



**CN-
EN**

Maintenance instructions for contractors

WALL MOUNTED GAS CONDENSING BOILER

CGB-2-75/100 wall mounted gas condensing boiler

English | subject to modifications!

注意事项

- 1 错误安装将对人、畜和财产造成损害；
- 2 请严格按照沃乐夫制造工厂的说明书及相应的国家及地方技术标准来进行安装和调试；
- 3 只有持有电工和燃气专业操作证书的授权经销商和安装商，才能存储 / 更换锅炉零件或者整个锅炉；
- 4 为保证安全标准的贯彻，请使用原厂配件；
- 5 请用沃乐夫原厂提供的烟道系统设计和配件，禁止随意更改，严格禁止将双烟道系统改为单烟道系统；
- 6 对燃气压力控制器和燃气控制进行的专业维护维修，必须由燃气专业公司或者设备制造厂家进行；
- 7 为确保安全，请在安装商处购买原厂锅炉，请勿在经销商处购买经过非授权更改过的锅炉；
- 8 应在锅炉前的燃气管道上的明显位置安装燃气截止阀；
- 9 请勿将锅炉安装在具有强电磁辐射的电器周围，如电磁炉、微波炉等等；
- 10 禁止拆除锅炉上的任何密封件；
- 11 不能使用带有腐蚀性的清洁剂来清洁锅炉；
- 12 禁止将锅炉安装在卧房、起居室和浴室；
- 13 禁止儿童和无行为能力者操作锅炉，禁止将锅炉当成玩具给儿童玩耍；
- 14 禁止用户独自操作供暖安全阀和供暖热水排水阀；只有专业的技术人员方可操作；
- 15 请勿将锅炉安装在隐蔽的位置；
- 16 负责维护和检查的人员在对锅炉进行维护检查后应在维护和检查结果上进行标注并留档；
- 17 室内的配电系统应安装地线；请勿将与锅炉相连的开关安装在带有浴缸或淋浴设备的房间；使用的插头和插座应通过中国相关部门的认证；
- 18 防冻保护：锅炉安装位置的周围温度需高于 +5 度并且具有防雨保护设施；
- 19 用户需注意，在冬季长期停机期间，必须彻底排空锅炉内采暖和热水系统中的水，此外禁止在锅炉采暖水中加入防冻液；
- 20 采暖循环的水质必须满足安装手册中对水质的相关要求；
- 21 补水时需要操作人员一直在现场并按《使用说明书》中规定的正常工作压力范围 (1.2-1.8 bar) 内补水，若低于 1.0 bar 请补水至正常工作压力，补水后立即关掉补水阀；
- 22 只有保证采暖和生活热水系统的正确设计、施工、安装、维护和操作，锅炉才能正确工作，并保证对应的效率；
- 23 采暖及生活热水的运行费用，不仅仅与锅炉有关，亦与整个系统的构建和运行模式有关。

Cautions

1. Improper installation may cause hazards to human, livestock and object.
- 2 Installation and commissioning of boilers shall be carried out in strict accordance with the requirements of instruction and the relevant national and local technical requirements.
- 3 Only professionally trained, especially professionally certified in doing electrical and gas work, dealers or technical personnel authorized by the manufacturer may conduct professional maintenance or replace spare parts or the entire appliance.
- 4 Original fittings shall be used to avoid reduction of the appliance safety.
- 5 Original flue gas ducts shall be used, and random changes of other ducts are not allowed; it is strictly forbidden to replace coaxial ducts with single pipe ducts;
- 6 Maintenance work of gas pressure regulating valve and control shall be completed by related appliance manufacturer.
- 7 Original productions of the manufacturer, but not the boilers customized by the distributors shall be bought to ensure safety.
- 8 Gas stop valve shall be installed on the pipeline in front of boiler when installing.
- 9 Boiler shall not be installed near electrical apparatuses with strong electromagnetic radiation, like induction cooker, microwave oven, etc.
- 10 It is strictly forbidden to dismantle any seal off the boiler.
- 11 Corrosive detergents shall not be used for boiler cleaning.
- 12 It is strictly forbidden to install boiler in bedroom, living room and bathroom.
- 13 Children and people who cannot operate boiler shall not deal with the work and it is strictly forbidden for children to toy with boilers.
- 14 Users shall not handle the heating safety valve and heating water outlet valve themselves; they shall be handled by professional personnel.
- 15 Boilers should not be installed concealed.
- 16 Maintenance and inspection personnel shall label and document the result of maintenance and inspection on appliances after the work.
- 17 Power distribution system in room shall be provided with earth wire; switch connected to boiler shall not be arranged in rooms with bath tub or shower device; plug and socket shall pass relevant Chinese certifications.
- 18 Frost protection: The boiler can only be installed in the environment with temperature above +5 degree and rain water protection.
- 19 Users shall be noted that during long shutdown periods in winter, the water in heating boiler and domestic hot water system shall be discharged completely. Adding anti-freeze agent is not allowed.
- 20 The water circulated in the heating system must meet the standard specified in the installation manual.
- 21 Operators are required to be on site when filling the boiler and water pressure shall be supplied within the normal working range (1.2-1.8 bar) as specified in the operation manual. If the water pressure is below 1.0 bar, please top up with water to normal working pressure, and turn off the water supply valve immediately after filling.
- 22 The boiler can only function well with target efficiency when the heating system and the DHW systems are properly designed, installed, maintained and operated.
- 23 The running cost of heating and DHW is NOT ONLY connected with the boiler, but also the built up of the system and the operating behavior.

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About this document

1 About this document

- ▶ Read this document before you begin working on the appliance.
 - ▶ Follow the instructions in this document.
- Failure to observe these instructions voids any WOLF GmbH warranty.

1.1 Scope

This document contains instructions for the CGB-2-75/100 wall mounted gas condensing boiler.

1.2 Target group

This document is intended for gas, plumbing, heating and electricity contractors.

A contractor is defined as a qualified and properly trained installer, electrician, etc.

The user is defined as somebody who has been trained to use the heat generator by a specialist.

1.3 Other applicable documents

Operating instructions for contractors CGB-2-75/100

System and operator's log for contractors

Hydraulic System Solutions technical guide for contractors

The documents for all accessory modules and other accessories also apply where relevant.

1.4 Safekeeping of these documents

Documents must be kept in a suitable location and must be available at all times.

The user is responsible for the safekeeping of all documents.

The documents are provided by the contractor.

1.5 Symbols

The following symbols are used in this document:



Symbol	Meaning
▶	An action which must be taken
▬▶	A necessary requirement
✓	The outcome of an action
	Important information regarding the proper use of the heat generator
	A reference to other relevant documents

Table 1.1 Meaning of the symbols

About this document

1.6 Warnings

Warnings in the text warn you of possible risks before the start of an instruction. The warnings provide you with information on the possible severity of the risk using a pictogram and a keyword.





Symbol	Keyword	Explanation
	DANGER	This means that there is a risk of serious injury or loss of life.
	WARNING	This means that there is a potential risk of serious injury or loss of life.
	CAUTION	This means that there is a potential risk of minor to moderate injury.
	NOTE	This means that material damage may occur.

Table 1.2 Meaning of warnings

Layout of warnings

These warnings are laid out as follows:



KEYWORD

Type and source of risk!

Explanation of the risk.

▶ Action to prevent the risk.

1.7 Abbreviations

CW	Cold water
PP	Cylinder primary pump
DHW	Domestic hot water
AM	Display module
BM-2	Programming unit
High limit safety cut-out (HLSC)	High limit safety cut-out
eHLSC	Electronic high limit safety cut-out

2 Safety

- ▶ The heat generator may only be worked on by contractors.
- ▶ In accordance with VDE 0105 Part 1, work on electrical components may only be carried out by qualified electricians.

2.1 Intended use

The heat generator may only be used to heat water for heating systems and for DHW heating. The heat generator must not be operated outside of its permitted output range.

The heat generator may not be used for any other purpose. We assume no liability for any damage caused as a result.

2.2 Safety measures

Never remove, bypass or otherwise disable any safety or monitoring equipment. Only operate the heat generator if it is in perfect technical condition. Any faults or damage that impact or might impact safety must be remedied immediately by a qualified contractor.

- ▶ All faulty components of the heat generator must be replaced with original WOLF spare parts.

2.3 General safety information



DANGER

Electrical voltage!

Danger of death from electrocution.

- ▶ All electrical work must be performed by a contractor.



DANGER

Insufficient combustion air supply or flue gas removal!

Risk of asphyxiation or severe to life-threatening poisoning.

- ▶ Switch OFF the heat generator if you can smell flue gas.
- ▶ Open windows and doors.
- ▶ Notify your local contractor.



DANGER

Escaping gas!

Risk of asphyxiation or severe to life-threatening poisoning.

- ▶ Close the gas tap if you smell gas.
- ▶ Open windows and doors.
- ▶ Notify an approved contractor.



WARNING

Hot water!

Risk of scalding hands from hot water.

- ▶ Before working on parts which are in contact with water, allow the appliance to cool to below 40°C.
- ▶ Use safety gloves.



WARNING

High temperatures!

Risk of burns on the hands from hot components.

- ▶ Before working on an open heat generator, allow the heat generator to cool to below 40°C.
- ▶ Use safety gloves.



