

OPERATING AND INSTALLATION INSTRUCTIONS

CLASSIC INSERT



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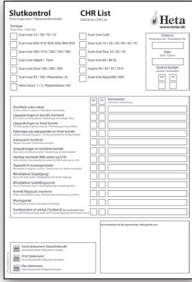


EN

DANISH DESIGN . DANISH QUALITY . DANISH PRODUCTION

Congratulations on your new wood stove insert, we are confident that you will be more than satisfied with your new Heta stove. Especially if you follow the following advice and instructions.

The Classic Insert stove is approved according to EN 13229. These approvals, means that the wood stove insert meets a variety of specifications and requirements, ensuring it is made of quality materials, minimum environmental impact and that it has an optimum fuel economy.

With your new wood stove you should find the following:

<p>Operating / Instruction manual</p>		<p>Q.C. check</p>	
<p>Heta glove</p>		<p>Data plate</p>	

Required tools are not supplied.

INSTALLATION INSTRUCTIONS

Safety clearances

Stoves must always be installed in line with national and, if applicable, local regulations. It is important to abide by local regulations regarding setting up chimneys and connection to same. Therefore, always consult your local chimney sweep before installation, as you are personally responsible for ensuring that the applicable regulations have been met.

Distance regulations

A difference applies to installation next to flammable and non-flammable walls.

If the wall is made of non-flammable material the stove can, in principle, be placed flush against it. However, we recommend leaving a gap of at least 5 cm to facilitate cleaning behind the stove.

The minimum distances to flammable material are stated on the boiler plate and are listed in the table on page 6.

Warning



A stove gets hot. (In excess of 90 degrees) Take care to ensure that children cannot come into contact with it.

Combustible materials should not be stored in the compartment below the ashpan.

IMPORTANT

1. Make sure there is adequate provision to sweep the chimney.
2. Make sure there is adequate ventilation to the room.
3. Please note that any extraction fans operating in the same room as the wood-burning stove can reduce the chimney draft – which may have an adverse effect on stove combustion properties. In addition, this may cause smoke to be emitted from the stove when the firing door is opened.
4. It must not be possible to cover any air vents.

Floor

You must ensure that the floor can support the weight of the stove and a top-mounted steel chimney.

In front of the fireplace insert, the substrate must consist of non-combustible material, for ex. Steel/glass plate, stone or tile floor. The size

of the non-combustible surface must follow the applicable national and local regulations. Protecting your floor from embers that may fall out of the oven.

Distances see data table page 6.

Distance from flammable floor: 350 mm.

Pay special attention to the distance from flammable floor, which is also valid even if there are a steel, glass, stone or tile over flammable materials. It is the floor itself, which must be non-flammable. (Concrete, tile or similar).

The chimney connection

The chimney opening must follow national and local regulations. However, the area of the opening should never be less than 175 cm², which corresponds to a diameter of 150 mm. If a damper is fitted in the flue gas pipe, there must always be at least 20 cm² of free passage, even when the damper is in its “closed” position.

Wood-burning stoves must never be connected to chimneys that are also linked to a gasfired heater.

An efficient stove makes high demand on chimney properties – so always have your local chimney sweep evaluate your chimney.

Connection to a brick chimney

Brick a thimble into the chimney and seat the flue gas pipe in this. The thimble and flue gas pipe must not penetrate the chimney opening itself, but must be flush with the inside of the chimney duct. Joins between brickwork, the thimble and flue gas pipe must be sealed with fireproof material and/or beading.

Connection to a steel chimney

When fitting a connection from a top-output stove directly to a steel chimney, we recommend fitting the chimney tube inside the flue gas spigot so that any soot and condensation drops into the stove itself rather than collecting on the exterior surface of the stove.

For connections to chimneys that are run through ceilings, all national and local regulations regarding distance to flammable material must be followed. It is important that the chimney is fitted with roof support so that the top panel of the stove is not required to bear the entire weight of the chimney (excessive weight may damage the stove).

Draft conditions

Poor draft may result in smoke being emitted from the stove when the door is opened. The minimum chimney draft to ensure satisfactory combustion in stoves of this kind is 12 PA. However, there will still be a risk of smoke emission if the firing door is opened during powerful firing. The flue gas temperature at nominal output is 284°C when expelled to an exterior temperature of 20°C. The flue gas mass flow is 6 g/sec. The chimney draft is generated by the difference between the high temperature of the chimney and the low temperature of the fresh air. The length and insulation of the chimney, wind and weather conditions also have an effect on the ability of the chimney to generate appropriate under-pressure.

