OPERATING AND INSTALLATION INSTRUCTIONS

SCAN-LINE 7 SERIES

is exemt for use in smoke control areas when burning dry wood.

Scan-Line 7B

Scan-Line 7C

Scan-Line 7D

Scan-Line 7L

Scan-Line 7B/7L
solid base

www.heta.dk

ECODESIGN READY

HETA

EN

DANISH DESIGN . DANISH QUALITY . DANISH PRODUCTION

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

Scan-Line 7 series have been approved according to the EN 13240, NS 3058, NS 3059 and A15 Austria. These approvals, means that the wood stove 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.

Operating Instructions Contents

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Printed in Denmark
Subject to printing errors
and changes.

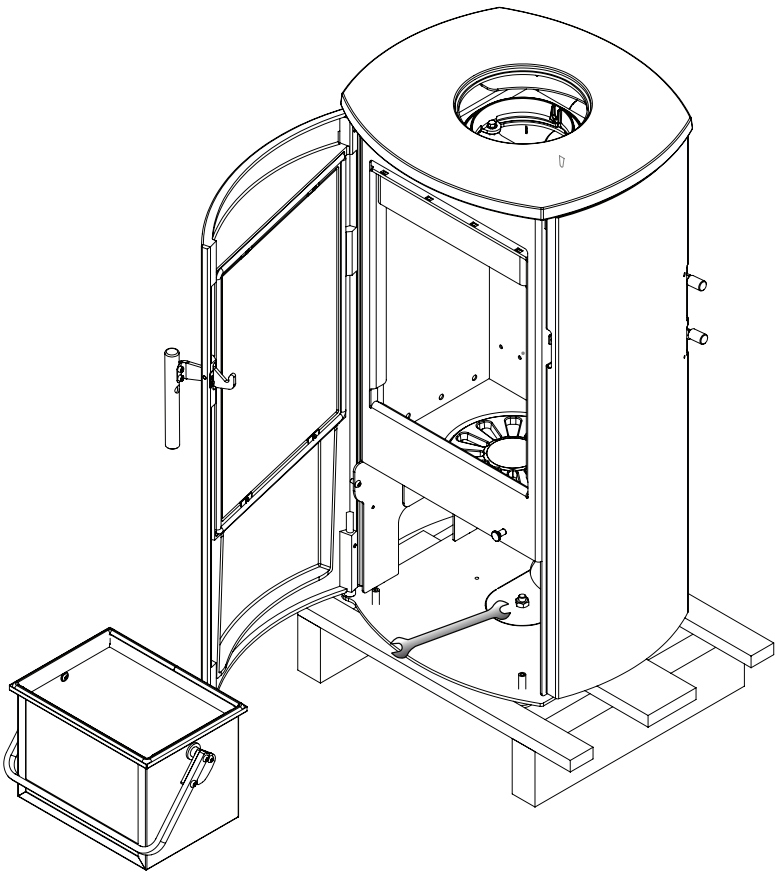
01.08.2024
0037-1505 Version 2,5

BEFORE INSTALLATION

Heta wood stoves are quality products, therefore, your first impression is very important! We have a good logistics network, which transports Heta products with great care for our dealers. Nevertheless, when in transport or handling, damage of the often-heavy stoves can occur. It is important that upon receipt check your Heta product completely and report any damage or defects to your dealer.

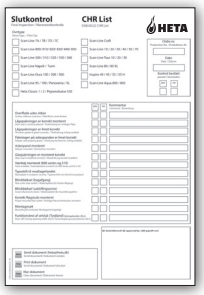
The packaging must be disposed of as follows:
Wood is untreated and able to burn in the stove.
Plastic and cardboard you can drop off at your local recycling center.

