

Instructions for installation and operation – IKI wood-burning stoves

Before you begin installing the stove, pay attention to the following points:

- **Read through this installation manual before you begin the installation of the heater**
 - **Beware of the sharp edges of the stainless steel mesh. Use a long-sleeved shirt and protective gloves during the installation**
 - **The warranty does not cover defects caused by faulty installation or misuse of the stove**
-

IKI-Kiuas Ltd. technical support

Tel: 0400 504 143

e-mail: jari@ikikiuas.com

IKI-Kiuas Oy

Hakaniemenkatu 11

00530 HELSINKI

e-mail: ikikiuas@ikikiuas.com

www.ikikiuas.com

List of contents

Page 2

Installation

Page 3

Pictures of the installation

Page 4

Safety distances

Page 5

- Instructions for installation

- Instructions for bathing

Page 6 and 7

Instructions for sweeping

Page 8

- Warranty

- Requirements for water quality

- Contact information

Installation of Original IKI and Maxi IKI stoves

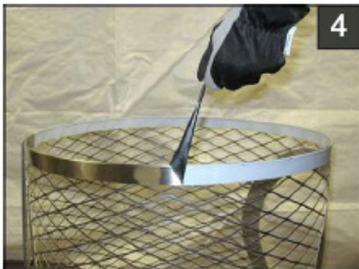
1. Check that all the necessary parts for the stove are included in the delivery: 2 concrete legs, 2 wooden handles for the door, fire plate, soot trowel (Picture 1).
2. Position the fire box on top of the two supporting legs on a steady fireproof surface close to the stove's final placement (Picture 2). Pay attention to the required safety distances.
3. Detach the door of the fire box from its hinges.
4. Remove the protective plastic coverings from all the parts of the stainless steel mesh frame (Picture 4). Pull the attachment strip off from the back of the mesh frame and remove the protective covering from the strip as well.
5. Fit the mesh frame around the fire box (Picture 5) and reattach the metal strip to the back of the frame (Picture 6). There should be approximately 5 cm of empty space left between the spiral fire pipe and the mesh frame (Picture 7). This will later be filled with stones.
6. Put the fire plate in its place in the front of the fire box. The plate will stop soot and cinders from falling out and also directs combustion air.
7. Make sure that the fire box is level. Reattach the door to the fire box (Picture 8). The door should lean back against the mesh frame and not fall down on its own.
8. Attach the flue connecting pipe to the chimney (Picture 9).
9. Carefully pile the stones inside the mesh frame one by one. We recommend olivine, olivine-dolerite and peridotite stones smaller than 10 cm in diameter. The stones should not be placed too tightly together to allow for free air flow between the stones. Note that the use of soapstone and natural stones is allowed only on the outer edges and on the top of the stove where they do not come into contact with the fire box.

Installation of Mini IKI, Semi IKI, Original IKI Plus and Maxi IKI Plus stoves

These stoves have a separate fire box and fire pipe and two pieces of stainless steel mesh frame. Follow steps 1–9 as described above with the Original IKI and Maxi IKI stoves. Note that the flue connecting pipe must be fitted to the chimney before the stones are piled in. When the stones have been piled in to the lower part of the stove, continue with the following steps:

1. The fire pipe extension must be measured and cut to correct length according to the safety distances. Attach the fire pipe to the connection opening in the fire box (Picture 10).
2. Fit the mesh frame around the extended fire pipe (Picture 11).
3. The stones should be piled to the upper part of the mesh frame one by one making sure that the stones cover the fire pipe evenly on all sides. (Picture 12). The frame starts to set in place when there are about 10 cm of stones inside it. It is recommended that there are two people working together during this process, one to hold the frame, the other piling in the stones.
4. If the chimney is located directly on top of the stove, the upper mesh frame can be turned upside down so that the exit hole for the 90-degree pipe is hidden in to the lower part of the stove and is not visible.