If the stove has not been used in a while, check that the chimney and stove are not blocked with soot, bird nests, etc., before using it.

Reduced draft can occur when:

- The difference in temperature is too small – due to insufficient chimney insulation, for example.
- The outdoor temperature is too high – in summer, for example.
- No wind is blowing.
- The chimney is too low and sheltered.
- The chimney contains false air.
- The chimney and flue gas pipe are blocked.
- The house is too airtight (i.e. when there is an insufficient supply of fresh air).
- Poor smoke extraction (poor draft conditions) due to a cold chimney or bad weather conditions can be compensated for by increasing the airflow into the stove.

Good draft occurs when:

- The difference in temperature between the chimney and outdoor air is high.
- The weather is fine.
- The wind is blowing strongly.
- The chimney is of the correct height: at least 4.00 m above the stove and free of the roof ridge.

INSTRUCTIONS FOR USE

First firing

The stove paint is fully cured from the factory, but a minor unpleasant odour could still arise.

Fuel

Your new stove is EN approved for firing with wood fuel. You must therefore only burn clean, dry wood in your stove. Never use your stove to burn driftwood, as this may contain a lot of salt which can damage both the stove and the chimney. Similarly, you must not fire your stove with refuse, painted wood, pressure-impregnated wood or chipboard, as these materials can emit poisonous fumes and smoke. Correct firing using well seasoned wood provides optimal heat output and maximum economy. At the same time, correct firing prevents environmental damage in the form of smoke and emissions and also reduces the risk of chimney fires. If the wood is wet and inadequately seasoned, a large proportion of the energy in the fuel will be used to vaporise the water, and this will all disappear up the chimney. Thus it is important to use dry, well seasoned wood, i.e. wood with a moisture content of no more than 20%. This is achieved

by storing the wood for 1–2 years before use. Pieces of firewood with a diameter of more than 10 cm should be split before storing. The pieces of firewood should be of an appropriate length so that they can lie flat on the bed of embers. If you store your wood outdoors, it is best to cover it.

Examples of recommended woods types

and their typical specific gravity per cubic meter stated as 100% wood with a moisture content of 18%

Wood	kg/m ³	Wood	kg/m ³
Beech	710	Willow	560
Oak	700	Alder	540
Ash	700	Scotch pine	520
Elm	690	Larch	520
Maple	660	Lime	510
Birch	620	Spruce	450
Mountain pine	600	Poplar	450

It is advised not to use very oil-containing woods like teak tree and mahogany, as this can cause damage to the glass.

Heating value in wood

You have to use about 2.4 kg normal wood to replace one litre of heating oil. All woods have almost the same heating value per kg, which is about 5.27 kW/hour for absolute dry wood. Wood with a moistness of 18% has a efficiency of about 4.18 kW/hour per kg, and one litre heating oil contains about 10 kW/hour.

CO₂ release

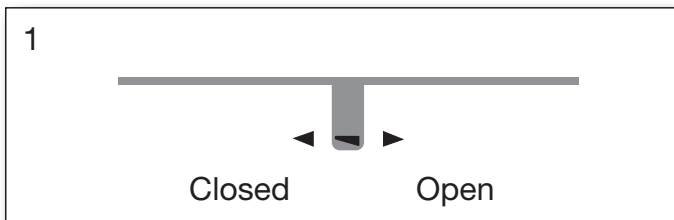
At combustion 1000 litres of heating oil forms 3.171 tons CO₂. As wood is a CO₂ neutral heat/energy source, you save the environment about 1.3 kg CO₂ every time you have used 1 kg normal wood.

Chimney fires

In the event of a chimney fire – which often results from incorrect operation or protracted firing with moist wood – close the door and shut off the secondary/start-up air supply to smother the fire. Call the fire department.

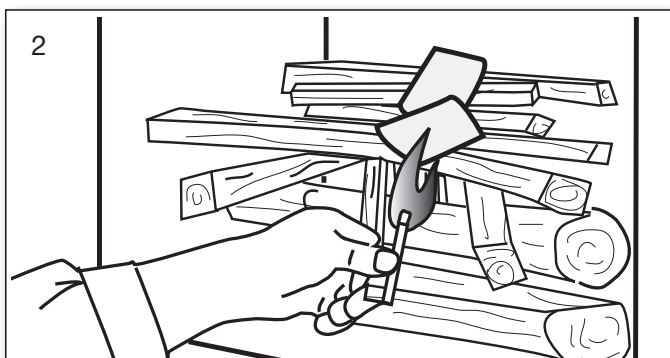
Regulating the airflow

To adjust combustion airflow, use the handle at the front under the door. Combustion air flow is fully open when the handle is as far as possible to the right. To close gradually, slide the handle to the left. Fig. 1.