Unpacking the stove



With your new wood stove you should find the following:

Operating / Instruction manual	
Heta glove 0023-9002	

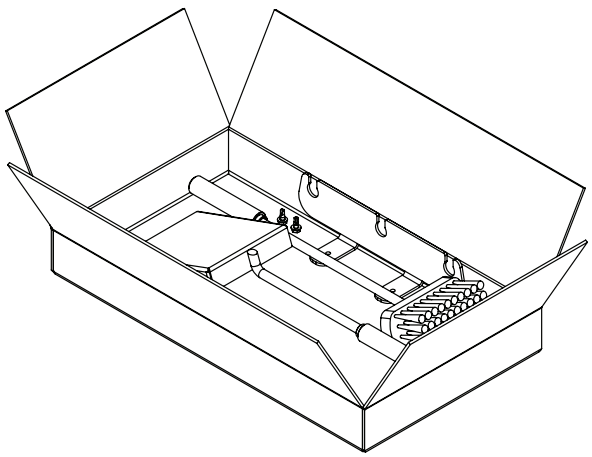
Q.C. check	
Data plate	

Required tools are not supplied.

Accessory
Tool set

Tool and tool holder for mounting on the back of the stove.

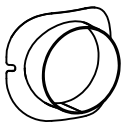
Nr. 6000-022625



Accessory

External air flow
Scan-Line 7D

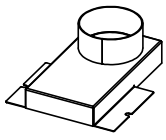
Nr. 1515-0011



Accessory

External air flow
Scan-Line 7B

Nr. 1515-0010



Accessory
Changing to a back flue outlet

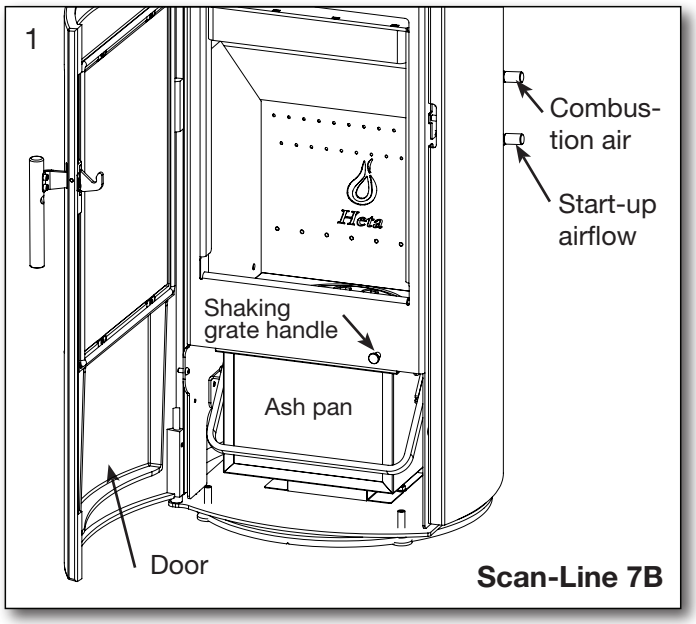
Nr. 0030-2410

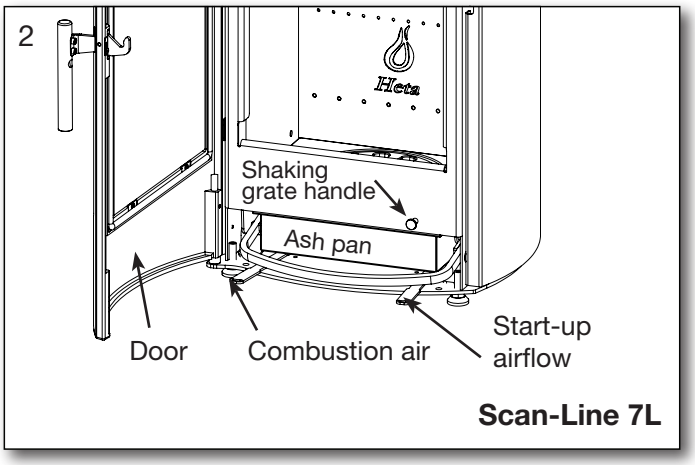
1. OPERATING INSTRUCTIONS

