# **Operating** instructions

Grundofen
(GOT with GOF)

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*made in germany.*

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# 1 PRELIMINARY REMARKS

The combinations of basic stove door (GOT) and basic stove firebox (GOF) have been tested by TÜV Süd and fulfill the following requirements:

- Federal Immission Control Act (Ordinance on Small and Medium-Sized Firing Installations - 1st BImSchV, 26.01.2010) for tiled stove heating inserts with filling firing according to DIN EN 13229, stage 2 in accordance with Annex 4.

- Ordinance of the City of Munich on the construction and operation of individual fireplaces for solid fuels (Fuel Ordinance - BStV), amendment dated 09.09.2011.

- Agreement pursuant to Art. 15a B-VG on the placing on the market of small combustion plants and the inspection of combustion plants and combined heat and power plants (Provincial Law Gazette for Vienna dated December 31, 2012)

The following combinations were tested in accordance with DIN EN 15250 : 2007-06 and meet the above requirements (test report W-O 1193-01/14 dated 11.09.2014):

GOT HKD 6.1 with GOF 37x37

GOT HKD 5.1/12 with GOF 37x37

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GOT HKD 5.1/20 with GOF 37x57
GOT HKD 5.1/20 with GOF 57x57
GOT 44/55 f/r with GOF 57x57
GOT 45/101-ZL with GOF 99x42
GOT 51/67-ZL with GOF 66x42
GOT 57/67-ZL with GOF 66x42
GOT 45/101-ZL with GOF tunnel 99x36
GOT 51/67-ZL with GOF tunnel 66x36
GOT 57/67-ZL with GOF tunnel 66x36
GOT corner 51/52/52-ZL with GOF 35x35
GOT Corner 45/101/40-ZL with GOF 80x35
GOT HKD 5.1/20 with GOF 57x37
GOT 44/55 f/r with GOF 57x37
GOT 38/86-ZL with GOF 86x42
GOT 51/55-ZL with GOF 55x42
GOT 52/37-ZL with GOF 37x42
GOT 38/86-ZL with GOF tunnel 86x36
GOT 51/55-ZL with GOF tunnel 55x36
GOT 52x37-ZL with GOF tunnel 37x36
GOT corner 38/86/36-ZL with GOF 64x35
GOT Corner 45/67/44-ZL with GOF 50x35
GOT corner 57/67//44-ZL with GOF 50x35

The operation and operation of a tested GOT and GOF unit is fundamentally different from the operation of a fireplace or tiled stove insert. Please note the additional information in these instructions.

# 2 BASIC INFORMATION ON HEATING OPERATION

The firebox door may only be opened to load fuel or for cleaning. Keep the combustion chamber closed even when the stove is not being fired. BRUNNER heating appliances are designed and optimized for closed operation as intended.

Ulrich Brunner GmbH heating appliances are designed for time burning, i.e. you must always load the minimum amount of fuel and adjust the combustion air according to these instructions. Combustion with too little combustion air leads to increased environmental pollution and increased soiling of the glass.

Avoid overheating the appliance! If the stove is overheated, discoloration may occur, particularly in the variants with stainless steel panels. These discolorations therefore do not constitute grounds for complaint.

### Heating a basic oven

To begin with, place the maximum filling quantity on top, light at the top and allow to burn. Wait one hour after the stove has burnt down, then place the reduced filling quantity and after a further hour after the stove has burnt down - if still necessary - place another reduced filling quantity. You can repeat this after a heating break of eight hours. If you place larger quantities of fuel in a shorter time, the reheating surface may be overloaded.

Discuss fuel quantities and heating intervals with your stove fitter. Different heating intervals apply for dry heating of a storage stove!

### Heating during the transitional period

The stove needs the chimney draught to draw in the combustion air and to discharge the flue gases. This decreases as the outside temperature rises. If the outside temperature is above 10°C, check the chimney draught before lighting.



*Im. 1: Draught test*

### Air supply to the installation room

The basic stove can only function properly if there is a sufficient supply of combustion air to the installation room. Ensure a sufficient air supply before lighting. If available, open the outside air flap and keep it open for the entire combustion period. Do not modify the combustion air supply equipment.

### Cracks in the fireclay

**Important note:** Single cracks on fire-resistant combustion chamber linings are no reason for concern.

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These exactly dimensioned fireclay plates are manufactured specially for our fireplaces. The pre-fired fireclay plates protect the steel body, have insulating properties and are an essential component of the low-emission “green” combustion chamber design. Most different temperature strains, as well as mechanical impacts can (or actually will) cause small cracks on these plates. This material condition is harmless and does not constitute a reason for a claim.

What is not normal, are chips of stone falling off, or noticeable, star-shaped cracks on several levels.

**Instructions for using the “anthracite fireclay” combustion chamber version**

In the “anthracite fireclay” version, the surface of the fireclay panels is painted in the visible area and on the end faces. The black coating hardens at room temperature and reaches its final strength after the first firing.

