

Maintenance instructions

Gas condensing boiler

CGB-75 **Wall mounted boiler**

CGB-100 **Wall mounted boiler**



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For easy maintenance!



The following symbols are used in conjunction with these important instructions concerning personal safety, as well as operational reliability.



"Safety instructions" are instructions with which you must comply exactly, to prevent risks and injuries to individuals and material losses.



Danger through 'live' electrical components!
NB: Switch OFF the ON/OFF switch before removing the casing.

Never touch electrical components or contacts when the ON/OFF switch is in the ON position! This results in a risk of electrocution that may lead to injury or death.

The main supply terminals are 'live' even when the ON/OFF switch is in the OFF position.

NB

"Note" indicates technical instructions that you must observe to prevent material losses and boiler malfunctions.

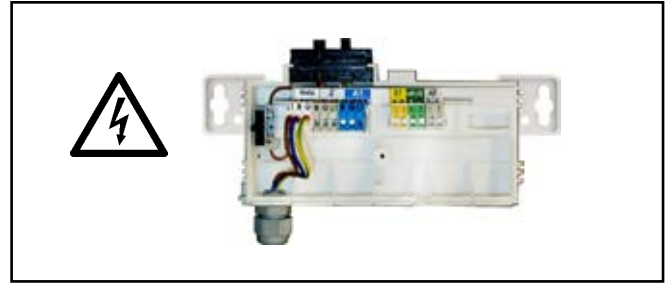


Figure: Terminal box - danger from electrical voltage

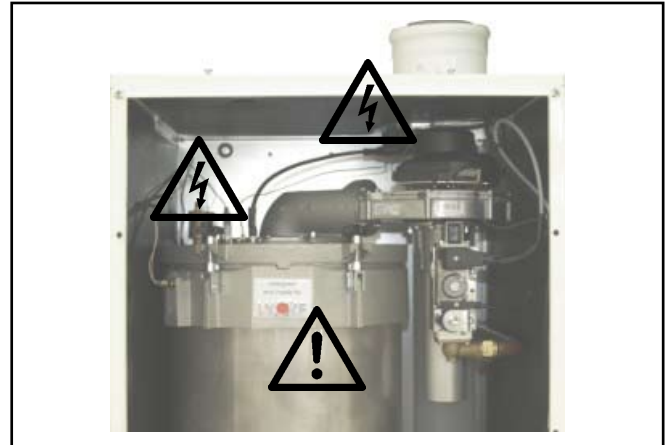


Figure: Ignition transformer, high voltage ignition electrode, heat exchanger

Danger from electrical voltage

Risk of burning from hot components

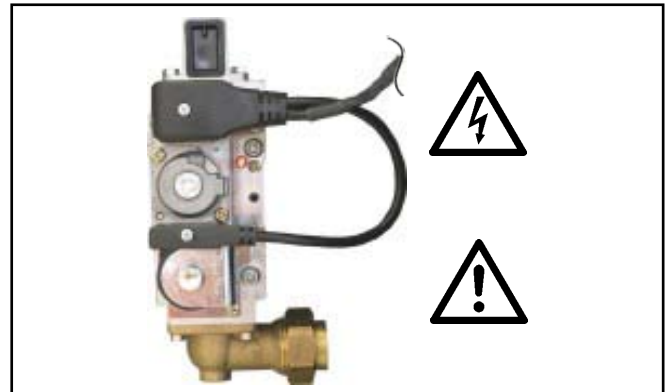


Figure: Gas combination valve

Danger from electrical voltage

Escaping gas may cause poisoning or an explosion

General notes



Maintenance work must only be carried out by a qualified heating contractor. Regular maintenance and the exclusive use of original Wolf spare parts are necessary preconditions for trouble-free operation and a long service life. We therefore recommend you arrange a maintenance contract with a local heating contractor.



Figure: Gas connection

Escaping gas may cause poisoning or an explosion

Pivot the control unit flap down.
Switch OFF the condensing boiler at the ON/OFF switch.



The mains terminals are 'live' even when the ON/OFF switch has been switched OFF.

Disconnect the system from the power supply.



Close the gas tap.



Danger of burning

Leave to cool down for half an hour before beginning maintenance work on the appliance

Undo screws on front casing cover. Release the bottom of the front casing cover and unhook at the top.



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.



Undo screws on upper casing cover (left / right).
Pull the cover forwards slightly and lift off.