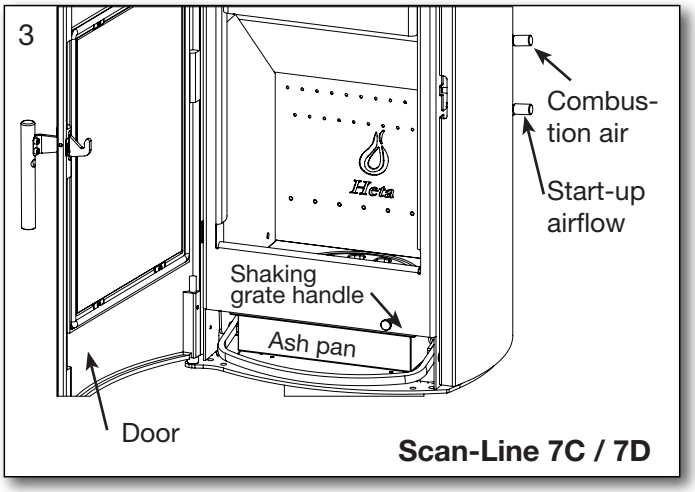
1.1 Before using

Before the wood stove is used make sure required installation conditions, are met.

See page 11.







1.2 First firing

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

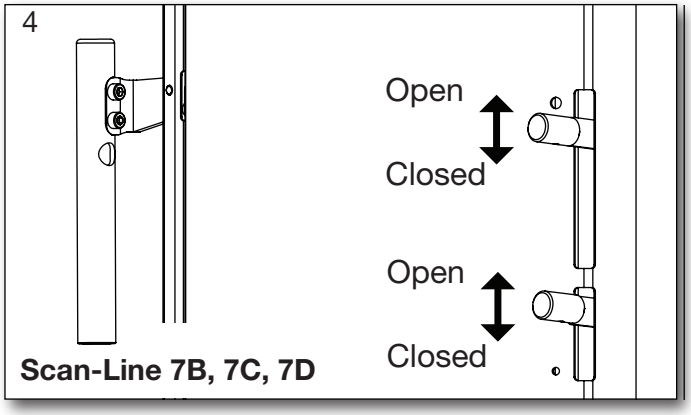
1.3 Regulating the air flow

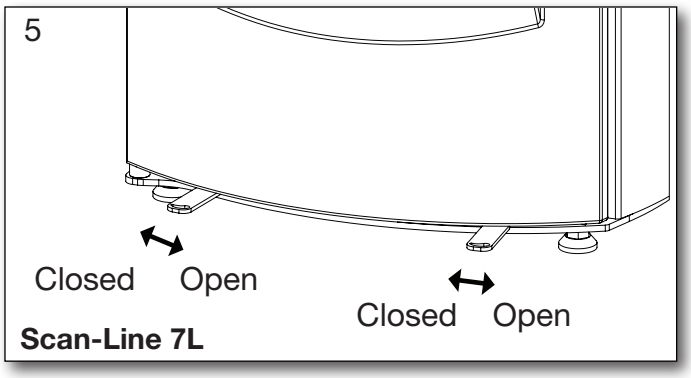
The stove is supplied air by means of the control handles placed at the back of the side panel of Scan-Line 7 B C D. See figure 4.

The combustion air handle is the upper handle and the one for the the start-up airflow is the one below. The combustion air is completely open in top position.

The combustion air is gradually closed during firing. The damper closes after start-up.