The carbon content determines the intensity of the black paint application. Carbon burns at temperatures between 700-800°C. Depending on use and intensity, the color application may fade or discolor in the area of the combustion air inlets and in the combustion chamber floor (height of the embers). These signs of use are normal signs of wear that cannot be avoided.

If the following points are taken into account, the black color of the fireclay surface will be retained for a long time:

– Proper operation with the recommended filling quantities (surface temperature of fireclay < 700°C)
– No treated or coated wood or liquid fuels; only natural wood with residual moisture <20%
– Do not clean the surfaces with steel/wire brushes or cleaning agents

**Door sealing cords**

BRUNNER only uses the highest quality door sealing cords, which are precisely matched to the requirements of our heating appliances.

Nevertheless, door seals are wearing parts and are therefore excluded from the warranty.

When used as intended, the normal service life is significantly extended.

Overheating with higher filling quantities than specified in the operating instructions, direct contact with glowing parts ('charcoal') and the use of unsuitable and aggressive cleaning agents can lead to a significantly shortened service life.

**Viewing windows**

Carefully insert the logs into the combustion chamber to prevent them from slipping against the viewing panel during combustion and burning down. The resulting temperature load can lead to permanent discoloration (grey haze) of the viewing panel.

# 3 FUEL QUANTITIES

The fuel quantities specified in the following refer to the structure recommended by Ulrich Brunner GmbH with MSS opposite or on top. As base stoves can be installed in very different ways from this, the specifications of the specialist installer should always be given priority.

The fuel quantity is given in kg for the first (= maximum filling quantity) and second burn-off (= reduced filling quantity).

| GOT with GOF | MSS on top | MSS adjacent |
|---|---|---|
| GOT HKD 6.1 with GOF 37x37 | 7 + 4 | 8 + 5 |
| GOT HKD 5.1/12 with GOF 37x37 | 7 + 4 | 8 + 5 |
| GOT HKD 5.1/20 with GOF 37x57 | 8 + 4 | 9 + 8 |

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| GOT with GOF | MSS on top | MSS adja-cent |
|---|---|---|
| GOT HKD 5.1/20 with GOF 57x37 | 8 + 4 | 9 + 8 |
| GOT HKD 5.1/20 with GOF 57x57 | 8 + 4 | 9 + 9 |
| GOT 44/55 f/r with GOF 57x37 | 8 + 4 | 9 + 8 |
| GOT 44/55 f/r with GOF 57x57 | 8 + 4 | 9 + 9 |
| GOT 38/86-ZL with GOF 86x42 | 8 + 5 | 9 + 8 |
| GOT 45/101-ZL with GOF 99x42 | 9 + 9 | 9 + 9 |
| GOT 51/55-ZL with GOF 55x42 | 7 + 4 | 8 + 5 |
| GOT 51/67-ZL with GOF 66x42 | 8 + 4 | 9 + 8 |
| GOT 52/37-ZL with GOF 37x42 | 8 + 5 | 8 + 5 |
| GOT 57/67-ZL with GOF 66x42 | 8 + 4 | 9 + 9 |
| GOT 38/86-ZL with GOF tunnel 86x36 | 8 + 4 | 8 + 4 |
| GOT 45/101-ZL with GOF tunnel 99x36 | 8 + 5 | 9 + 9 |
| GOT 51/55-ZL with GOF tunnel 55x36 | 7 + 4 | 8 + 5 |
| GOT 51/67-ZL with GOF tunnel 66x36 | 7 + 4 | 8 + 5 |
| GOT 52x37-ZL with GOF tunnel 37x36 | 7+ 4 | 8 + 5 |
| GOT 57/67-ZL with GOF tunnel 66x36 | 7 + 4 | 8 + 5 |
| GOT Corner 38/86/36-ZL with GOF 64x35 | 7 + 4 | 8 + 5 |
| GOT Corner 51/52/52-ZL with GOF 35x35 | 7 + 4 | 8 + 4 |
| GOT Corner 45/67/44-ZL with GOF 50x35 | 8 + 4,5 | 8 + 5,5 |
| GOT corner 45/101/40-ZL with GOF 80x35 | 8 + 6 | 9 + 9 |
| GOT corner 57/67//44-ZL with GOF 50x35 | 8 + 4,5 | 8 + 5,5 |

| GOT with GOF | MSS on top | MSS adjacent |
|---|---|---|
| BSG 01 | 8 + 4 | 9 + 8 |
| BSG 02 | 8 + 4,5 | 8 + 5,5 |

# 4 COMBUSTION AIR SETTING

Observe the information on the combustion air control element in the operating instructions for the basic stove door.



Only set the glowing embers position after complete combustion. Risk of deflagration!

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**Art.Nr.: 200284**