ASSEMBLY INSTRUCTIONS

Type plate for your heater

Frankfurt

Please see the next page for further important notes!
Affixing the type plate

It is now a legal requirement to affix the enclosed type plate to your heater. The chimney sweep needs to see the specifications on the heater to be able to approve the device.

You can therefore decide where to affix the type plate in your given installation so that it is clearly legible with the chosen location complementing the stove's overall appearance.

How to affix the type plate:

1. Remove the type plate from the envelope.
2. Affix the plate to an obvious place on the device; depending on your installation type, choose the bottom part of the stove where it is not too hot.

   Our recommendation:
   a) bottom part of the back wall
   b) bottom part of the side panels
   c) on the drawer
   d) on the stone or steel board

3. Remove the adhesive backing and affix the plate to the designated place. The type plate and the adhesive backing are heat-resistant up to approx. 180°C.

→ Serial number:

You can find the heater's serial number in the bottom part of the combustion chamber when you have the door open.
ASSEMBLY INSTRUCTIONS FOR WOOD-BURNING STOVE

Model: Frankfurt

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Subject to technical changes. Please read your technical instructions as well as the enclosed installation and operating instructions carefully and keep them in a safe place.

Follow national and European standards and applicable to local provisions.
1 Data Sheet (Dimensions in cm)

The following standards and requirements are fulfilled

<table>
<thead>
<tr>
<th>Standard/Code</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 13240</td>
<td></td>
</tr>
<tr>
<td>1. BImSchV Stufe 2</td>
<td></td>
</tr>
<tr>
<td>BSTV Munich</td>
<td></td>
</tr>
<tr>
<td>BSTV Regensburg</td>
<td></td>
</tr>
<tr>
<td>FBStVO Aachen</td>
<td></td>
</tr>
<tr>
<td>Switzerland LRV 2011</td>
<td></td>
</tr>
<tr>
<td>VKF-Nr. 25848</td>
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### Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Frankfurt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>178.5</td>
</tr>
<tr>
<td>Width (body)</td>
<td>37cm</td>
</tr>
<tr>
<td>Depth (body)</td>
<td>37cm</td>
</tr>
<tr>
<td>Total weight (incl. accumulator)</td>
<td>217kg</td>
</tr>
<tr>
<td>Chamottes weight</td>
<td>25.5kg</td>
</tr>
<tr>
<td>Heat accumulator weight</td>
<td>49kg</td>
</tr>
<tr>
<td>Flue pipe socket</td>
<td>Ø 150mm</td>
</tr>
<tr>
<td>Outside air connection</td>
<td>Ø 100mm</td>
</tr>
<tr>
<td>Combustion chamber width</td>
<td>27cm</td>
</tr>
<tr>
<td>Combustion chamber depth</td>
<td>27cm</td>
</tr>
<tr>
<td>Fire door height</td>
<td>80cm</td>
</tr>
<tr>
<td>Fire door width</td>
<td>52cm</td>
</tr>
<tr>
<td>Door glass height</td>
<td>68cm</td>
</tr>
<tr>
<td>Door glass width</td>
<td>44cm</td>
</tr>
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### Test values according to DIN EN 13240

<table>
<thead>
<tr>
<th>Test values according to DIN EN 13240</th>
<th>Intermittent burning stove</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible fuel</td>
<td>Split logs, wood briquettes1)</td>
</tr>
<tr>
<td>Max. combustion quantity</td>
<td>3.4kg / hour</td>
</tr>
<tr>
<td>Efficiency</td>
<td>78%</td>
</tr>
<tr>
<td>CO (13%O2)</td>
<td>906mg/m³</td>
</tr>
<tr>
<td>CO (13%O2)</td>
<td>0.073%</td>
</tr>
<tr>
<td>Dust (13%O2)</td>
<td>38.4mg/m³</td>
</tr>
<tr>
<td>NOx (13%O2)</td>
<td>142.9mg/m³</td>
</tr>
<tr>
<td>OGC CxHy (13%O2)</td>
<td>72.1mg/m³</td>
</tr>
<tr>
<td>Nominal heat output</td>
<td>10kW</td>
</tr>
<tr>
<td>Room heat output</td>
<td>10kW</td>
</tr>
<tr>
<td>Room heat capacity</td>
<td>70–210m³</td>
</tr>
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</table>

### Data for chimney calculation according to EN 13384

<table>
<thead>
<tr>
<th>Data for chimney calculation according to EN 13384</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Flue gas mass flow</td>
<td>14.5g/s</td>
</tr>
<tr>
<td>Flue gas temperature on pipe socket</td>
<td>290°C</td>
</tr>
<tr>
<td>Minimum draught</td>
<td>12Pa</td>
</tr>
</tbody>
</table>

All the above details are test bench values

Details on room heat capacity may differ depending on your place of use

1) Only wood briquettes according to standard EN DIN EN ISO 17225-3, quality class A1 approved

Subject to technical changes
2 Safety Distances

Protect all flammable components, furniture, or objects near the wood-burning stove from heat exposure. In particular, follow applicable local regulations.

