



Instructions for use

Multi-fuelled sauna heater

FinTec LORA Robust (800.920.030)

FinTec LORA Banja (800.920.031)

FinTec LORA Loko (800.920.034)

FinTec LORA Solar (800.920.033)

FinTec LORA Swing (800.920.032)

FinTec LORA Loko MH (800.920.035)



**Made
in
Germany**

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Introduction

With a FinTec wood-burning sauna heater, you have purchased a high-quality product that has been handcrafted in Germany. You can expect simple operation and a long service life from the sauna heater.

For your own safety, you should read these instructions carefully, follow them and keep them in a safe place. Our guarantee of faultless operation only applies if the following guidelines are observed.

Approval and acceptance



NOTICE!

Wood-burning sauna heaters are generally subject to authorisation by the local district chimney sweep.

Therefore, please contact them before starting the construction work and submit your construction project to them in detail, presenting these instructions and the corresponding certificate of conformity.

If you do not know your district chimney sweep, you can find all the necessary address details at <http://www.schornsteinfeger.de/>.

Type plate

A type plate in accordance with DIN EN 15821 is supplied with your sauna heater. This must be kept during the service life of the sauna heater and presented to the chimney sweep if necessary.

Basic information



WARNING!

This sauna heater is only intended for heating the sauna cabin. Any other use is considered improper use! Intended use also includes compliance with the standard operating, maintenance and servicing instructions. The manufacturer is not liable for deviating, unauthorised modifications and any resulting damage, but the person responsible for the damage is.



CAUTION!

Installation should only be carried out by specialists in fireplace and stove construction or by specialised sauna builders. This is the only way to ensure a safe, professional and high-quality installation - which you will enjoy for many years to come.

We will be happy to provide you with the relevant contacts who can help you with planning, approval and subsequent assembly.

Safety instructions:



WARNING!

Please read these instructions carefully before commissioning!



WARNING!

Multiple-fired sauna heaters require approval from the responsible district chimney sweep.



WARNING!

It is forbidden to use the sauna heater for purposes other than heating sauna rooms.



WARNING!

To prevent fires, the stove must not be covered or hung up.



WARNING!

The surface of the stove, like the stones, can become very hot and cause burns if touched.



WARNING!

Use an infusion ladle with a long handle.



WARNING!

Do not leave the oven unattended at any time.



WARNING!

Do not use the sauna if you are under the influence of alcohol, medication or other intoxicants.



WARNING!

Children and people with physical disabilities should always consult their doctor before their first sauna session.



WARNING!

Never use the sauna heater without **sauna stones**, as this can lead to fires. Only use high-quality sauna stones from FinTec Sauna- und Wellnesstechnik GmbH. The use of unsuitable stones may invalidate the warranty. Never use ceramic stones or other inferior stones.

Firewood

Dry wood is the best material for heating the stove. Dry, split firewood sounds when it is struck against another piece. The moisture content of the wood has a considerable influence on how clean the combustion is and how efficiently the stove works. You can light the fire with birch bark or with newspaper. There are big differences between the calorific values of the different types of wood. To achieve the calorific power of birch wood, for example, you need approx. 15 % less beech wood.

Take a sauna safely please



WARNING!

Elderly people, pregnant women, people with heart problems, blood pressure problems, diabetes or similar illnesses should speak to their doctor before visiting a sauna.



DANGER!

Smoking is not permitted inside the sauna.



WARNING!

A sauna session directly after heavy physical activity should be avoided.



WARNING!

Taking a sauna under the influence of alcohol should be avoided.



WARNING!

Leave the sauna if you feel unwell or nauseous.



CAUTION!

Ensure that your sauna is supplied with sufficient fresh air.
A good sauna climate only exists if there is sufficient supply and exhaust air available. Follow the sauna supplier's instructions. Furthermore, a wood-burning stove needs oxygen for combustion. This air must also be able to flow in through the supply air opening.



CAUTION!

No one should be in the sauna when it is first heated up as this can lead to unpleasant odours and nausea in sensitive persons. The sauna should be constantly ventilated during the first heating up. Only when there are no more unpleasant odours should the heater be heated for the sauna bath.