Pictures of the installation

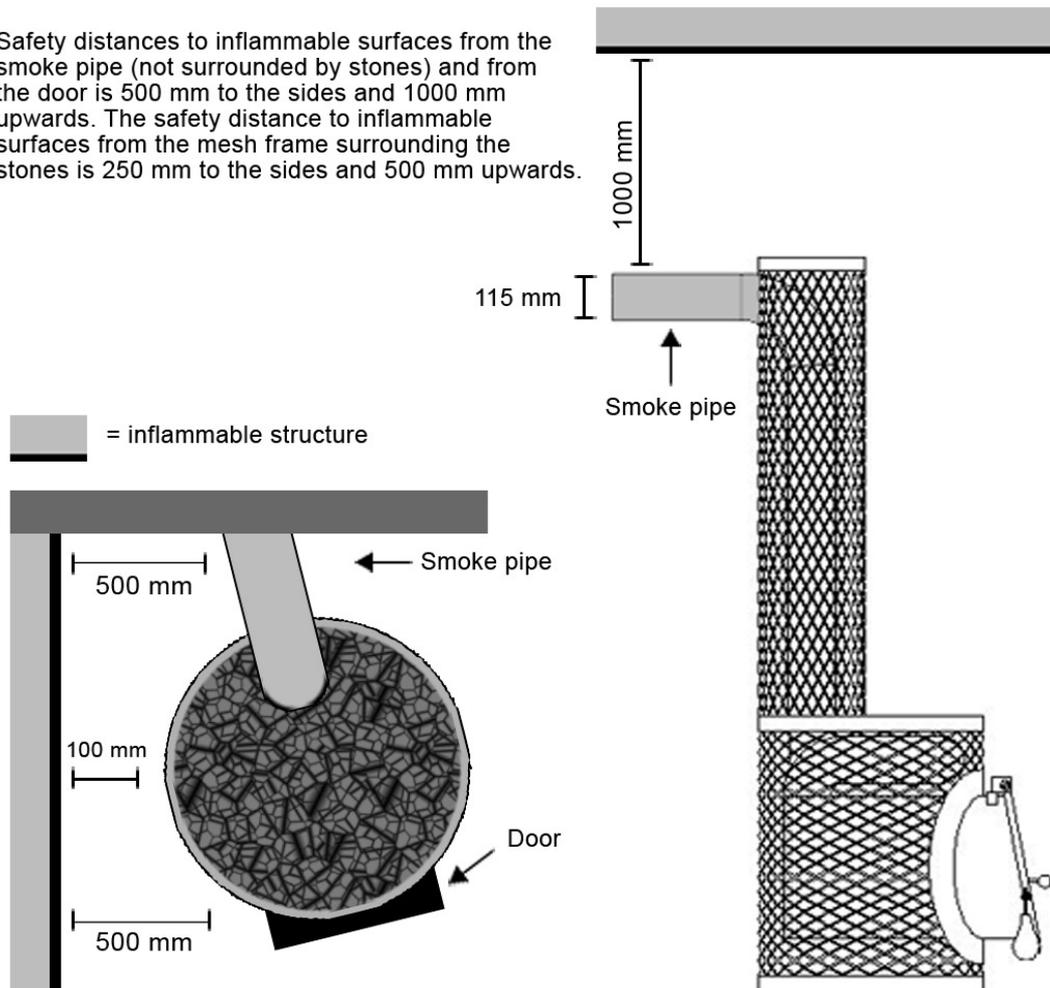


Safety distances

Safety distances to inflammable structures are measured from the mesh frame outwards:

At the back	In the front	Upwards	To the sides
min. 100 mm	min. 500 mm	min. 1000 mm	min. 100 mm

Safety distances to inflammable surfaces from the smoke pipe (not surrounded by stones) and from the door is 500 mm to the sides and 1000 mm upwards. The safety distance to inflammable surfaces from the mesh frame surrounding the stones is 250 mm to the sides and 500 mm upwards.



Note that the safety distances can be reduced by 50% using protective sheathing or by 75% with double-sheathing. You can use 7 mm thick light fibre-reinforced cement plate or 1 mm thick stainless steel protective sheath. Both require a 30 mm air gap between the sheath and the inflammable surface. Double sheathing can be obtained using two layers of protective sheathing. The sheaths can be attached to one another with a 30 mm air gap in between the two and another 30 mm gap between the sheath and the surface that requires protection.

The area between the fire box and the mesh frame must be fully covered by stones.

The smoke pipe can also be covered by stainless steel mesh and laden with stones. This reduces safety distances to inflammable surfaces by 50% to 500 mm upwards and 250 mm to the sides.

Instructions for installation

IKI wood-burning stove can be installed into a) a brick flue b) ceramic flue or c) an air-ventilated flue. With any other type of flue, please contact the manufacturer to discuss compatibility.

We recommend installing a damper to adjust draught in the flue. IKI stoves have no ash box or grate. Mini IKI and Semi IKI both have a "nose" hatch for controlling draught, Original IKI and Maxi IKI do not require this feature.

In privately-used saunas in recreational use, the chimney must be swept every three years. Privately-used saunas as well as communally-used saunas in frequent use require sweeping once a year. The diameter of the outer surface of the pipe is 115 mm.