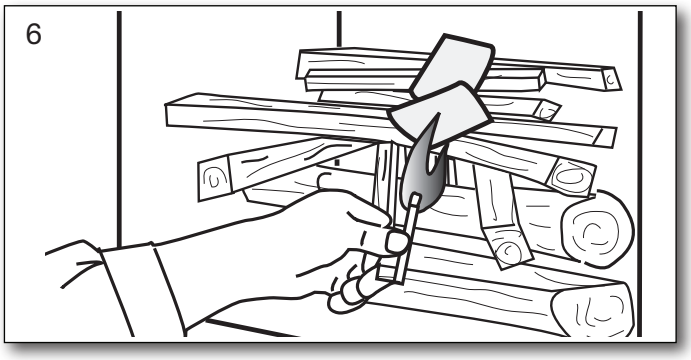
On the Scan-Line 7 L, the controls are located at the bottom of the front, combustion air to the left and start-up air to the right. See figure 5.
The combustion air is gradually closed during firing. The combustion air is completely open to the right.
Start-up air is completely open to the right.
The damper closes after start-up.





1.4 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. Fig. 6.



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

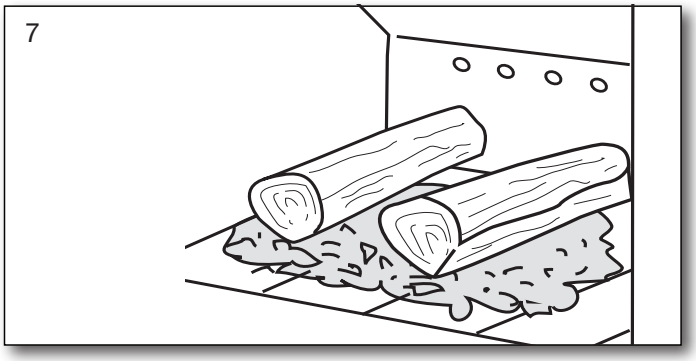
Fully open the combustion air and leave the door ajar (about 1 cm open).
Once the fire is established and the chimney is hot (after about 3-5 minutes) closed door and regulate the air into operating position. We recommend, all of the first fuel is burned with the combustion air/start up air fully open in the operating position. This ensures the stove and chimney are thoroughly heated.

The stove is safety tested with a load of 1.7 kg of wood.
The warranty will be voided if this amount is exceeded.

Startup/Lighting
Scan the code and select a language.

1.5 Refueling

Refueling of your stove should be done while there is still a good layer of embers. Spread the embers over the base grate, with most towards the front of the stove. Place pieces of wood equivalent to about 0.7 kg on top of the embers perpendicular to the door. See fig. 7.



Close the firing door and fully open the start-up mechanism. The wood will then ignite very quickly – i.e. in 30 seconds or 1 minute. When the wood is burning with a steady flame, close the start-up mechanism.

Then adjust the combustion air to the level required.

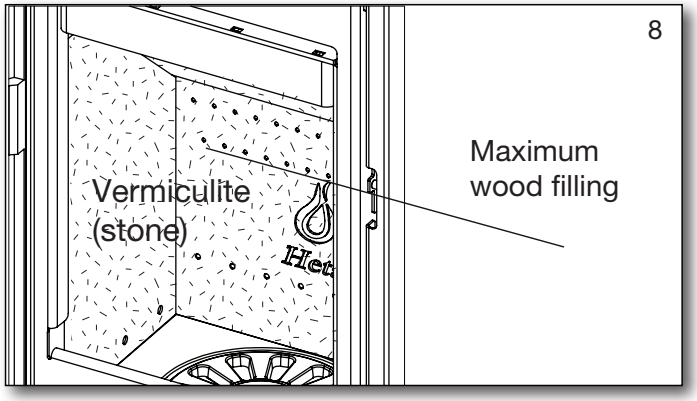
For nominal operation (4.5 kW), the combustion air supply should be 50% open. When firing, take care not to place the pieces of fuel too closely together, as this will result in poor combustion and insufficient exploitation of the fuel.

Please note that the start-up mechanism must not remain open during normal operation of the stove, as this may lead to overheating. It must only be used until the fuel is burning with a steady flame.

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.

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

The fuel load, must be maintained below the top series of air holes and within the outer vent in each side. Fig. 8.