Dimensions & safety distances

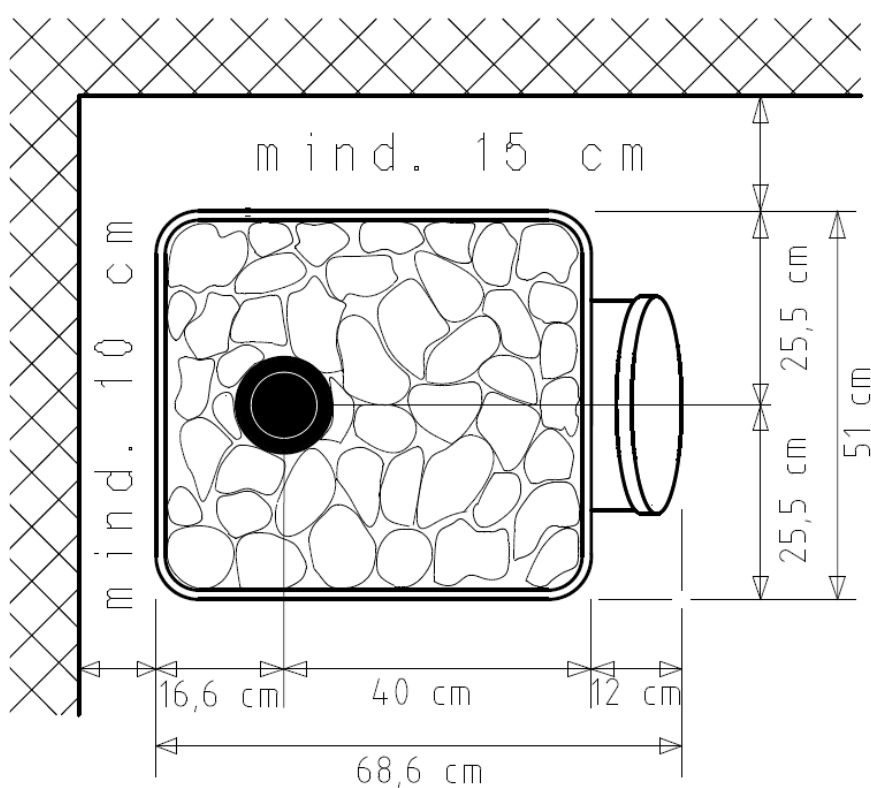


Figure 1: Dimensions and lateral safety distances

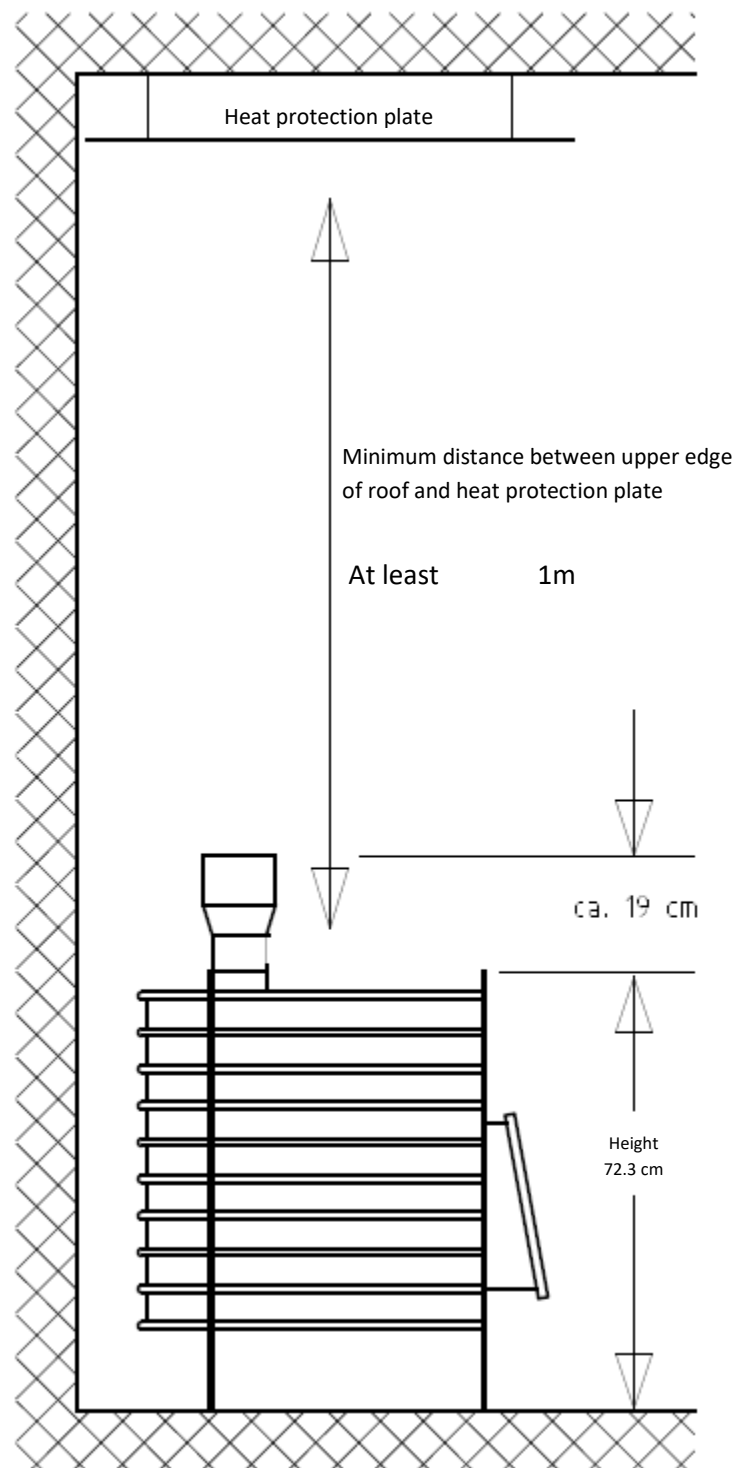


Figure 2: Dimensions and safety distances to the ceiling

Product description

Sauna heater

Our multi-fuelled sauna heaters have been developed for use in private and commercial saunas. The heater output is sufficient to heat a sauna with a volume of 8 - 16 m³ to a temperature of +120°C.