Pull out plug:

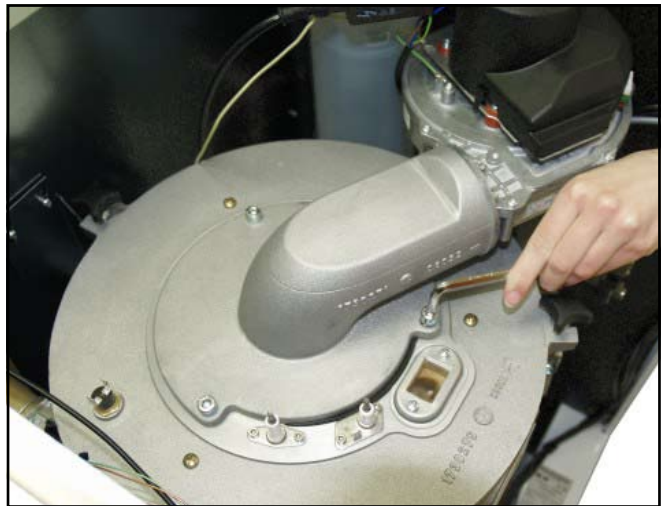
- ① Ignition electrode
- ② Earth conductor
- ③ Monitoring electrode (ionisation)
- ④ Thermostat
- ⑤ Gas fan
- ⑥ Fan variable speed control
- ⑦ Solenoid valve (first undo Phillips head screw)
- ⑧ Modulation coil (first undo Phillips head screw)



Undo gas connection at the gas combination valve.



Undo 6 mm Allen screws (3x) on the heat exchanger cover and the fan manifold. Remove fan with manifold.



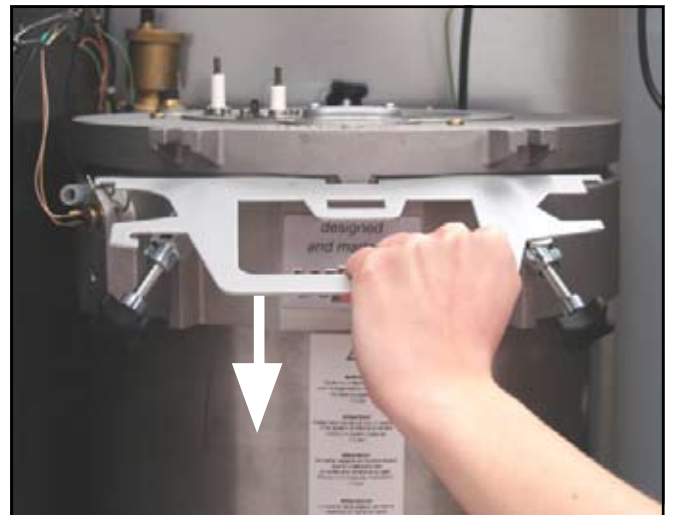
Remove burner gasket and burner, clean burner with a vacuum cleaner or flush with water.



Undo star shaped handles (3x)