WARNING

Overpressure on the water side!

Risk of injury due to high overpressure in the heat generator, expansion vessels and sensors.

- ▶ Close all valves.
- ▶ Empty the heat generator if necessary.
- ▶ Use safety gloves.

2.4 Handover to operator

- ▶ Provide these instructions and the other applicable documents to the operator.
- ▶ Instruct the system user how to operate the heating system.
- ▶ Make the operator aware of the following:
 - Annual inspections and maintenance must be performed by a contractor.
 - WOLF recommends concluding an inspection and maintenance contract with a contractor.
 - Repair work must be performed by a contractor.
 - Use only genuine WOLF spare parts.
 - Do not make any technical changes to the heat generator or control components.
 - The pH level must be checked after 8 to 12 weeks by a contractor.
 - This guide and the other applicable documents must be kept safely in a suitable location and must be available at all times.

The system user is responsible for the safety, environmental compatibility and energy quality of the heating system under the German Emission Control Act/Energy Saving Ordinance.

- ▶ Inform the operator.
- ▶ Refer the operator to the operating instructions.

2.5 Declaration of Conformity

This product complies with **China's** regulations and national requirements.

Checking fault messages

3 Checking fault messages

3.1 Message history in AM or BM-2

Any faults that have occurred during operation can be called up on the “Contractor” level under “Message history”. Press rotary selector, select “Contractor”, enter the code 1111 and call up “Message history”. The last 40 fault messages will be displayed for BM-2 (20 for the AM module) which can provide the contractor with information about maintenance.

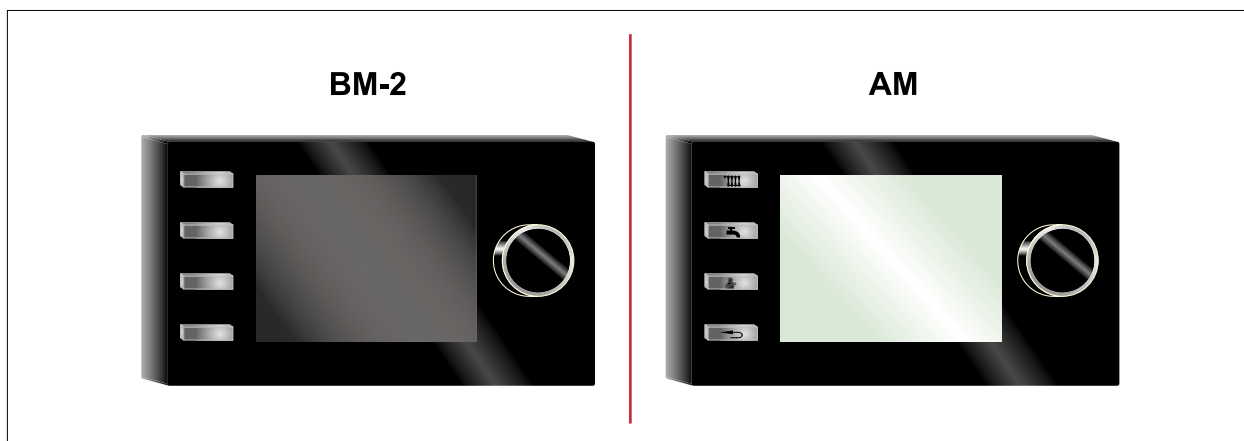


Fig. 3.1 Possible control modules

3.2 Turning off the heat generator

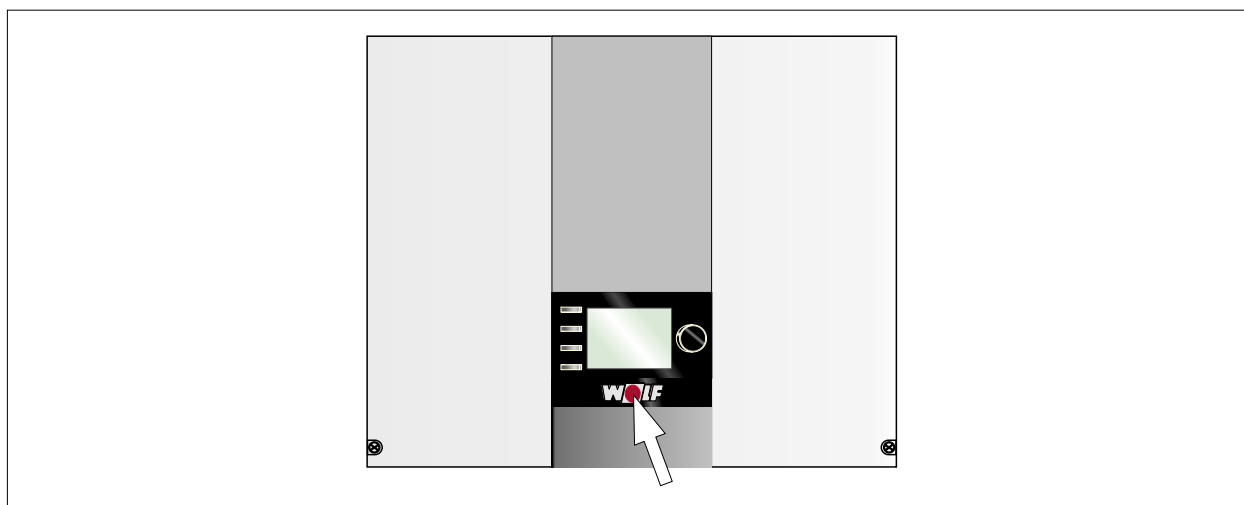


Fig. 3.2 Replacing the heat generator

- ▶ Switch OFF the heat generator at the ON/OFF switch.

Description

4 Description

4.1 CGB-2-75 / CGB-2-100 wall mounted gas condensing boiler layout

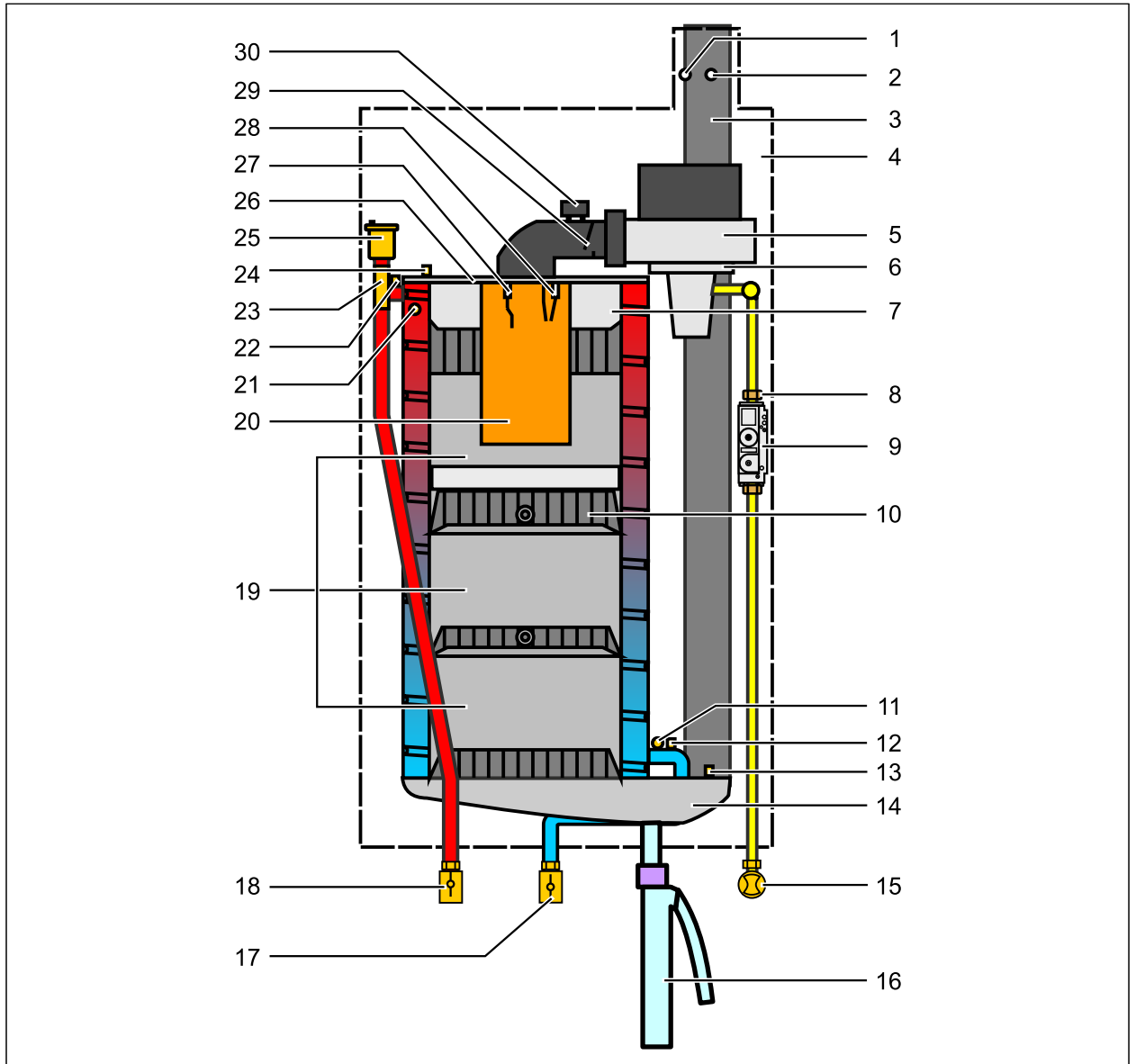


Fig. 4.1 Wall mounted gas condensing boiler layout

- | | |
|--|---|
| 1 Ventilation air test point | 16 Condensate trap |
| 2 Flue gas test point | 17 Heating return |
| 3 Flue pipe | 18 Heating flow |
| 4 Combustion chamber casing | 19 Displacement device |
| 5 Gas fan | 20 Burner |
| 6 Gas-air mixing chamber | 21 Flow sensor |
| 7 Combustion chamber cover insulation | 22 eHLSC flow |
| 8 Gas restrictor | 23 Flash trap |
| 9 Gas combination valve | 24 Combustion chamber temperature limiter |
| 10 Heating water heat exchanger | 25 Quick-action air vent valve |
| 11 Water pressure sensor | 26 Combustion chamber cover |
| 12 Return sensor | 27 monitoring electrode |
| 13 Flue gas temperature sensor | 28 Ignition electrode |
| 14 Condensate pan | 29 Back draught safety device |
| 15 Gas supply pipe / gas appliance valve | 30 Ignition transformer |