Storing combustible materials (such as fuels) close to the fire space is forbidden.

All sootfires, even exhausted ones, must be reported to the fire authorities.

Heat up the stove once before bathing to burn off protective oil solvents. **Note that afterwards you need to air the sauna room well.**

Instructions for bathing

The heating time for IKI stoves is about one hour depending on the size of the room and its ventilation. The recommended bathing temperature is 50–70 degrees Celsius.

When adding more wood into the fire during bathing, lightly sweep the existing embers towards the fire plate in the front of the fire space. Pile wood on top of the embers in the front and middle of the fire space.

We recommend filling the fire space no more than 2/3rds full of wood (see picture below).

Throwing water on the stove increases the temperature and the humidity in the sauna. The top of the pillar of stones creates more heat, while the sides create a gentler steam. Throwing seawater on the stove is forbidden.

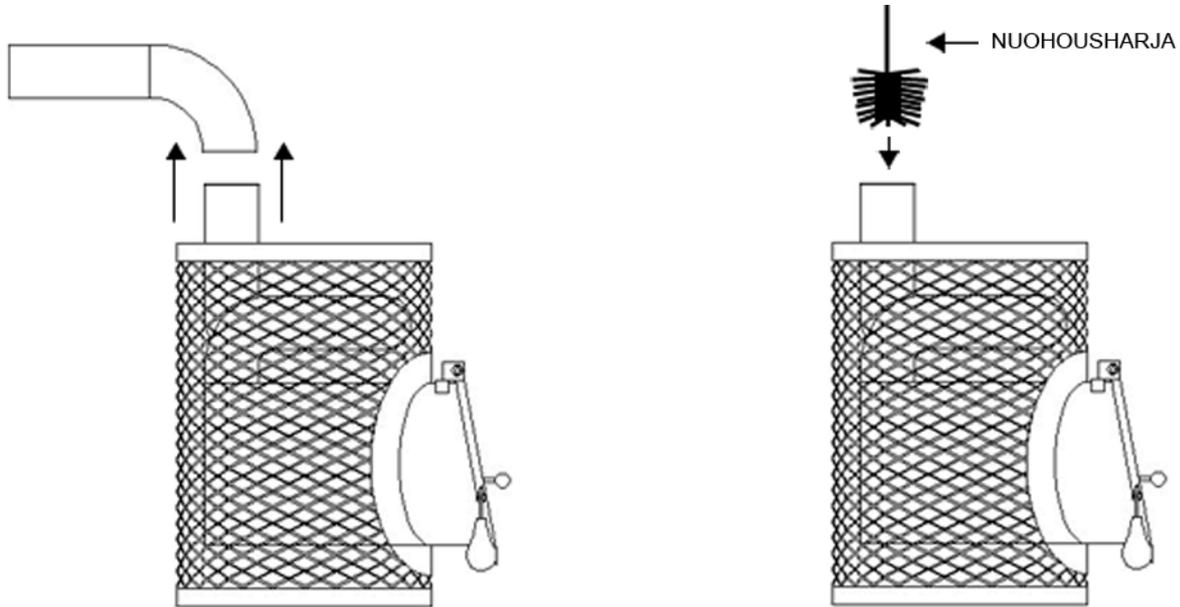
NOTE that the stove door may change color after a while in use and the paint may wear off. The door can be repainted with heatproof paint that can withstand temperatures up to 600 degree Celsius. Before painting the door, the surface must be polished and wiped clean of all traces of oily substances.



Instructions for sweeping

Wear a long-sleeved shirt and protective gloves while dismantling, sweeping and assembling the stove.

Original IKI and Maxi IKI



1. Detach the smoke pipe.

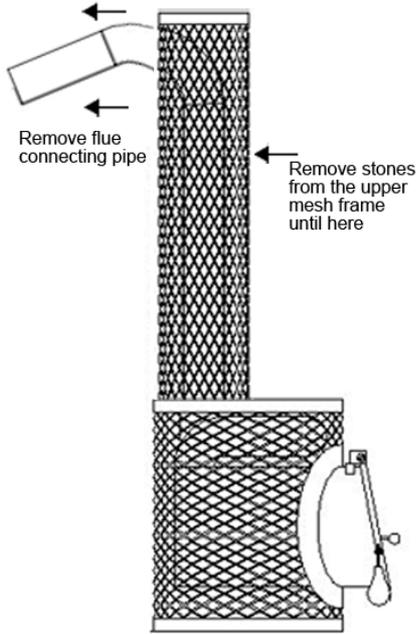
2. Spray or pour water into the pipe and use a sweeping brush to clean the inside of the smoke pipe. Note that the spiral smoke pipe requires a brush that bends.