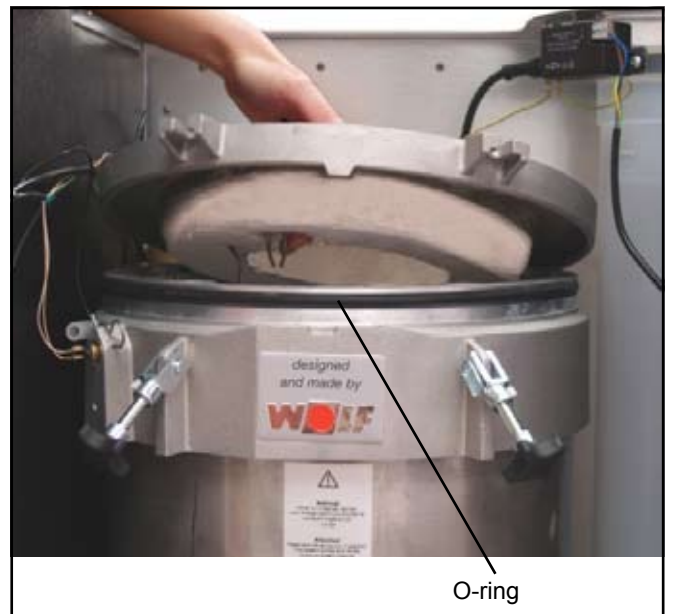


Lift heat exchanger cover using maintenance tool

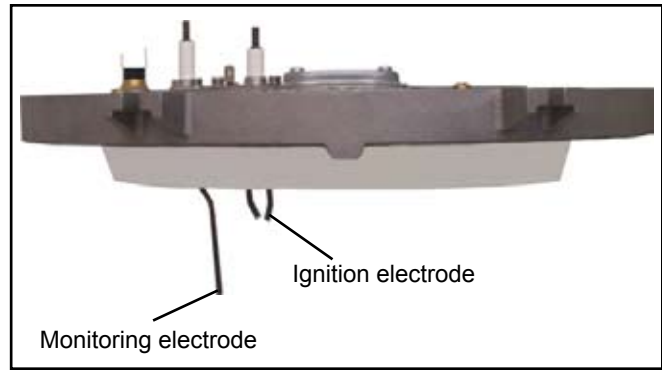


Replace O-ring annually

Remove heat exchanger cover



Replace ignition and monitoring electrodes



Cleaning the heating surface:

Hook the maintenance tool into the combustion chamber and pull out the chamber.

Rotate the maintenance tool 90°, hook into the lifting eye of the first combustion chamber extension and pull out the chamber extension.

Repeat for the second combustion chamber extension.

Clean the heat exchanger with the brush. Clean the condensate pan with a vacuum cleaner or flush with water.



Then clean and refill the siphon.

Assembly

Assembly is carried out in reverse order, observing the following points:

- Before refitting the heat exchanger cover, lubricate the O-ring with silicone grease.
- Check the burner gasket for damage before fitting (replace if necessary) and ensure it is fitted correctly.
- Check gasket at gas combination valve for gas supply, **tighten threaded connection.**

Before restarting:

- Check the system pressure, and top up heating water if required.
- When you notice a loss of water, check the expansion vessel pre-charge pressure and increase it, if required, to 0.75 bar. The heating circuit must be at zero pressure. Fill the system.

Restart / flue gas test

- Reset the MCB
- Open the gas tap
- **Check the gas supply line for leaks**
- Switch ON the boiler
- Set the program selector to emissions test mode

Testing the inlet air



If the $\text{CO}_2 > 0.2\%$, check that there are no leaks in the balanced flue:

Flue gas test

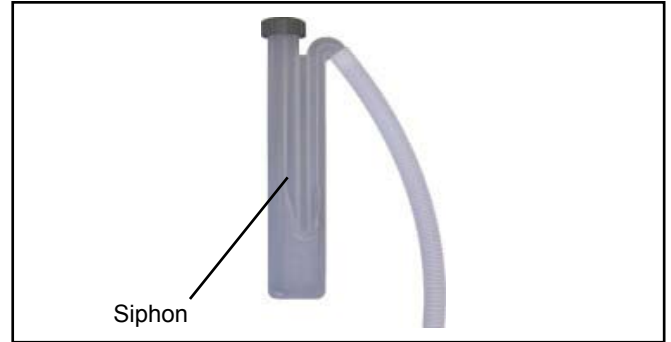
Carry out the test in emissions test mode and enter the values in the maintenance report.

Re-adjust the CO_2 content, if required (see installation instructions).

Leak test on non-return valve in flue gas cascades

Set the first boiler to emissions test mode.
Test the ventilation air at the other boilers in standby mode.
The CO_2 content of the ventilation air must not exceed 0.3% after one minute. Otherwise, check the non-return valve at the fan.

Carry out the same test for the other boilers.



Expansion vessel

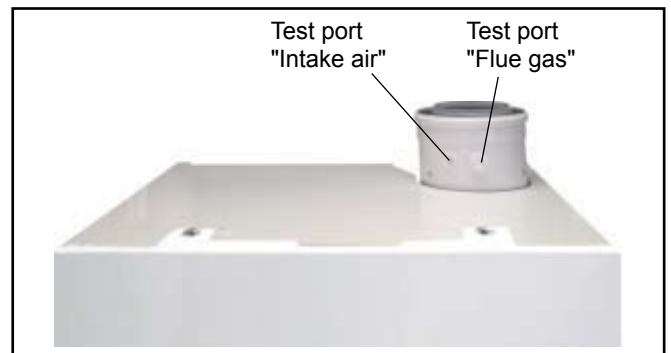
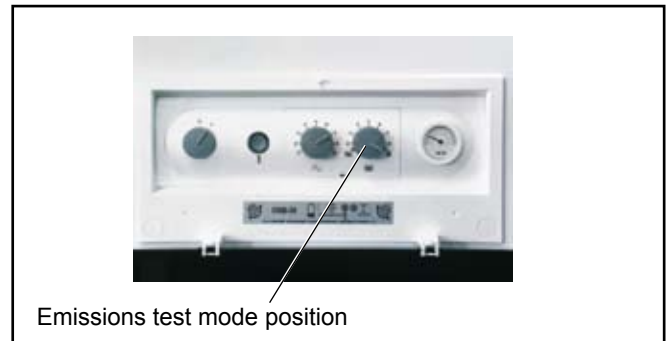