Lighting the stove

Place two pieces of wood on the bottom. Stack kindling on top in layers with air between. Setting fire starter (bag, brick, paraffin) on the top, now you are ready to light the fuel. The flames must work from the top down.



The use of lighter fluid, oils or any liquid fuels is strictly forbidden from use in a wood stove.

Fully open the combustion air and leave the door ajar (about 1 cm open).

Once the fire is established and the chimney is hot (after about 3-5 minutes) closed door and regulate the air into operating position. We recommend, all of the first fuel is burned with the combustion air fully open in the operating position. This ensures the stove and chimney are thoroughly heated.



Startup/Lighting
Scan the code and select a language.

Refueling

Refueling of your stove should be done while there is still a good layer of embers. Distribute the embers with the majority of them to the front. Place pieces of wood equivalent to about 1,7 kg. on top of the embers perpendicular to the door.

Open the combustion air completely and possibly the door ajar (it is not necessary to keep the door ajar, but it can accelerate the ignition of the wood).

The wood will then ignite within a very short time (Typically 1 to 3 minutes). Once the fuel is ignited. Close the door and regulate the air back to operating air. When the fire is well established, you can now regulate the operating air to the desired combustion level.

Nominal heat out-put is 7 KW, equivalent to the operating air at about 80% open.

Ensure when refueling that the wood is not too close, it will cause poorer combustion, less heat out-put and lower efficiency.



When refueling be careful to place the fuel into the combustion chamber gently, (use the provided glove). By not doing so you risk cracking or breaking the vermiculite.

If there is reduced draft in the chimney, we recommend opening a window at stoking. This will give better ventilation to the room and more oxygen for combustion.

Reduced burning

The stove is well suited to intermittent use. If you wish to operate the stove with reduced output, simply insert smaller volumes of wood at each firing, and apply a lower airflow. However, remember that the secondary combustion air supply must never be shut off completely during firing. It is important to keep a good bed of embers. Gentle heat is released when the fire settles - i.e. when the wood no longer generates flames and has been converted to glowing embers.

Optimal firing

To achieve optimal firing and the highest possible effect, it is important to make sure that the air supply is used correctly. As a general rule, the secondary air is to be used to control the fire to ignite the flue gases. This produces a high effect and keeps the glass panel completely clear of soot as the secondary air “washes” down over it. Please note that the stove will, naturally, produce soot if both the start-up mechanism* and secondary air intakes are closed completely. This

will prevent oxygen from being drawn into the stove, and the viewing window and other parts will become covered with soot. If this situation is combined with firing with wet wood, the build-up of soot can become so thick and sticky that the sealing rope can, for example, become detached when the door is opened the next day.

Risk of explosion



After you add new fuel, it is very important that you do not leave the stove unattended until the wood is burning constantly.

This will normally occur within 30 to 60 seconds. A risk of explosion can possibly arise if too much wood is placed in the stove. This may result in the production of large volumes of gas, and this gas can explode if the intake of primary and secondary air is insufficient.

It is an advantage always to leave some ash lying in the bottom of the combustion chamber.

Take care when emptying the ash pan, as cinders can continue to burn in the ash for long periods of time.

Stove data table in accordance with EN 13229 testing

Stove type	Nominal fluegas temperature, at 20°C room temperature C°	Smoke stub mm	Fuel volume kg	Draught min mbar	Nominal output tested kW	Heat output kW	Distance to flammable materials in mm		Distance to furnitures from the stove mm	Stove weight kg
							behind the stove	at the sides		
Classic	284	ø150	1,7	0,12	7	7	60	80	1200	95

The nominal output is the output to which the stove has been tested. The test was carried out with the secondary air 100% open.