Preparing for maintenance

5 Preparing for maintenance

5.1 Required material and tools

5.1.1 Tools

Item	Description	Part no.
1	Maintenance set	8616512
2	Extraction tool for displacement device	2485238
3	Measuring instrument for BlmSchV test	-

Table 5.1 Maintenance tools

5.1.2 Material

WOLF GmbH recommends that you carry the following parts in your service kit:

Item	Description	Part no.
1	Flue gas temperature sensor	2745256
2	Displacers	8612012
3	Ionisation electrode	2747564
4	Flat gasket	3903022
5	BM-2 firmware SD card	2747439

Table 5.2 Spare parts, wearing parts

5.1.3 Isolating the system from the power supply



DANGER

Risk of electrical voltage even when the ON/OFF switch is set to OFF!

Danger of death from electrocution

- ▶ Isolate the entire system from the power supply across all poles (e.g. by removing the mains fuse or by means of a main switch or heating emergency stop switch).
- ▶ Check that the appliance is isolated from the power supply.
- ▶ Safeguard the system against reconnection.



WARNING

High temperatures!

Risk of burns on the hands from hot components.

- ▶ Before working on the open heat generator, allow it to cool below 40°C.
- ▶ Use safety gloves.



Operating instructions for contractors CGB-2-75/100



NOTE

As an imported product doesn't include power cable and plug. So, we need qualified people to install or replace it with CCC certificate

5.1.4 Closing off the gas supply

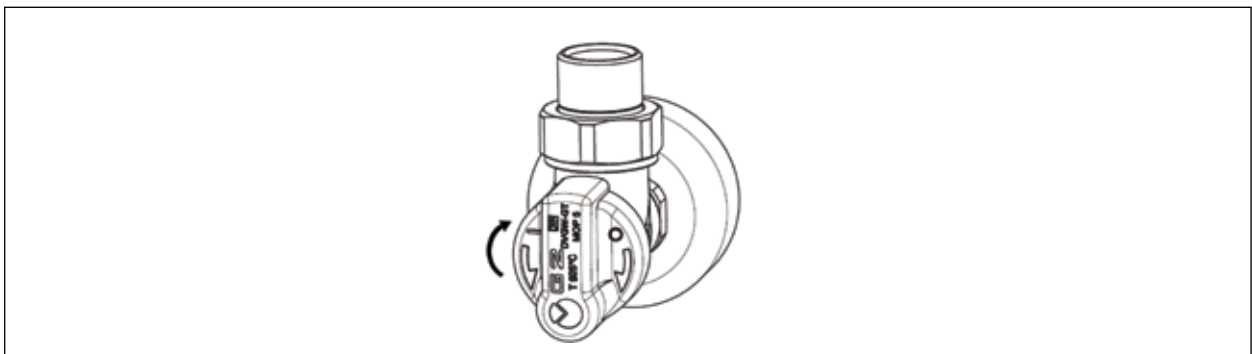


Fig. 5.1 Closing the gas valve

Preparing for maintenance

5.2 Opening the heat generator housing

5.2.1 Opening the front casing

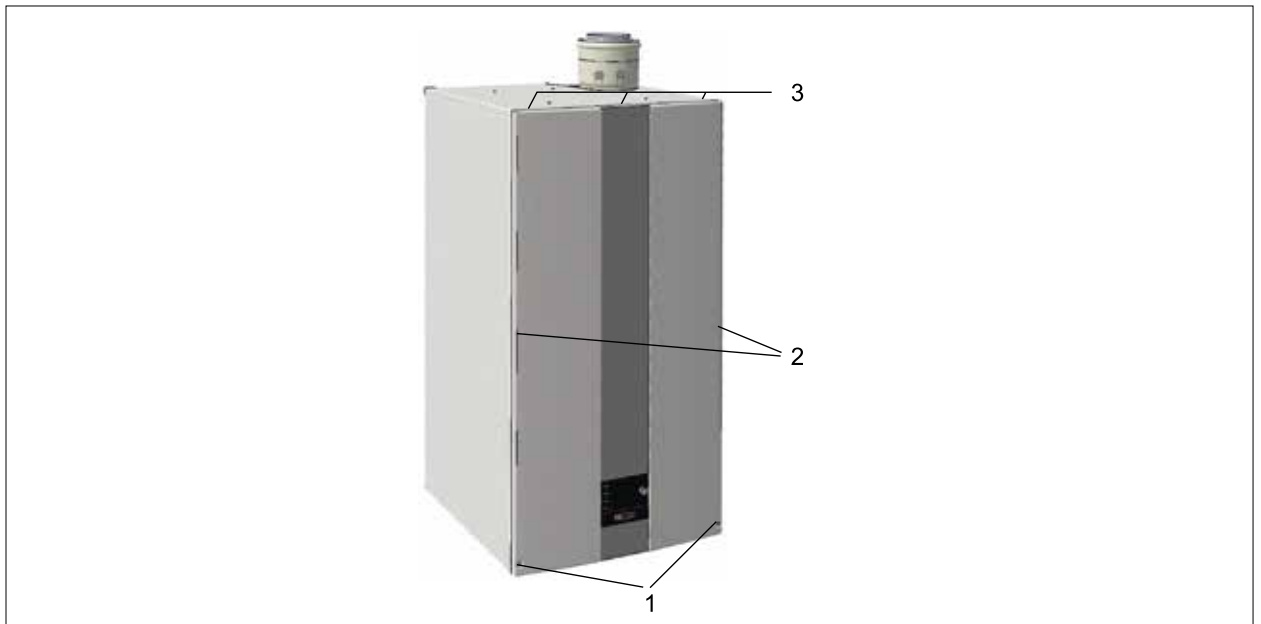


Fig. 5.2 Opening the front casing

- ▶ Undo screws (1).
- ▶ Grip the lower part of the front casing and pull it forward out of the catches (2).
- ▶ Unhook the retainers at the top (3) and remove.

5.2.2 Removing the appliance cover

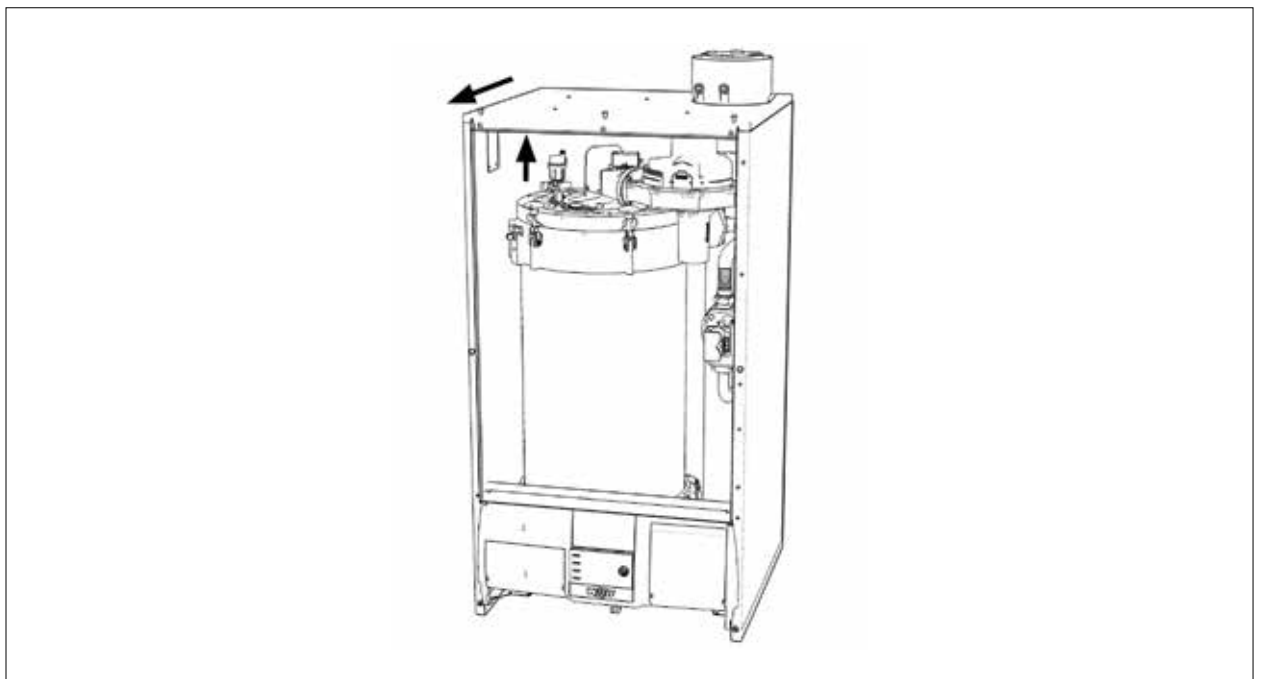


Fig. 5.3 Removing the appliance cover

- ▶ Loosen the clips at the front.
- ▶ Lift up the cover and pull it forwards.