If the desired temperature is not reached, the insulation of the sauna must be improved. The temperature of the sauna must not exceed 120°C.

The sauna heater consists of a combustion chamber surrounded by sauna stones. There is an additional heat exchanger in the upper part of the combustion chamber which must be completely surrounded by sauna stones.

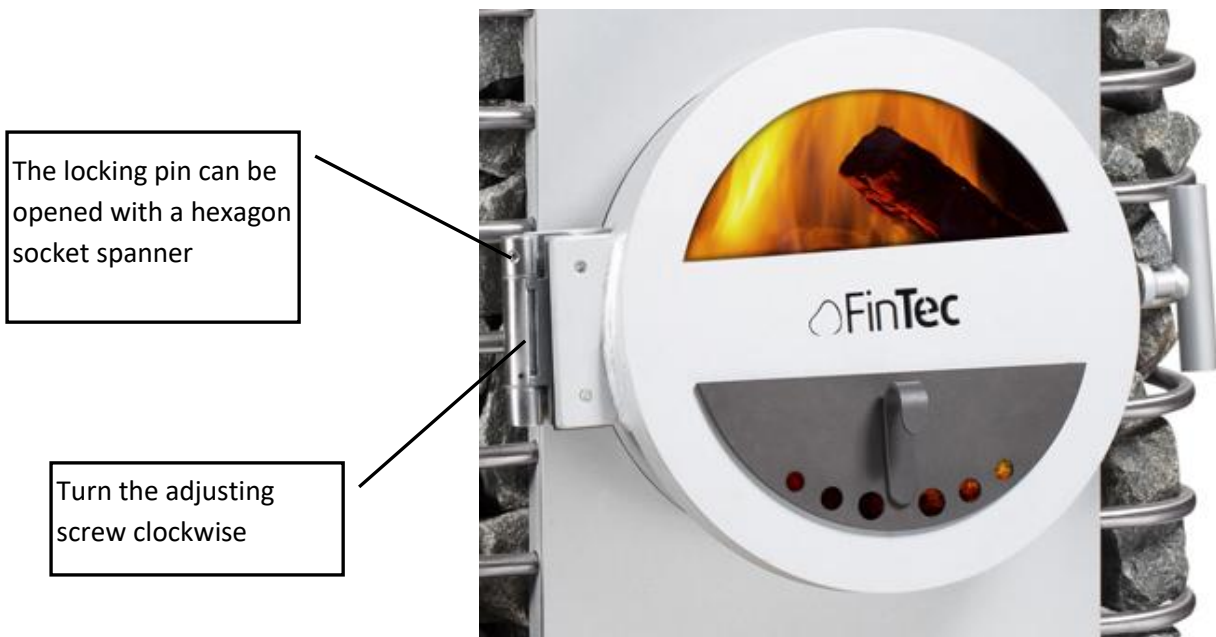
The sauna heater has a DN130 flue pipe connection, allowing the flue gases to be discharged upwards or via the rear of the sauna heater using a 90° flue pipe angle.