Operational problems

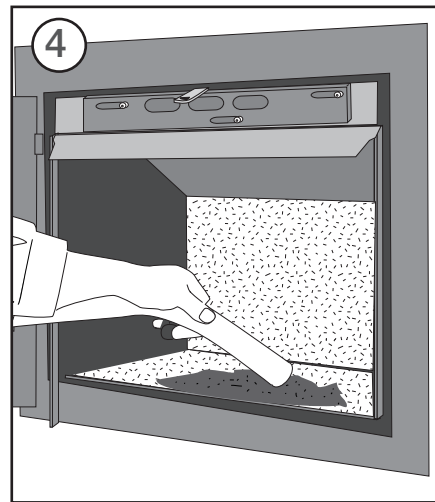
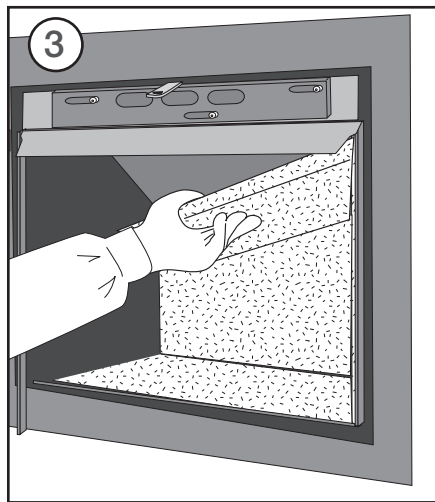
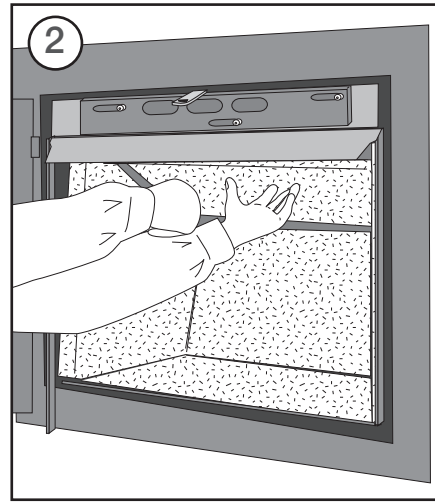
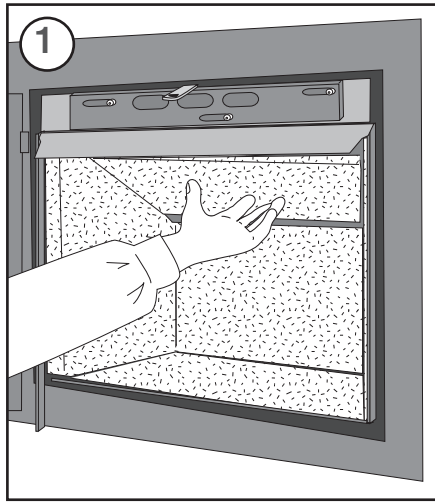
The chimney must be swept at least once a year, we recommend the use of a NACS (national association of chimney sweeps) registered chimney sweep. In the event of smoke or malodorous fumes being produced, you must first check to see whether the chimney is blocked. The chimney must, of course, always provide the minimum draught necessary to ensure that it is possible to regulate the fire. Please note, however, that chimney draft is dependent on the weather conditions. In high winds, the draft can become so powerful that it may be necessary to fit a damper in the flue gas pipe to regulate the draft. When cleaning the chimney, soot and other deposits

may come to fall on the smoke turning plate. In cases where the wood burns too quickly, this may be due to excessive chimney draught. You should also check to make sure that the door seal is intact and correctly fitting.

If the stove is generating too little heat, this may be because you are firing with wet wood. In this case, much of the heating energy is used to dry the wood, resulting in poor heating economics and an increased risk of soot deposits in the chimney.

Check whether the air holes in the stones are blocked with for example ashes etc. Below the casted shaking grate is it possible to clean the air channel for the start-up airflow.

Cleaning after sweeping the chimney and replacing the stones



Maintenance

The surface of the stove has been treated with heat-resistant paint.

The stove should be cleaned with a damp cloth. Any damage to the surface in the form of chips or scratches can be repaired using touch-up paint, which is available in spray cans.

Guarantee

Heta wood stoves, subjected to a strict quality control during production and before delivery to the dealer.

Therefore, the stoves guarantee is

FOR FIVE YEARS

Against defects in manufacturing

The guarantee does not cover:

Wearing parts / fragile parts such as:

- Vermiculite stones in the combustion chamber, glass, seals and the casted bottom or shaking grate.

Cleaning the glass

Incorrect firing, for example using wet wood, can result in the viewing window becoming covered in soot. This soot can be easily and effectively removed by using proprietary stove glass cleaner.