Preparing for maintenance

5.3 Opening the combustion chamber

5.3.1 Opening the gas line

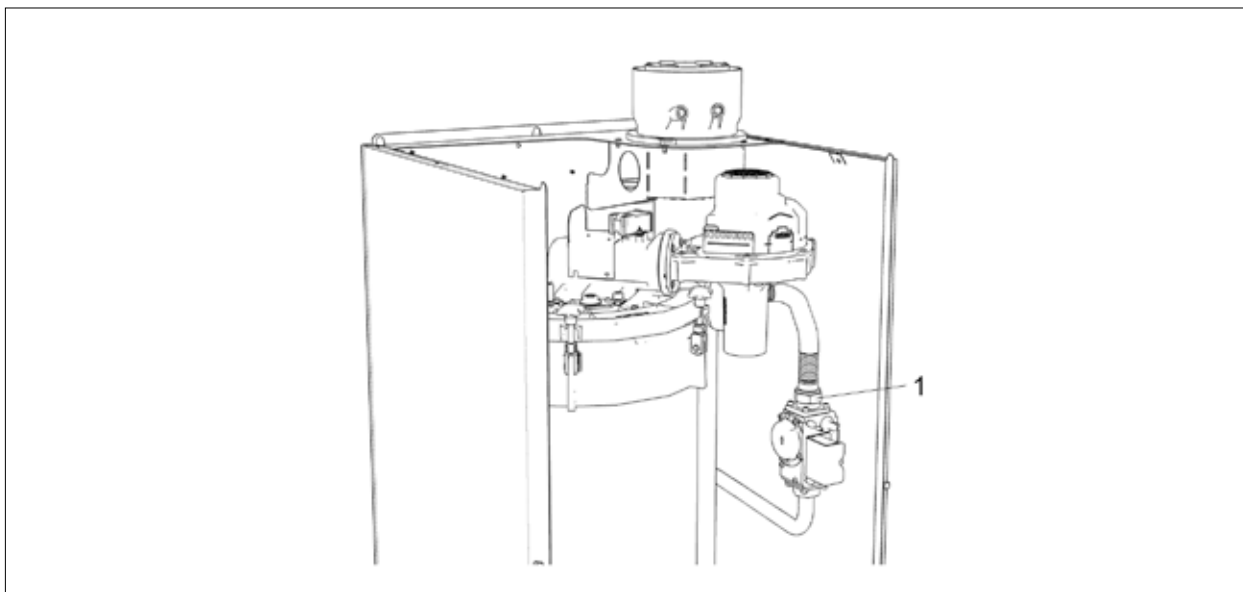


Fig. 5.4 Opening the gas line

- ▶ Loosen the union nut **(1)**.
- ▶ Remove the gasket.
- ▶ Note: Do not open the connection flange to the gas combination valve!

5.3.2 Disconnecting the burner cable

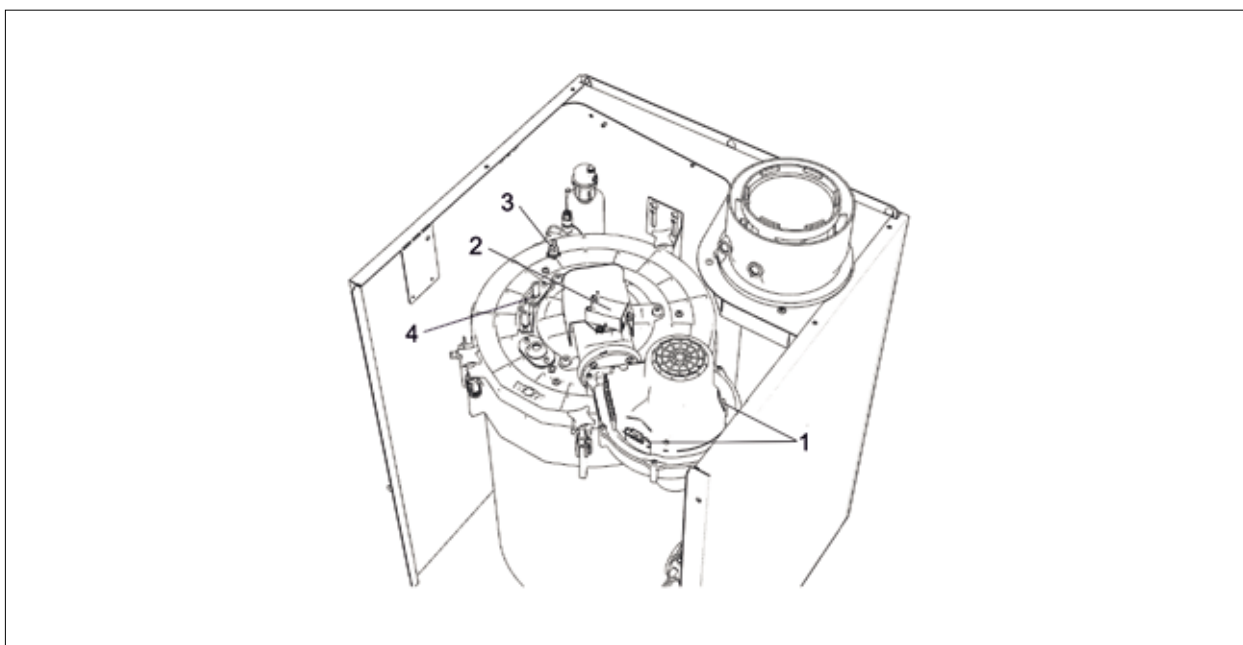


Fig. 5.5 Disconnecting the burner cable

- ▶ Remove the fan connector **(1)**.
- ▶ Remove the connection lines from the ignition transformer **(2)**.
- ▶ Remove the plug-in connections from the HLSC **(3)**.
- ▶ Remove the plug-in connections from the ionisation electrode and earth tab **(4)**.

Preparing for maintenance

5.3.3 Loosening the combustion chamber cover star handle bolts

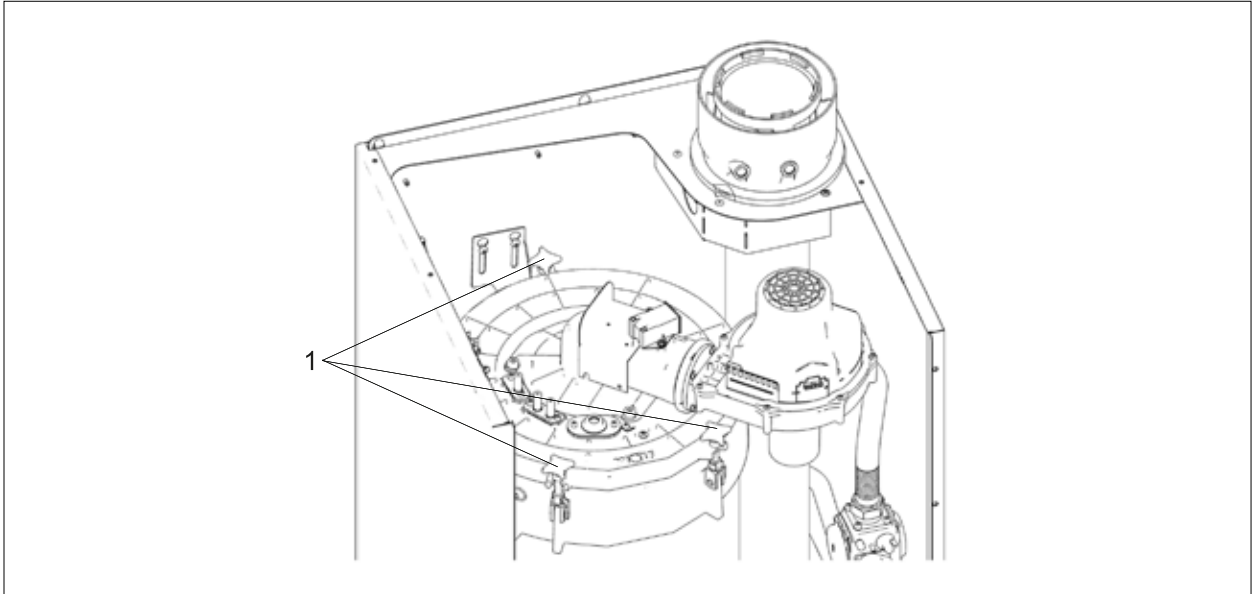


Fig. 5.6 Loosening the combustion chamber cover star handle bolts

- ▶ Loosen the combustion chamber cover star handle bolts (1) and fold outwards.