3. Use the trowel to scrape the soot from the fire space into a container. If you are using water, place a large bucket in front of the door before you pour in the water.

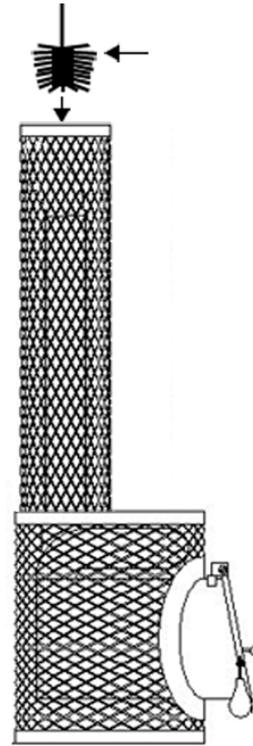
Dismantling, sweeping and assembling the stove should take about 30–60 minutes all in all.

Mini IKI, Semi IKI, Original IKI Plus and Maxi IKI Plus

OPTION 1

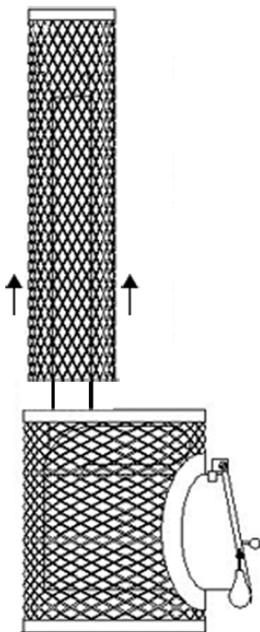


Remove flue connecting pipe

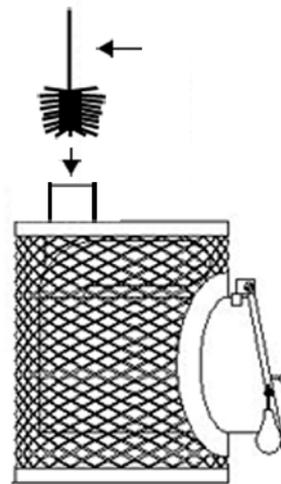


Remove the stones from the upper mesh frame until you reach the connection to the smoke pipe. Detach the pipes.

OPTION 2



If the sweeping brush is short, continue removing the stones from the upper part of the mesh frame. When you no longer reach the stones from above, slide the frame upwards and start removing the stones from underneath it.



Remove the upper mesh frame and detach the pipe. Sweep the fire pipe following the directions given above with the Original IKI and Maxi IKI. Dismantling, sweeping and assembling the stove takes 1–2 hours all in all.

Warranty

Warranty period

The warranty period is one year from the day of delivery. The warranty covers Finland only.

Quality guarantee

During the warranty period any defects that appear in the heater's raw materials or are production-based will be replaced or fixed free of charge.

Throwing sea water on the heater is forbidden. The warranty does not cover color changes, slipping or hair-line fractures in the stones, which do not affect the use or the safety of the heater.

Damage occurred while shipping needs to be recorded in the waybill when the product is received or within 7 days of delivery. Shipping damage must also be reported to the shipping company's last contact. The damaged part needs to be stored for inspection. Insurance compensates for the new part, which will be delivered by a public transporter. In all issues concerning warranty contact the store the product was bought from.

This instruction for installation and operation manual is given to the owner/user of the stove after installation.

Requirements for water quality

Water property	Effects	Recommendation
Humus concentration	Color, taste, precipitates	<12 mg/l
Iron concentration	Color, smell, taste, precipitates	<0,2 mg/l
Hardness: most important substances are manganese (Mn) and lime, i.e. calcium (Ca)	Precipitates	Mn: <0,05 mg/l Ca: <100 mg/l
Chlorinated water	Risk to health	Use is completely forbidden
Seawater	Fast corrosion	Use is completely forbidden

Contact information

IKI-Kiuas Ltd. IKI-KIUASKAUPPA /Sales

Hakaniemenkatu 11 00530 Helsinki

Business hours: Mon-Fri 10-17

tel +358 40 412 7673 **fax** 09 442 917 **mail** ikikiuas@ikikiuas.com

Technical support

tel +358 400 504 143 **mail** jari@ikikiuas.com

Production and storage

Pälkäneentie 5 00510 Helsinki

Pick-up times: Mon-Fri 9-17

tel 040 412 7123 **fax** 09 710 026 **mail** timo@ikikiuas.com