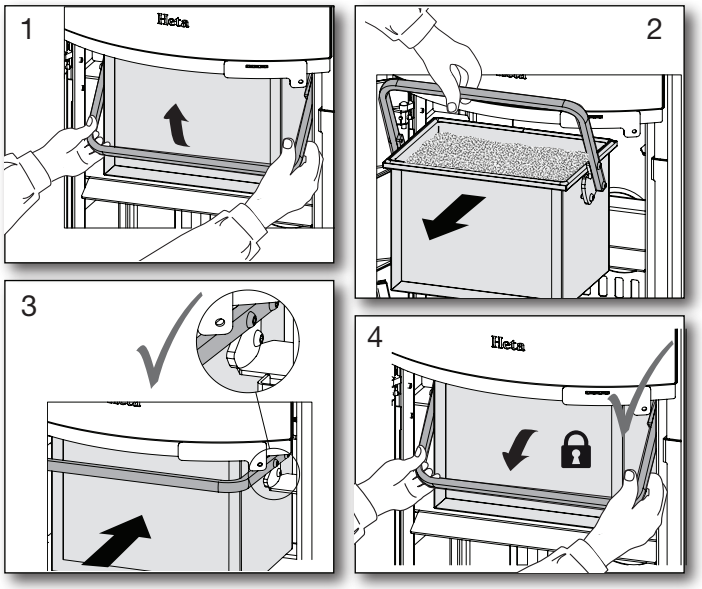


If there is reduced draft in the chimney, we recommend opening a window at stoking. This will give better ventilation to the room and more oxygen for combustion.

1.6 Emptying the ash

By using the shaker grate, it rotates back and forth so the ash falls through the holes and into the ashtray. It is advantageous to leave a layer of ash in the bottom of the combustion chamber on top of the grate as insulation.

Be careful when emptying the ashes out. There can be hot embers left for a long time.
Never empty ash into a combustible container.



The ash pan must be secure and must not be able to move after being locked.

Do not fire in the oven if the ash pan is not locked. The guarantee is void if it is not complied with. Fig. 1-4.

1.7 Reduced burning

The stove is, approved for intermittent use.

Never turn down the air down so much that there does not come any flames from the tree. Wait to close the air until the flames haveburnt out and the tree is transformed into glowing charcoal.

If you are looking for less heat out-put, achieve this by fueling with smaller volumes of wood and a lower operating air. You may not completely close the operating air during firing.

Be aware that the stove will naturally soot if the operating air is too low. This is not good for the environment. There is also a risk for the glass, the chimney and other parts will become sooted.

By a combination of the above and possibly burning damp wood. Can lead to high levels of soot that it becomes sticky. Causing the sealing of the door to tear off when opening the door the next day.

Never use the stove if the seals are loose.

1.8 Explosion!!!

It is very important never to leave The stove after start up or refueling, before the fire is established. (Typically 1/2 -1 minutes)

Explosion hazard may be possible, if filled with too much wood on the stove and the air supply is to low. As large amounts of gas are being developed and this may cause a flue gas explosion.

Warning!

One must always use cation around the stove seen, as it gets very warm during use. (In excess of 90° C).

Children should avoid contact with the stove. Setting up a fence if you have small children may be necessary. Do not place flammable objects like drying racks, furniture, curtains too close to the stove.

1.9 Draft conditions and the chimney

Poor draft will not allow the stove to burn, as it should. The glass can soot, requires cleaning of the chimney more often, smoke can escape out when the door is open and it gives poor fuel efficiency. Leading to unnecessary polluting of the environment.

Good draft will allow the stove to achieve optimal combustion and the highest possible efficiency. Heta wood stoves are constructed so that it itself provides an optimal blend of combustion air. This provides a high efficiency/heat, clean glass and low environmental impact.