1. Fire protection board
2. Radiant heat
3. Vermiculite board or similar

Safety distance to flammable components:

The **radiant heat (2)** from the door glass must maintain a distance of **80 cm** to flammable components.

**Lateral** and **rear** distance to flammable walls is at least **37 cm**.

If you insulate the wall to be protected using 4 cm of material (3), such as a vermiculite board (e.g. with Promasil 950 KS plate) or similar insulation, the lateral and rear distances are at least 18 cm.

In case of a flammable floor, protect it using a fire protection board (1); dimensions starting from firebox opening: at least 30 cm on the sides, and at least 50 cm to the front.

Follow local provisions when choosing the fire protection board.
3 Further notes

Maintaining the safety distances to flammable components and those requiring protection means you are complying with document J of the building regulations, regulating the rules for installing solid fuel appliances. If the components are non-flammable, you can reduce the distance. Despite maintaining the above safety distances, sensitive wall materials may stain; this, however, is no basis for a warranty claim.

Your wood-burning stove is an intermittent burning stove (burning for a limited period of time). Therefore, do not overwork it significantly or permanently.

In normal operating conditions, the wood-burning stove's door handle remains cool. In case it becomes too hot, use a protective glove.

The minimum draught is 12Pa. The maximum draught is 15Pa. If the negative pressure exceeds 15Pa, limit the draught.

For the outside air connection, you need to take into account that the atmospheric air pressure is the same as the ambient air pressure. Excessive or insufficient draught may affect the combustion result.

Check the heat-resistant door magnets at least once a year for proper adjustment and readjust them, if necessary, to ensure the firebox door closes tightly.

Check the door magnets for damage (e.g., tears, fissures) at least once a year and replace them, if necessary, through your specialist retailer.

The gaskets on the firebox doors and their glass are under thermal strain and may be subject to wear and tear. Therefore, check the gaskets periodically and replace them once a year.
4 Air Slide Settings

The air slide (1) regulates how much air is available for combustion. The air slide (1) is a lever (1) for regulating the flow of primary air (2) and secondary air (3).

To burn approx. 2.3kg (approx. 3 split logs with a length of 20 to 25cm) of fuel (4) takes approx. 40 to 45 min depending on fuel quality, chimney, and weather conditions. When the fuel has burned down and created a basic firebed, you can add more fuel.

Turn the fuel selector lever (5) on the back of the wood-burning stove into the "Split Logs" position until the lever engages.

Whilst the stove warms up, move the air slide into the left-most position (1) as per the arrow symbol. → Combustion air fully open

Air slide 1/3 open: → In this position the system reaches its nominal load

Air slide (1) in right-most position: → Combustion air fully closed
5 Assembling the Chamottes

Insert the chamotte pieces dry, do not use fixatives. Insert the individual chamotte stones in the correct order into the combustion chamber as described below. Ensure the chamottes sit properly so your stove works flawlessly.

Check the chamotte stones and deflection plates for completeness.

Place chamotte stones and deflection plate next to the wood-burning stove.

Open the stove door and use a suitable aid (e.g., wooden board) to ensure the door cannot close of its own accord.

Check the floor of the combustion chamber for contamination and clean it, if necessary.

Install the top deflection plate (1) as illustrated.
Place the deflection plate (1) onto the top contact surface (O) and the back mounting bracket (U) as illustrated.

Install the firebox floor (2) as illustrated and push it forwards.

Ensure that you have inserted the floor cover (7).

Place one cornerstone (6) into the farthest corner of the combustion chamber (8).
Insert the left sidewall block (3) and the right sidewall block (4) between floor cover (2) and cornerstone (6) as illustrated.

Place the second cornerstone (6) onto the already installed cornerstone (6).

Then place the next left sidewall block (3) onto the already installed sidewall block (3). Install the right sidewall block (4).
After installing the floor cover (2), the left sidewall blocks (3) and the right sidewall blocks (4), align and centre them.

Insert the baffle (5) into the firebox as illustrated: place its front onto the lateral contact surfaces and its back onto the lateral sidewall blocks (3, 4).