5.3.4 Removing the combustion chamber cover

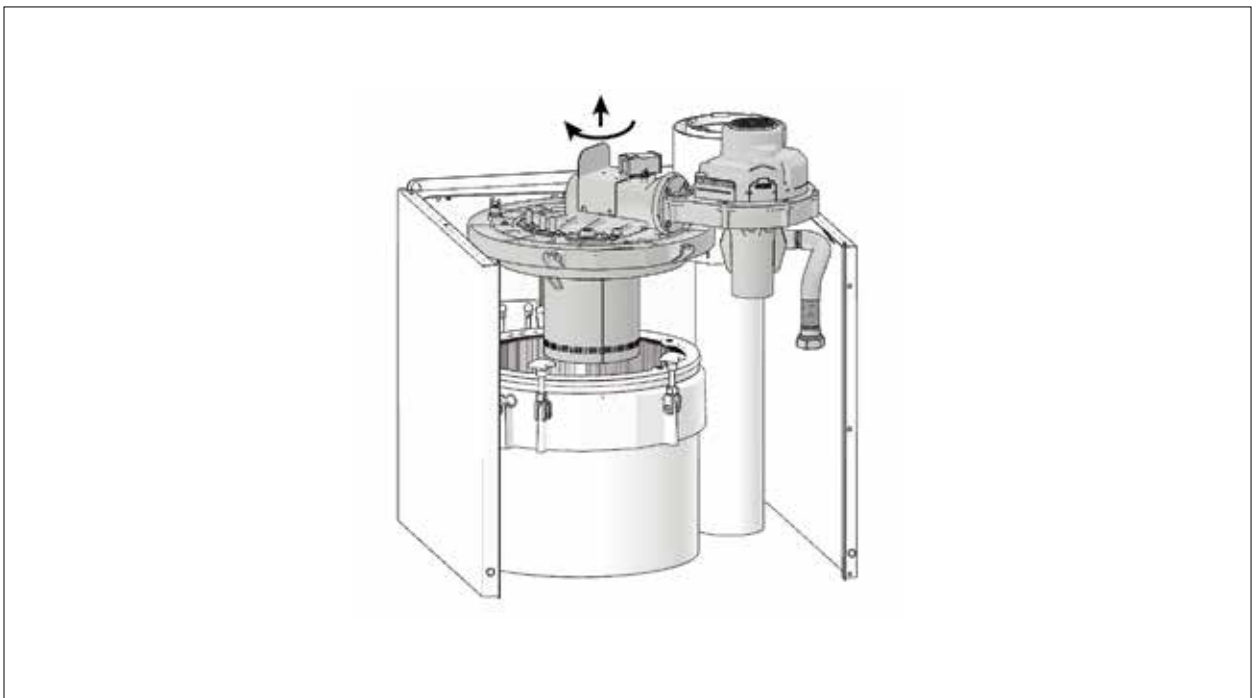


Fig. 5.7 Removing the combustion chamber cover

- ▶ Rotate the combustion chamber cover clockwise and lift it up carefully to remove.
- ▶ Do not damage the refractory brick.

6 Maintenance

6.1 Visual inspection

Visual burner inspection

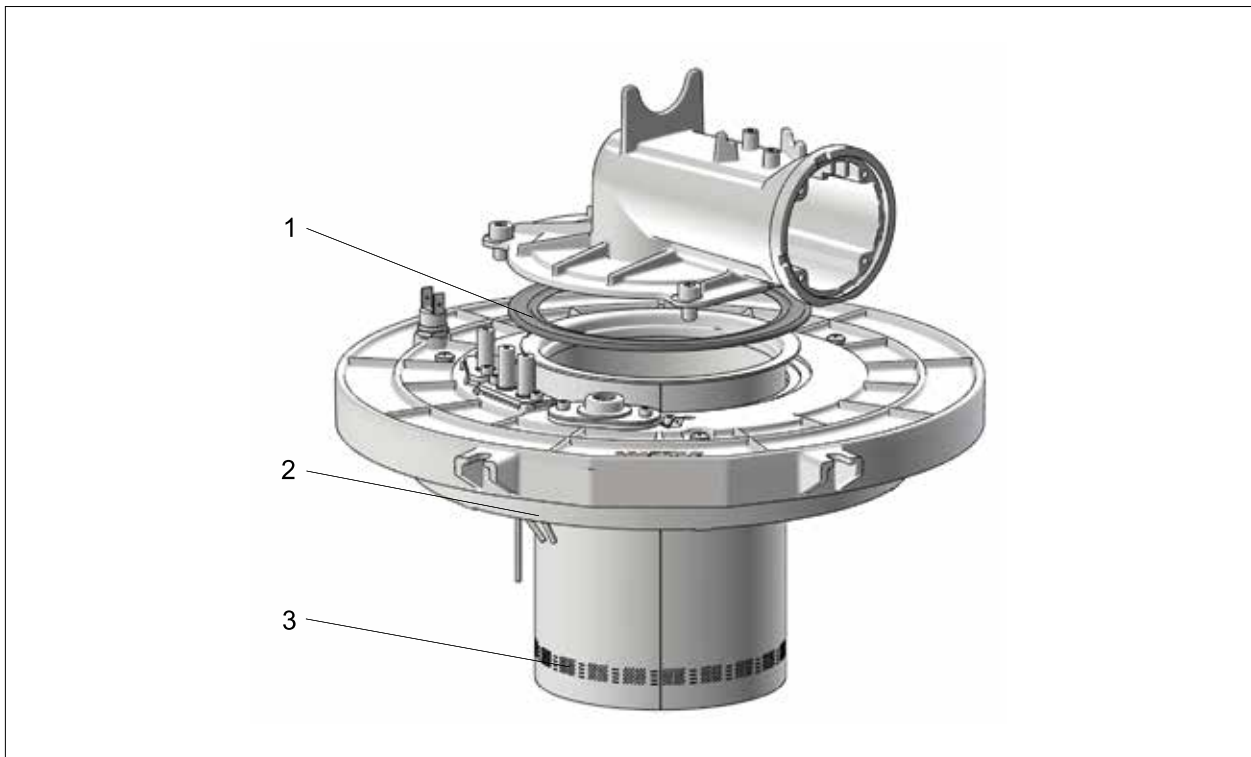


Fig. 6.1 Visual burner inspection

- ▶ Check the gasket **(1)** for damage.
- ▶ Check the refractory brick **(2)** for damage.
- ▶ Check the burner **(3)** for damage or deposits.
- ➡ Remove deposits with detergent and a wet cloth.