- Damage caused by improper use.
 - Transportation costs for warranty repair.
 - Assembly / disassembly of warranty repair.
- Should you have cause to make a complaint, please quote our invoice no.

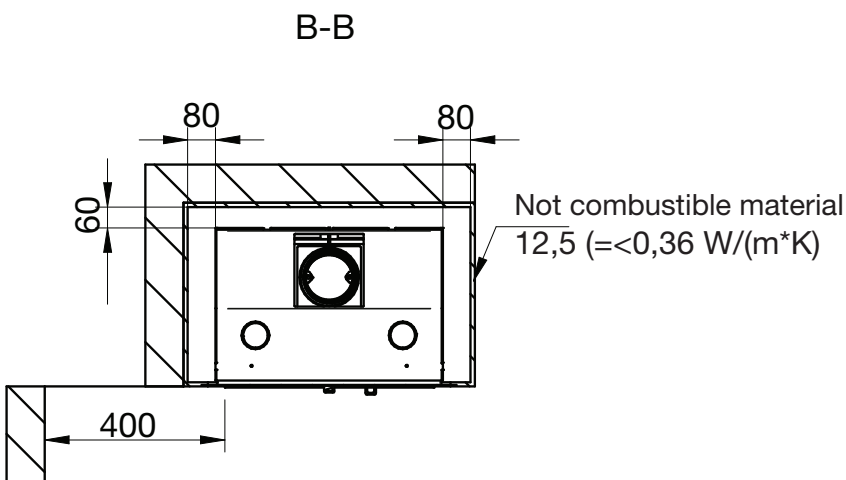
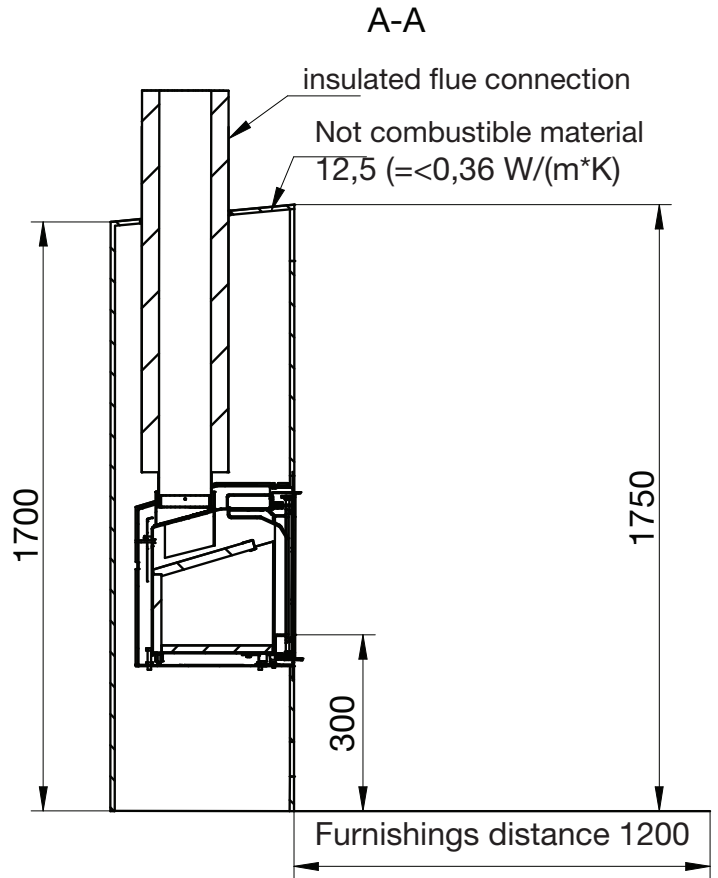
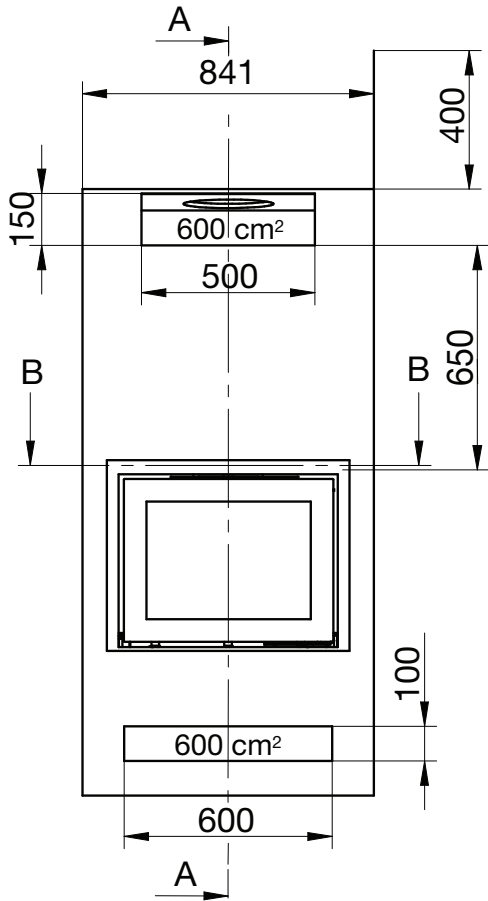
Warning