Spring hinge

The spring hinge can be retensioned or released as required. After a few years of use, the spring force of the hinge can decrease, which requires the tension spring to be retensioned.

1. To do this, first unscrew the locking pin using a hexagon socket spanner
2. The adjusting screw on the top of the hinge must be tightened using a slotted screwdriver. To do this, turn the screw clockwise. While holding the spanner, tighten the locking pin again.



Level levelling Door seal

During operation, the door seals may settle slightly. This can be remedied by removing spacer plates. The door hinge is screwed onto two spacer plates, one 1 mm and one 2 mm thick. The door can be removed by simply loosening the two fixing screws and removing one or both spacer plates as required. The door can then be reattached.

Requirements for the sauna room

For efficient combustion and a healthy sauna climate, a sufficient air supply must be guaranteed. In addition, it must be noted that FinTec sauna heaters are always dependent on room air! In principle, a sauna room should have a 5 to 6-fold air exchange every hour.

For this purpose, a supply air opening with a cross-section of at least 150 cm² (15 x 10 cm) must be provided in the sauna wall behind the sauna heater. An opening of the same size must be created on the opposite wall as an exhaust air opening, whereby this should be realised approximately 10 cm below the ceiling.

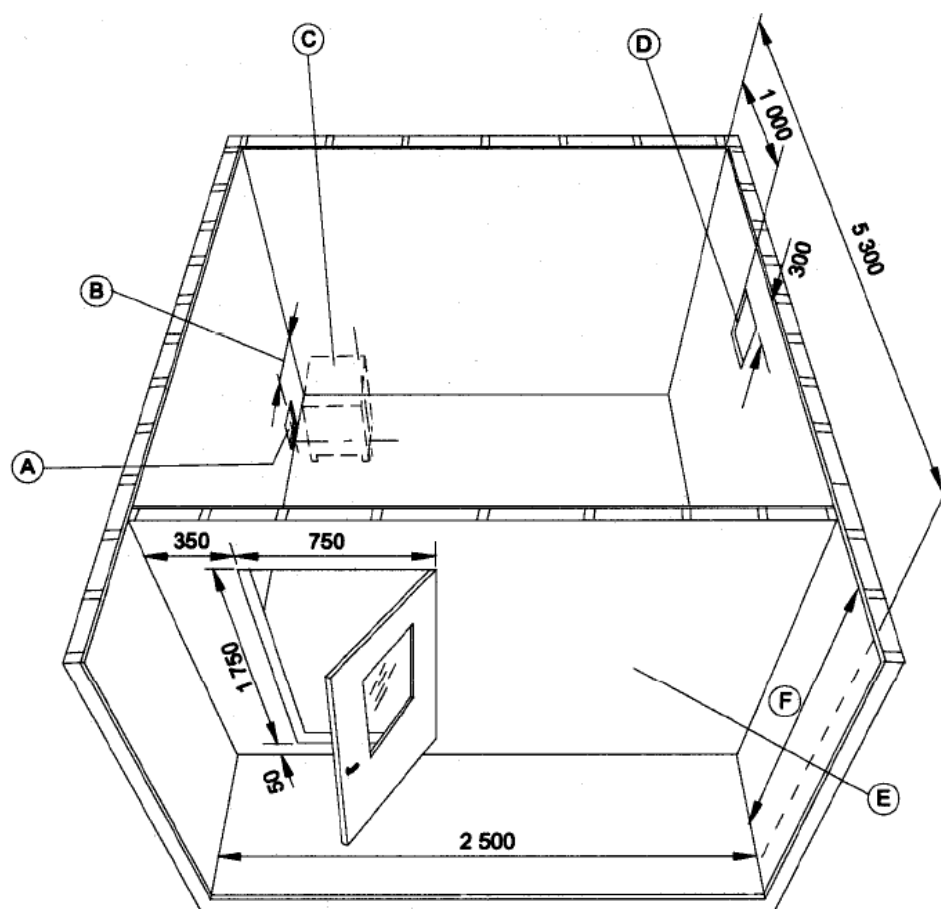


Figure 3: Fresh air duct

Legend:

- | | |
|--------------------------------|------------------------|
| A: Fresh air supply | D: Exhaust air opening |
| B: Safety distance to the wall | E: Front wall |
| C: Multi-fired sauna heater | F: Side wall |

Installing the sauna heater

You have already clarified the compatibility of the sauna heater with the chimney with your responsible chimney sweep before purchasing. He will check compliance with the building regulations. Please refer to the table for the technical data that you and your chimney sweep require.