Maintenance

6.2 Replacing components

6.2.1 Replacing the burner (if required)

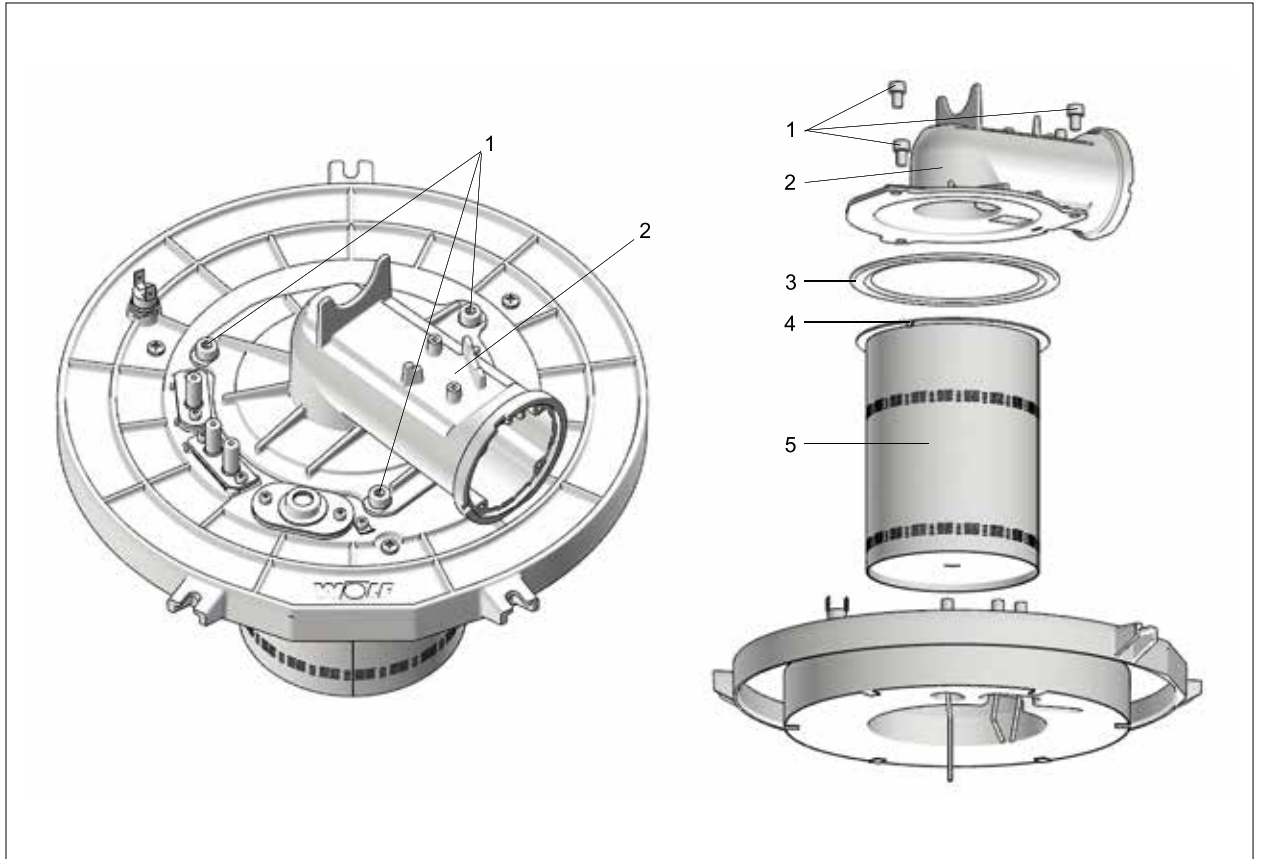


Fig. 6.2 Disassembling the burner

- ▶ Brace the combustion chamber cover and refractory brick before disassembly.
- ▶ Remove the connection lines from the ignition transformer.
- ▶ Remove the plug-in connections from the ionisation electrode and earth tab.
- ▶ Loosen the screws **(1)** on the intake manifold.
- ▶ Remove the intake manifold **(2)**.
- ▶ Replace the burner gasket **(3)** and burner **(5)** if necessary.
- ▶ During assembly, make sure that the spring **(4)** on the burner is placed into the corresponding slot in the combustion chamber cover.
- ▶ Make sure that the burner and burner gasket are in the correct position.
- ▶ Attach the intake manifold **(2)** with 3 screws **(1)** using 6 Nm of torque.

i Only use WOLF genuine spare parts!

Maintenance

6.2.2 Replacing electrodes

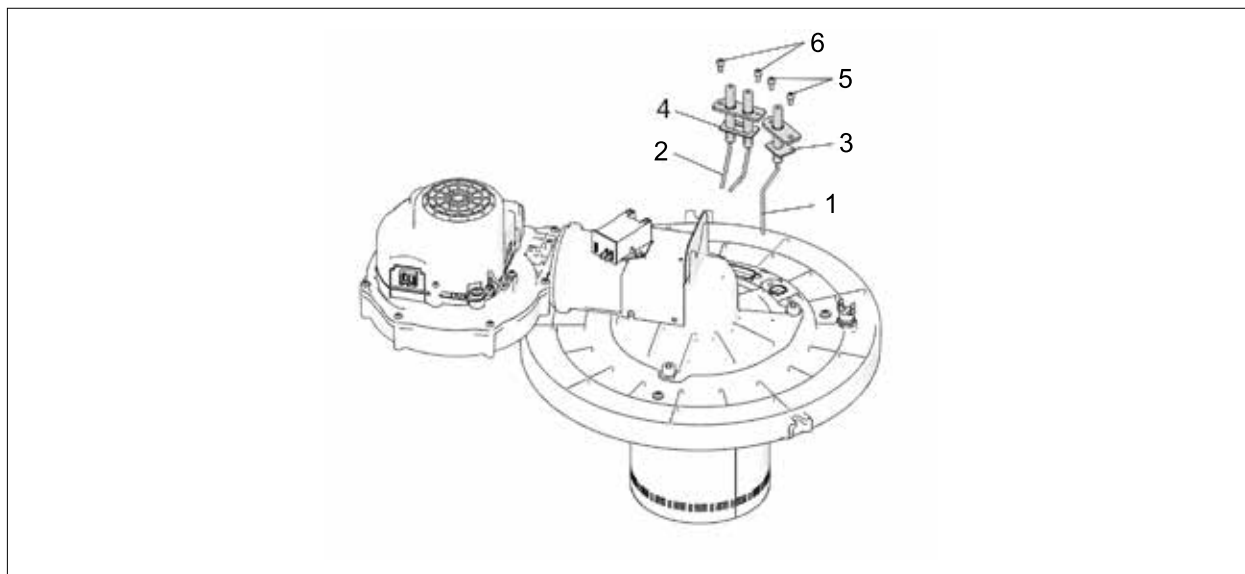


Fig. 6.3 Replacing electrodes

- ▶ The following must be replaced whenever maintenance is performed:
 - Ionisation electrode **(1)**.
 - Ignition electrode **(2)**.
 - Gaskets **(3) (4)**.
 - Screws **(5) (6)**.

i Only use WOLF genuine spare parts from the maintenance kit!

6.2.3 Ionisation electrode gaps

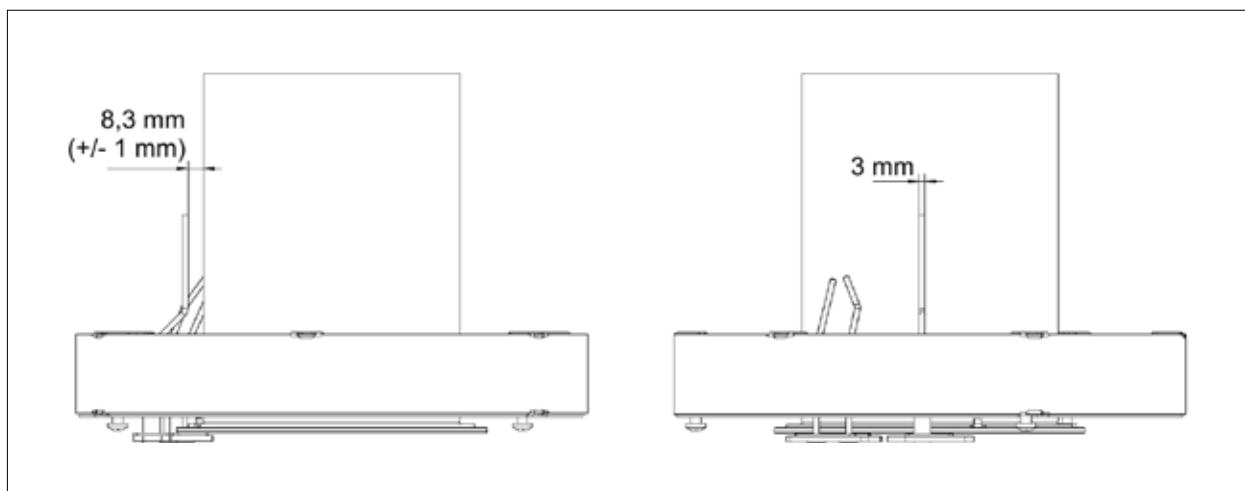


Fig. 6.4 Ionisation electrode gaps

- ▶ Tighten the fixing screws **(5)** Fig. 6.3 with a torque of 3 Nm.
- ▶ Check the gaps in accordance with Fig. 6.4 .
- ▶ Adjust if necessary.

Maintenance

6.2.4 Ignition electrode gaps

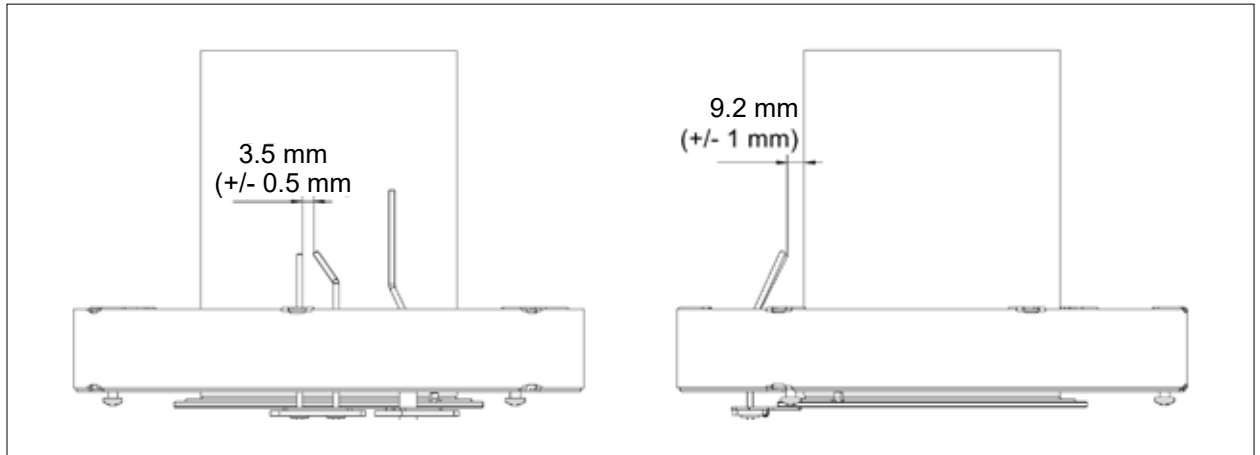


Fig. 6.5 Ignition electrode gaps

- ▶ Tighten the fixing screws (4) Fig. 6.3 using 3 Nm of torque.
- ▶ Check the gaps in accordance with Fig. 6.5 .
- ▶ Adjust if necessary.

