technology saves money.**

Modern condensing technology also harnesses the energy which in conventional heating systems is expelled unused to the atmosphere, and uses it for heating.

#### **Regular heating system maintenance pays for itself**

A contaminated burner or a poorly adjusted gas condensing boiler can reduce the efficiency of a heating system. Having your system maintained regularly by your local contractor quickly pays for itself.

#### **Heating at the lowest energy level**

Operate your heating system, where possible, with a return temperature of less than 45 °C, to achieve maximum utilisation of condensing technology.

#### **A heating control unit also regulates your heating costs**

A heating system in standby mode saves energy. A modern, weather-compensated or room-temperature-dependent heating control unit with automatic night setback and thermostatic valves ensures that the system only operates when heat is required, saving you money the rest of the time.

- Equip your heating system with a weather-compensated heating controller from the Wolf range of accessories. Your heating contractor will be happy to advise you about the optimum settings.
- In conjunction with Wolf control unit accessories, use the night setback function to match the energy level to the actual period of demand.
- Make use of the summer mode option.

#### **Minimise energy loss by airing sensibly**

Airing a room for hours means the heat stored in walls and objects is lost. As a result, the indoor conditions will only become comfortable again after prolonged heating. Short and thorough airing is more effective and more pleasant.

#### **Bleeding radiators**

Regularly bleed the radiators in every room. This ensures that radiators and thermostats will continue to operate smoothly, particularly in the upper apartments of apartment blocks. The radiator responds quickly to changing heat demands.

### DHW mode

#### **Sensible handling of DHW**

Showering consumes only approx.  $\frac{1}{3}$  of the water volume required for a bath. Repair any dripping taps immediately.

**Keep your operating instructions safe in an easily accessible place near your boiler.**

# Notes

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## 5 Notes



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