Observe all European and national regulations as well as all local regulations. Ensure that sufficient fresh air is available for combustion. Check that the substructure can withstand the weight of the sauna heater. When installing on wooden floors, a fire protection plate must be placed under the fire door.

The connecting pieces between the fireplace and the chimney should be as short as possible and laid in an ascending position. Connecting pieces with a cleaning opening must be used.

1. Place the stove in its final position. You can hold the stove by the pipes and transport it.



2. Connect the flue pipes.
3. Check that the stove is level and that the flue pipes are securely connected.
4. Start filling the stone basket.
5. Place the stones on the pipes below the combustion chamber and ensure that the combustion chamber is always surrounded by stones. There must be no gaps, otherwise the heat from the stove will ignite the floor.
6. Fill the stone basket to the top. Make sure that the heat exchanger/flue pipe auger is well covered with stones.

Safety distances



WARNING!

Compliance with local regulations is mandatory.



WARNING!

In Germany, multi-fuelled sauna heaters must be approved and authorised by the responsible district chimney sweep.

The following safety distances must be observed at all times!

Safety distances to combustible materials from/to the stove (mm)					
Model	Page	Oven protection grille (air purged)	Backside	Ceiling	Floor
Premium wood-fired sauna heater	150	100	100	1000	0 ⁽²⁾

Tabel 1: Distances

Flue pipes

To connect the sauna heater, you need flue pipes (DN 130) that are approved for temperature class T400. It is imperative that you observe the safety distances specified by the manufacturer of the flue pipes!

Chimney system

FinTec sauna heaters can be connected to any commercially available chimney system. It does not matter whether the chimney is made of solid brick or a stainless steel outdoor chimney is used. However, the following basic requirements must be met:

- The chimney used must be of temperature class T400.
- The chimney must be installed in accordance with the DIN 18160 standard and the applicable firing regulations.
- Please refer to the relevant firing regulations for information on wall ducts and safety distances.

In general, we recommend that you contact your local district chimney sweep BEFORE carrying out any construction work. Provide him with our declaration of conformity, these instructions and all available data on the existing or planned fireplace.

Initial commissioning

The lacquer coating on the sauna heaters, like that of most wood-burning stoves, is baked on during the initial heating phase. This can temporarily release harmful substances or decomposition products. This can (but does not have to) manifest itself in the form of smoke and odours.

To avoid a health hazard, inhalation of the escaping substances should be avoided and adequate ventilation provided. Ideally, the devices should be 'run in' by a specialised company.

We recommend heating up the sauna heaters slowly at first and then operating them at maximum load temperature for a longer period of time (at least 1 hour).

No one should be in the sauna when it is first heated up, as this can lead to unpleasant odours and nausea in sensitive persons. The sauna should be constantly ventilated during the first heating-up period. Only when there are no more unpleasant odours should the heater be heated for the sauna bath.

Suitable fuels

The sauna heater is only suitable for burning natural logs. Classic sauna heater wood is birch and beech. According to the Federal Immission Control Act, firewood may only have a maximum residual moisture content of 20%.

Regular operation of the sauna heater

The sauna heater may only be operated with firewood. Under no circumstances may materials with a higher burning temperature (plastic, coal, etc.) be used.

A good air supply is ensured if the ash box is pulled out slightly. If the air supply is too high, this will result in a higher burning temperature, which may affect the service life of the heater.

Procedure

1. Before commissioning, the combustion chamber must be emptied and half-filled with dry logs.
2. Use commercially available kindling to light the fire in the combustion chamber
3. Close the stove door and lock it. Open the ventilation slider until it engages in the end position.
4. After the fire has come to a standstill, the ventilation slide closes automatically and the fire switches to an efficient and ecological burning process
5. Approx. minutes after lighting, the wood should have burnt down as far as possible. Carefully open the stove door and add another 3 to 4 logs until the stove is half full of wood again.

6. Start with sauna airing.
7. Only add more wood when the fire has burnt down. This should be the case at intervals of approx. 35 to 45 minutes.
8. 60 minutes before the end of the sauna session, please switch off the heater by not adding any more wood.
9. Empty the heater the following day after the embers have gone out completely. Use the enclosed poker and a metal bucket to do this.