6.3 Clean the heat exchanger

6.3.1 Removing the combustion chamber module

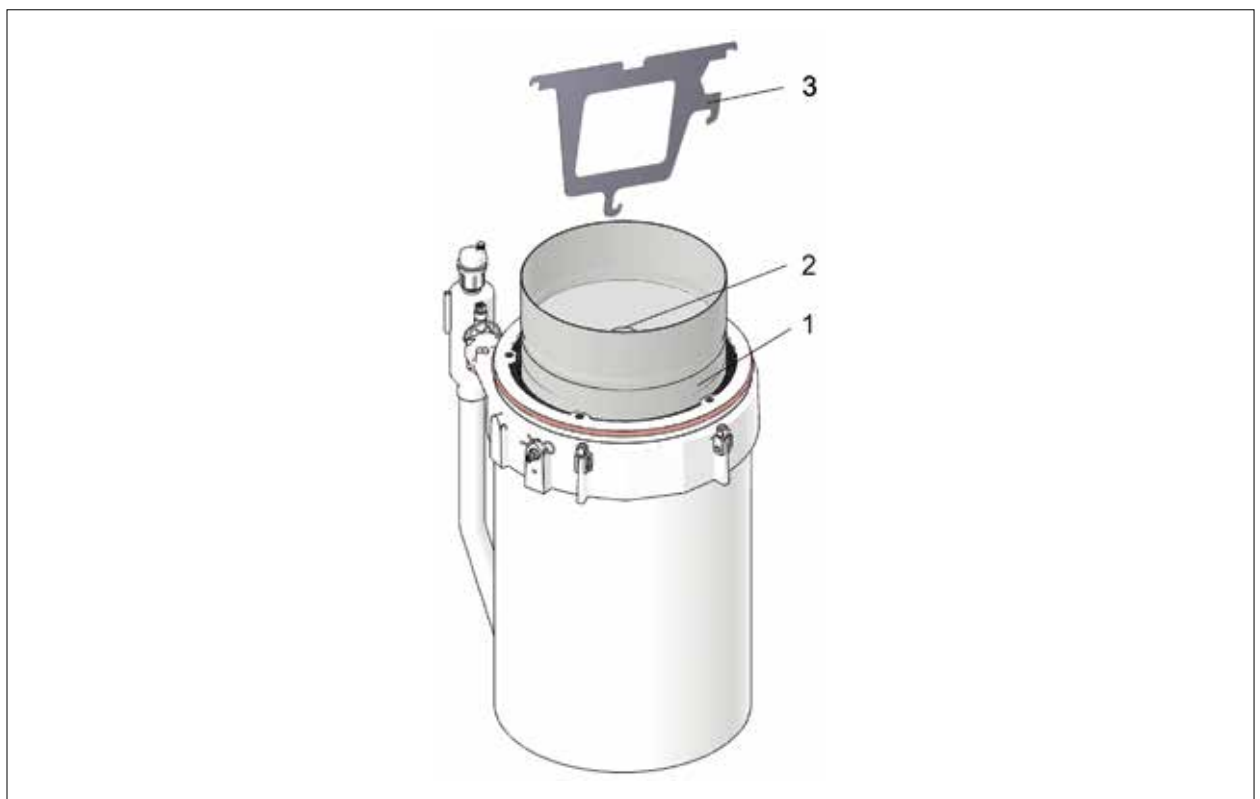


Fig. 6.6 Removing the combustion chamber module

- ▶ Pull out the combustion chamber module (1) at the lifting eye (2) with the extraction tool (3).

Maintenance

6.3.2 Removing the displacer



Fig. 6.7 Removing the displacer

- ▶ Pull out the displacement inserts (1) at the lifting eyes (2) using the maintenance tool.

6.3.3 Clean the heat exchanger

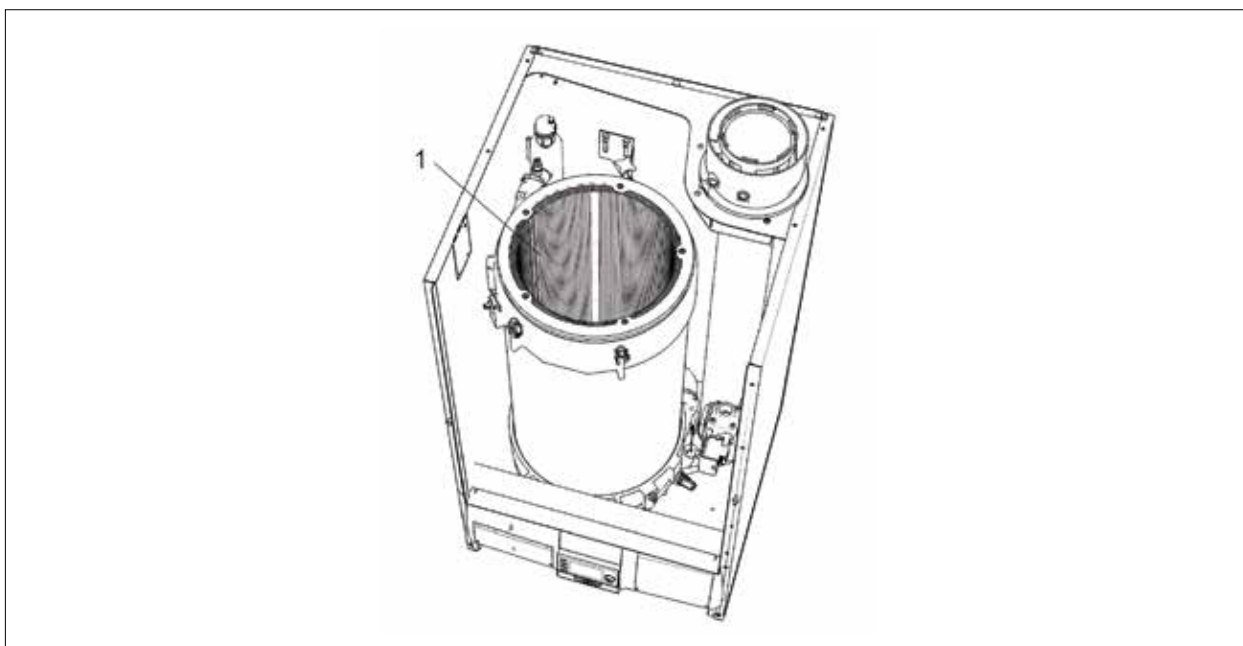


Fig. 6.8 Clean the heat exchanger

- ▶ Clean the heating water heat exchanger (1) with the stainless steel brush and rinse out with water.

i The stainless steel brush is included in the cleaning kit.

⚠ NOTE
Improper cleaning!
Reduced service life.
▶ Do not use chemical cleaning agents.

Maintenance

6.4 Assembling the combustion chamber

Assembling the combustion chamber



Fig. 6.9 Assembling the combustion chamber

- ▶ Insert the displacement inserts **(1)** and **(2)** into the combustion chamber.
- ▶ Insert the combustion chamber module **(3)** into the combustion chamber.
- ▶ Check seal ring **(4)** for damage and make sure it is in the correct position. Replace if necessary.

Fitting the combustion chamber cover

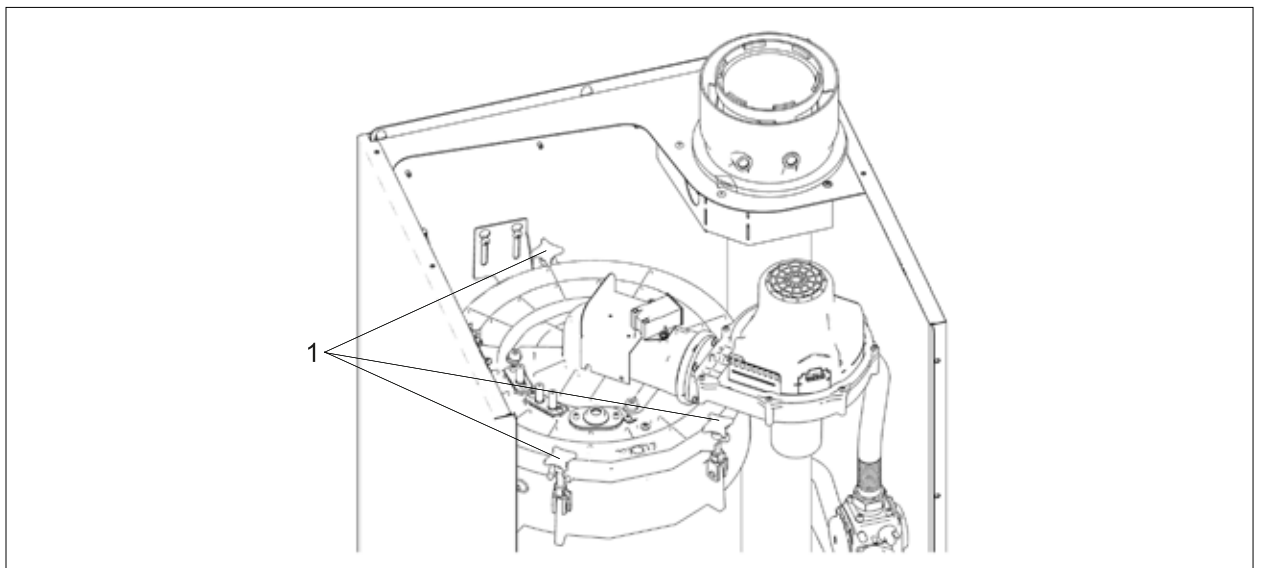


Fig. 6.10 Fitting the combustion chamber cover

- ▶ Place the combustion chamber cover on the combustion chamber.
- ▶ Insert a new gas gasket and tighten the union nut.
- ▶ Connect the ignition and ionisation electrodes, HLSC connector and fan, see [Fig. 5.5](#).
- ▶ Secure the combustion chamber cover with 3 star handle screws **(1)** .