Any unauthorized alterations to the stove and the use of non-original parts will void the warranty.

Clearances for installation EN 13 229

The Building materials that are used in safety test and shown in illustrations on this page, has a thermal conductivity of max. ($= <0.36 \text{ W (m} \cdot \text{K)}$)



The dimensions are the minimum dimensions, unless otherwise stated.

Ecodesign
EU Declaration of Conformity

DoC Classic Insert 2165-2015

Product fiche



Manufacturer	Heta A/S
Adress	Jupitervej 22, DK 7620 Lemvig
E-mail	heta@heta.dk
Website	www.heta.dk
Telephone	+45 9663 0600

Model identifier	Classic Insert
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The identified product described above is in conformity with:
The relevant EU harmonized regulations:
DIR 2009/125/EF
REG (EU) 2015/1185
REG (EU) 2015/1186
REG (EU) 2017/1369
REG (EU) 305/2011
The relevant harmonized standards
EN 13229:2001/A1:2003/A2:2004
CEN/TS 15883:2010

Characteristics when operating with the preferred fuel only		
Heat output		
Item	Symbol	Value/Unit
Nominal heat output	P_{nom}	7 kW
Minimum heat output	P_{min}	
Useful efficiency (NCV as received)		
Useful efficiency at nominal heat output	$\eta_{th, nom}$	81%
Useful efficiency at minimum heat output	$\eta_{th, min}$	
Auxiliary electricity consumption		
At nominal heat output	$e_{l, max}$	- kW
At minimum heat output	$e_{l, min}$	- kW
In standby mode	$e_{l, SB}$	- kW


Type of heat output/room temperature control	
single stage heat output, no room temperature control	Yes
two or more manual stages, no room temperature control	No
with electronic room temperature control	No
with electronic room temperature control	No
with electronic room temperature control plus day timer	No
with electronic room temperature control plus week timer	No

Other control options	
room temperature control, with presence detection	No
room temperature control, with open window detection	No
with distance control option	No

Notified body relevant to the assessment and verification of constancy of performance
Danish Technological Institute, DK-8000 Aarhus No. 1235. Report no. 300-ELAB-2165-EN

Fuel	Preferred fuel	Other suitable fuel
Wood logs with moisture content ≤ 25 %	Yes	No
Compressed wood with moisture content < 12 %	No	No
Other woody biomass	No	No
Non-woody biomass	No	No
Anthracite and dry steam coal	No	No
Hard coke	No	No
Low temperature coke	No	No
Bituminous coal	No	No
Lignite briquettes	No	No
Peat briquettes	No	No
Blended fossil fuel briquettes	No	No
Blended biomass and fossil fuel briquettes	No	No
Other blend of biomass and solid fuel	No	No

Emissions at nominal heat output	η_s %	mg/Nm ³ (13 % O ₂)			
		PM	OGC	CO	NO _x
	≥ 65	≤ 40	≤ 120	≤ 1500	≤ 200
	71	31	53	708	100

Technical documentation	
Indirect heating functionality:	No
Direct heat output:	7 kW
Energy Efficiency Index (EEI):	EEI 107
Fluegas temperature at nominal heat output	T 281°C
Energy efficiency class	

Safety	
Reaction to fire	A1
Test of fire safety in connection with the burning of wood	Approved
Distance to combustible materials Rear. With insulation	Minimum distances in mm #
Sides distance to combustible materials	#
Furniture distance	1200

See Clearances for installation in instructions

Signed on behalf the manufacturer of 04.05.2022

The chimney sweep's signature Date _____

Signature _____

Heta A/s
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