Figure: Flue gas test with a closed boiler

Overview of the steps to be taken and maintenance report

No.	Step	Report item	Report item	Report item
1	Switch OFF the boiler, emergency stop switch is OFF			
2	Close the gas supply valve			
3	Remove the casing and the combustion chamber housing			
4	Unplug the electrical connections from the fan, sensors and electrodes			
5	Remove the combustion chamber lid upwards			
6	Clean the burner, if required	○	○	○
7	Clean the heating water heat exchanger	○	○	○
8	Clean the condensate pan	○	○	○
9	Clean the mixing chamber, if required	○	○	○
10	Check the combustion chamber insulation for damage	○	○	○
11	Check gaskets, and if required, replace them and lubricate with silicone grease	○	○	○
12	Refill granulate, if a neutralising system is installed	○	○	○
13	Check the protective anode every two years on enamelled cylinders	○	○	○
14	Assemble the equipment			
15	Clean and fill the siphon, install and check for tight fit	○	○	○
16	Descale the DHW heat exchanger, if required	○	○	○
17	Clean the DHW strainer	○	○	○
18	Check the expansion vessel in case of water loss	○	○	○
19	Open the gas supply valve and start the boiler			
20	Gas leak test	○	○	○
21	Flue gas leak test	○	○	○
22	Check the ignition	○	○	○
23	Check the interaction with control accessories	○	○	○
24	Flue gas test in emissions test mode	○	○	○
25	Gross flue gas temperature	°C	°C	°C
26	Ventilation air temperature	°C	°C	°C
27	Net flue gas temperature	°C	°C	°C
28	Carbon dioxide content (CO ₂)	%	%	%
29	or oxygen content (O ₂)	%	%	%
30	Carbon monoxide content (CO)	%	%	%
31	Flue gas loss	%	%	%
	Confirm maintenance (company stamp, signature)			



Overview of the steps to be taken and maintenance report

Report item	Report item	Report item	Report item	Report item	Report item	Report item
○	○	○	○	○	○	○
○	○	○	○	○	○	○
○	○	○	○	○	○	○
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○	○	○	○	○	○	○
°C	°C	°C	°C	°C	°C	°C
°C	°C	°C	°C	°C	°C	°C
°C	°C	°C	°C	°C	°C	°C
%	%	%	%	%	%	%
%	%	%	%	%	%	%
%	%	%	%	%	%	%
%	%	%	%	%	%	%

Check control accessories



Figure: BM

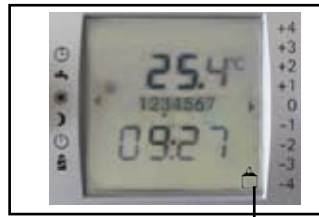


Figure: DWT



Figure: AWT

- The display  must show BUS connection.



BUS
connection

Maintenance requires the following:

1	Maintenance set CGB-75/100	Part no. 86 12 865
1	Cleaning brush	Part no. 24 40 053
1	Tester for BlmSch test	

We recommend the following as part of your service kit:

1	10 g tube of silicone grease	Part no. 86 02 264
1	Burner gasket	Part no. 86 02 527
1	Return temperature sensor	Part no. 27 41 061
1	Flow temperature sensor	Part no. 27 41 058
1	Flue gas temperature regulator	Part no. 86 03 058
1	Ignition electrode	Part no. 86 12 425
1	Monitoring electrode	Part no. 86 03 059
1	O-ring 320x8 silicone foam	Part no. 89 05 729
1	Double lip sealing ring	Part no. 89 05 663
1	Flow temperature limiter	Part no. 86 03 038