Ensure to place the baffle (5) onto the top contact surface (O) and its lug (U) at the back onto the sidewall blocks (3, 4) as illustrated.

Push the baffle (5) backwards until its lug (9) is in position.

Insert the baffle plate.

Uninstall the chamottes in reverse order.
6 Cleaning

To clean the firebox thoroughly, you can uninstall the chamotte cladding in the reverse order to that described in Section 5. This gives you even better access to the firebox and the combustion air openings.

To clean the flue gas pipes, remove the baffles from the wood-burning stove to enable you to remove soot from the flue gas pipes in the combustion chamber.

To clean the stove pipes and the heat accumulator, remove both baffles (1) and (5).

This gives you free access to the flue pipe socket.

To clean the combustion chamber (11), please remove the combustion chamber lining completely.

Remove the bottom cover (7). Remove the inspection cover (12) and the air disc (13). Clean air ducts with a suitable vacuum cleaner. During subsequent assembly, make sure that the marking on the air disc (13) is visibly on the top.
7 Assembly: Frankfurt wood-burning stove

Caution!
Handle all cladding elements with extreme care!
Ensure not to collide with other parts or objects!
Do not position cladding elements on corners or edges!
Place the parts on a soft surface (e.g., cardboard)!

Tools for assembling the stove:
- Spirit level
- Spanner SW13
- Spanner SW10
- Socket wrench SW10
- Hexagon screwdriver SW3

Carefully take the wood-burning stove (1) out of its transport frame.

Remove the steel cover (2) and the base cover (3) from the wood-burning stove (1)
by reversing the assembly sequence listed below.
Place the wood-burning stove (1) in its final location and check its horizontal position using a spirit level.

If necessary, use the adjustable feet (4) for aligning the stove. Use the spanner for turning the adjustable feet (4).

Attach the base cover (3) to the wood-burning stove (1) using 4 socket head screws (5).

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**Installing the accumulator stones**

Flue gas envelopes the accumulator stones (6); therefore, they need to be tightly closed inside the wood-burning stove.

The entire heat accumulator consists of 8 accumulator stones (6).

Insert the accumulator stones (6) into the accumulator box (7) as illustrated, with their cutouts pointing inwards.
Place the accumulator stone holder (8) onto the accumulator stones (6).

To tightly close the accumulator box (7), place the gasket (10) onto the sealing surface (11). Place the accumulator cover (9) onto the gasket (10).

Screw the corners of the accumulator cover (9) tight using threaded pins and hexagon nuts (12, 13). Use hexagon nuts (14) to attach the lateral edges of the accumulator cover (9).

Place the steel cover (2) onto the wood-burning stove (1).

Use the threaded pin (12) to adjust the height position of the steel cover (2). Then retighten the hexagon nut (13).

See Section 5 for assembling the chamottes.
8 Outside Air Connection

**Outside air connection**

The wood-burning stove comes with a downwards (U) and a backwards (H) outside air connection.

Depending on your connection type, (downwards (U) or backwards (H)), use a straight outside air pipe socket (1) or an angled outside air pipe socket (2).

Depending on the wood-burning stove design you may need to apply prepared apertures or install custom components.
9 Accessories

Floor protectors

The Max Blank floor protectors are a practical solution to protect the floor to the side and in front of the stove.

The floor protectors can be removed for cleaning and when stove is not burning.

10 Scope of Delivery

- Frankfurt wood-burning stove
- Lining of the Combustion chamber
- Installation and operating instructions
- Assembly instructions with type plate
### 11 Product data sheet

| Name or trademark | Max Blank GmbH  
Klaus-Blank-Straße 1  
D-91747 Westheim |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Model identifier</td>
<td>KO6-E (Frankfurt)</td>
</tr>
<tr>
<td>Energy efficiency class</td>
<td>A</td>
</tr>
<tr>
<td>Direct heat output</td>
<td>10,0 kW</td>
</tr>
</tbody>
</table>
| Indirect heat output  
(indicate if applicable) | N.A.                               |
| Energy efficiency index  
(EEI) | 103,1                                          |
| Fuel energy efficiency at  
nominal heat output  
and optionally | 78,0 %                                         |
| Fuel energy efficiency at  
minimum load | N.A.                                        |
| Notes on special arrangements for  
assembly, installation or  
maintenance of the  
individual room heater | - The fire protection and safety distances among other combustible materials have to be strictly adhered to!  
- The fireplace must always be able to supply sufficient combustion air. Air-exhaust systems can disturb the combustion air supply! |
If you require customer service, please contact your specialist retailer
(see manufacturer’s stamp)

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service@maxblank.com  www.maxblank.com

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