Infusion water

Only clean water should be used for the sauna infusion. Salt water and water with a high limescale content will significantly reduce the service life of the sauna heater and should therefore not be used.

Sauna stones

Please do not tip or fill the stones into the heater under any circumstances, but place them carefully piece by piece into the stone container. The stones should be placed loosely in the heater so that air can circulate easily.

Depending on use, sauna stones must be replaced from time to time. We recommend replacing the stones completely every 18 to 24 months. For commercial use, we recommend replacing the stones completely after 12 months at the latest. Only quality sauna stones from FinTec Sauna- und Wellnesstechnik GmbH should be used.

Maintenance

For easier cleaning of the sauna heater, we recommend installing a flue pipe with a cleaning opening directly after the exhaust gas connection on the sauna heater!

The stove and sauna heater should be cleaned at regular intervals depending on use.

Only remove ash when the heater is cold. Only use metal tools for this and place the ash in a metal bucket. Only pour the ash into the waste bin when it is absolutely cold and there are no more embers in it.

The combustion chamber must be cleaned regularly of combustion residues, depending on how dirty it is. Cleaning should be carried out at least once a year.

The seals used are asbestos-free. Seals are wearing parts and must be replaced depending on use.

Soot deposits may occur depending on the fuel and stove operation.



NOTICE!

The sauna stones should be checked once a year and replaced if necessary.

FinTec - Factory guarantee

The proof of purchase must always be presented in order to claim guarantee services.

The FinTec guarantee extends to the free repair of the appliance or the faulty parts. Entitlement to free replacement exists only for those parts that show defects in material and workmanship. All direct labour and material costs incurred to rectify this defect will be covered. Further claims are excluded.

The factory guarantee is 24 months and begins on the date of delivery, which must be proven by an invoice or delivery note.

All functional faults that are attributable to manufacturing or material defects despite correct connection, proper handling and compliance with the installation instructions will be rectified under the factory guarantee.


Utilisation of the factory guarantee does not extend the guarantee period either for the FinTec oven or for newly installed parts. Replaced parts become our property. The spare parts required for the repair and the labour time involved will not be charged.

We are not liable for damage and defects to appliances and their parts caused by

- Incorrect choice of size
- Non-compliance with our installation and operating instructions, the applicable building regulations and local regulations.
- Making changes to the appliances,
- Use of unsuitable fuels
- Incorrect operation and overloading and the resulting overheating of the appliances
- Wear of parts directly exposed to the flames (e.g. steel and glass).
- Wear of the sauna stones

We are not liable for direct or indirect damage caused by the appliances. This also includes room soiling caused by organic dust particles and discolouration of the wood.

Declaration of Conformity

	
Type of fireplace	Multi-fuelled sauna heaters for the use of natural logs for space heating in buildings
Admissible fuels	Split logs (split logs)
Fire safety (ignition, endangers surrounding components)	Fulfilled (pass)
Combustion chamber door	Self-closing for multiple occupancy (self closing door)
	FinTec Lora wood-burning sauna heater FinTec Banja wood-burning sauna heater
Distance to combustible building materials (cm) <ul style="list-style-type: none"> - To the front - To the side (sidewise from the mesh frame) - To the back (to the back from mesh frame) - To the ceiling from the top edge of the stove (The ceiling must be suspended with a radiant protection plate (25 mm rear ventilation). (up to the ceiling from upper end of the heater. The ceiling should be covered with an radiation shilding with an air gap of 25mm to the ceiling) - To the bottom (under the heater) 	<div>30</div> <div>15</div> <div>10</div> <div>100</div> <div>0</div>
Efficiency (Efficiency)	% % 78.1
CO-Emission (CO-Emission)	mg/m ³ - 13 % O ² mg/m ³ - 13 % O ² 1184
Dust (Dust)	mg/m ³ - 13 % O ² mg/m ³ - 13 % O ² < 20
Thermal output (Thermal output)	kW kW 14.6
Flue gas temperature (Fuel gas temperatur)	°C °C 304
Mass flow (Fuel mass flow)	g/s g/s 11.9
Flue pressure (Flue draught)	Pa Pa 11.0
Fuel rate (Fuel rate)	kg kg 4.5
Durability (Durability)	Fulfilled pass

The safety instructions in the installation and operating instructions supplied with the product must be observed.
(Follow the safety information in the installation and operation instructions)

Contact us

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