Maintenance

6.4.1 Cleaning the trap

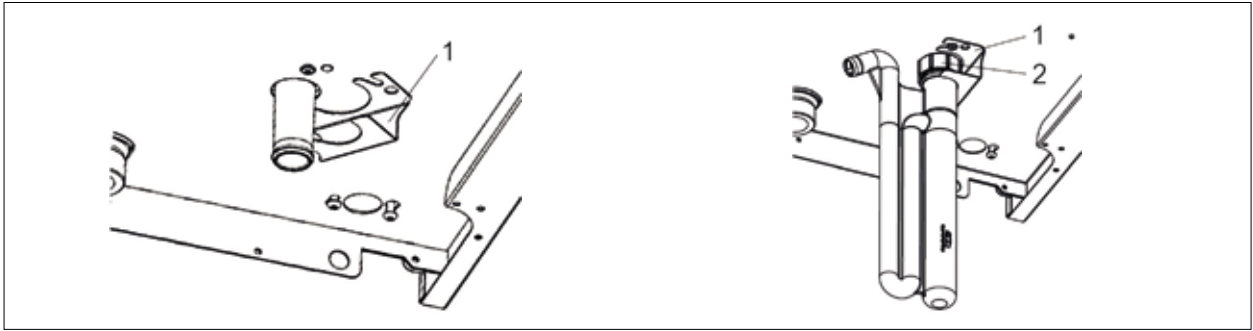


Fig. 6.11 Cleaning the trap

1 Locking clasp

2 Union nut



DANGER

Escape of flue gases!

Risk of asphyxiation or severe to life-threatening poisoning.

▶ Fill the trap with water prior to commissioning!

- ▶ Open the locking clasp (1) at the condensate connector of the boiler.
- ▶ Loosen the trap union nut (2).
- ▶ Remove the trap from the condensate connector.
- ▶ Clean the trap, then fill it with water.
- ▶ Check that the wedge gasket is fitted to the condensate connector correctly.
- ▶ Insert the filled trap until it contacts the condensate connector.
- ▶ Tighten the union nut (2).
- ▶ Close and lock the locking clasp (1) at the condensate drain connection.
- ▶ Connect a drain hose to the trap and the on-site drain.

6.4.2 Refitting the appliance cover and front casing

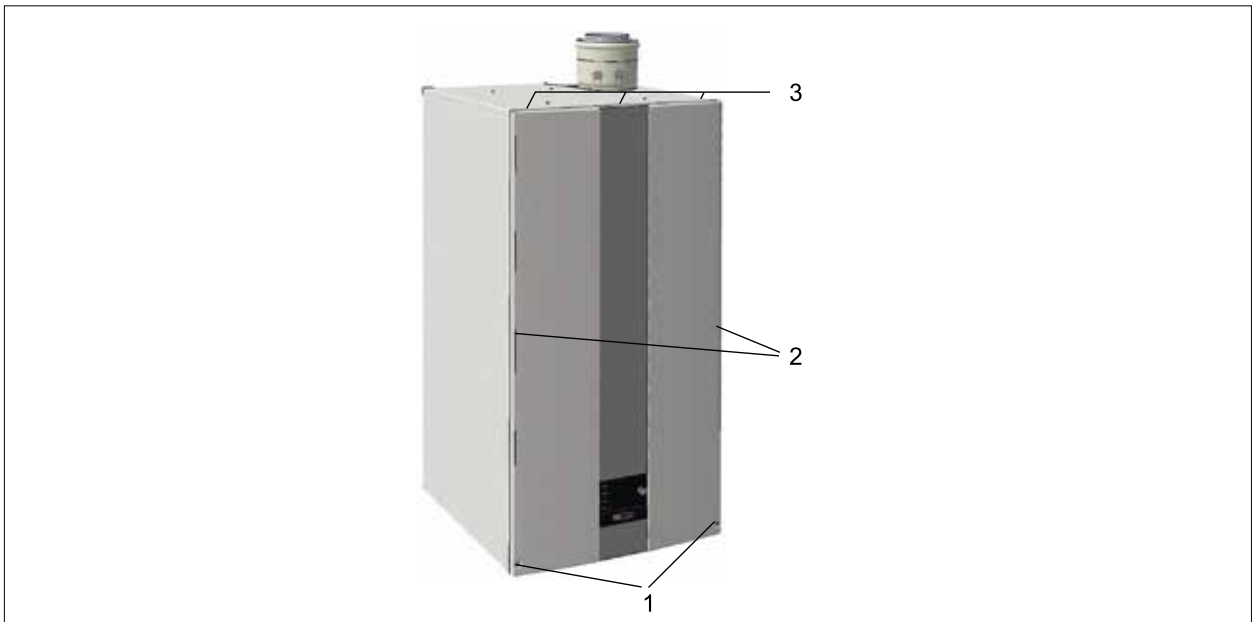


Fig. 6.12 Refitting the appliance cover and front casing

- ▶ Hook in the cover at the rear and push it down until it locks in place.
- ▶ Hook the front casing into the top retainers (3) and push into the catches (2).
- ▶ Lock in place with screws (1).

Maintenance

6.5 Recommissioning


- ▶ Check system pressure.

System pressure below 1.5 bar:

- ▶ Top up with water.
- ▶ Check the pre-charge pressure at the expansion vessel.
- ▶ Open the gas tap.
- ▶ Reset the MCB.
- ▶ Press the ON/OFF switch.

6.6 Finishing the maintenance

6.6.1 Setting combustion parameters


 Operating instructions for contractors CGB-2-75/100


- ▶ Follow the instructions in section 6.8 of the operating instructions for contractors.
- ▶ Fit casing.

Updating the software of the BM-2 programming unit

7 Updating the software of the BM-2 programming unit

The update will prevent appliance data from being lost due to a memory error. Memory errors may occur in certain circumstances, causing the appliance data to be reset to factory settings during the update. There is no risk of causing any permanent damage to the BM-2 programming unit.

 Quick guide for updating the software of the BM-2 programming unit

 A guide and the relevant software are available to download from our website:
www.wolf.eu/shk-profi/downloads-fuer-profis/software-loesungen

► Check the software version.

The current software version is displayed above the loading bar when the BM-2 programming unit is started.

► If necessary, turn the BM-2 programming unit off and back on.

Software version	Update
BM-2 programming unit	
≤1.9	Not possible
2.00 - 2.80	Required
≥2.90	Not required
BM-2 Solar programming unit	
1.00	Required
1.10	Not required

Table 7.1 Software update overview

► Compare current software with [Table 7.1 Software update overview](#).

Software update not required:

✓ Maintenance complete.

Software update required:

► Remove the casing.

► Follow the instructions.

Alternative:

► [Fig. 7.1 QR Code link to video instructions](#) must be followed.



Fig. 7.1 QR Code link to video instructions

► Fit casing.

► Enter individual settings again if required.

✓ Maintenance complete.

Maintenance report

8 Maintenance report

No.	Step	Report item	Report item	Report item
	Date			
1	Switch off appliance, set emergency stop switch to OFF			
2	Closing off the gas supply			
3	Remove the casing and the combustion chamber casing.			
4	Unplug the electrical connections from the fan, ignition transformer and ionisation electrode.			
5	Undo star handle screws and remove combustion chamber cover upwards			
6	If necessary clean burner, replace ionisation electrode and ignition electrode	O	O	O
7	Clean the heat exchanger	O	O	O
8	Clean the condensate pan	O	O	O
9	Clean the mixing chamber if required.	O	O	O
10	Check the combustion chamber cover refractory brick for damage	O	O	O
11	Check gaskets and replace if necessary	O	O	O
12	Check neutralisation system if installed, top up with granulate if required	O	O	O
13	Assemble appliance			
14	Clean, fill and install trap and check for secure fit	O	O	O
15	Check expansion vessel and safety valve	O	O	O
16	Check system pressure	O	O	O
17	Open gas supply, switch on appliance			
18	Gas tightness test	O	O	O
19	Flue gas leak test	O	O	O
20	Check the ignition	O	O	O
21	Check bus connection to control accessories	O	O	O
22	Flue gas test in emissions test mode	O	O	O
23	Gross flue gas temperature	°C	°C	°C
24	Intake air temperature	°C	°C	°C
25	Net flue gas temperature	°C	°C	°C
26	Carbon dioxide content (CO ₂)	%	%	%
27	or oxygen content (O ₂)	%	%	%
28	Carbon monoxide content (CO)	%	%	%
29	Flue gas loss	%	%	%
30	Call up maintenance display and acknowledge fault history	O	O	O
31	Update the BM-2 to FW version 2.90 or later (see quick guide for updating the software of the BM-2 programming unit)	FW	FW	FW
	Confirm maintenance (company stamp, date, signature)			

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