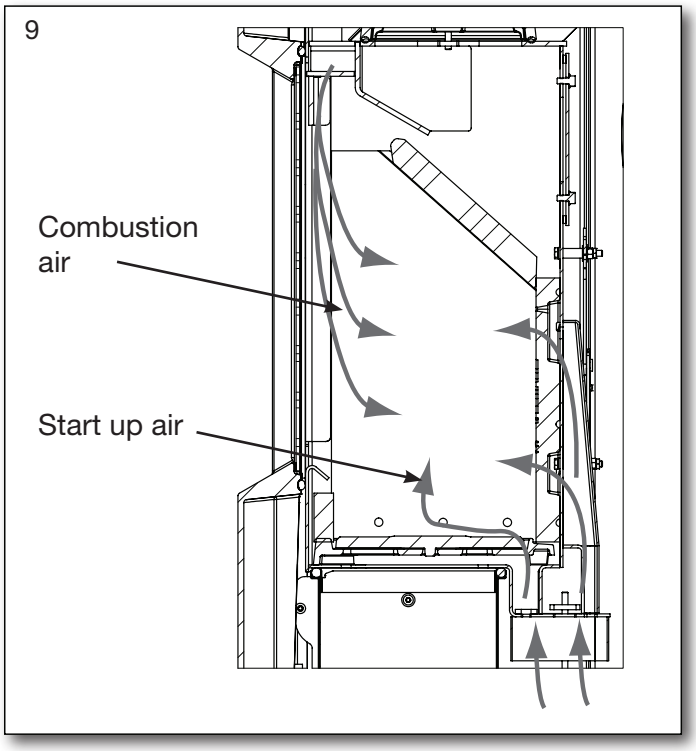
Minimum chimney draft: 12 pascal.

It is the draft that the stove has been tested and approved on. The minimum draft is necessary to provide clean burning, beautiful flame picture, as well as achieving the rated efficiency.

There is a risk of smoke escaping into the room if the door is opened during vigorous firing, or if there is a lack of air supply to the room, for ex. if an extraction fan is in use.

Nominal fluegas temperature:
243° relative to 20° C.
Flue gas flow is: 3.5 g/sec. Corresponding to 12.6 m^3/hr of combustion air by burning 0.99 kg of wood.

The chimney height and diameter, as well as the temperature difference between the flue gas and outside temperature generates the chimney draft. Chimney insulation is therefore important as new efficient stoves create lower flue temperatures. Wind and weather conditions also influence draft, in some cases it may be disadvantageous wind direction, combined with the



position of the chimney can cause negative draft (it blows through the chimney), causing smoke escape from the stove.

Before using after a long period of inactivity, check that the chimney is free for any blockages. (soot build-up, bird nests, leaves etc.)

Reduced draft can occur when:

- The temperature difference is too small between smoke gasses and outdoor temperature, for eg. poorly insulated chimney
- To short of a chimney
- The outside temperature is high, and indoor temperature is low for eg. in summer
- False air in the chimney
- Chimney is blocked
- Air tight house (lack of combustion air supply)
- Poorly placed chimney for the surroundings, for ex. the ridge and trees may cause turbulence

Good draft occurs when:

- The difference in temperature in the chimney (warmer) and outside temperature (colder)
- It is clear weather
- The chimney has the right height min 4 meters above the stove, and clear of the roof ridge.

1.10 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 efficiency. At the same time, correct firing prevents environmental damage in the form of smoke emissions and reduces the risk of chimney fires.

If the wood is damp and inadequately seasoned, a large proportion of the energy in the fuel will be used to vaporize the water and this will all disappear up the chimney. Thus, it is important to use dry, well seasoned wood, for eg. wood with a moisture content of less than 20 %. Achieve this 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 before storing. The pieces of firewood should be of an appropriate length (approx. 20 cm) 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 fuel values

for different woods and their typical densities per cubic meter, specified for 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 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.

CO_2 release

At combustion 1000 litres of heating oil forms 3.171 tons CO_2. As wood is a CO_2 neutral heat/energy source, you save the environment about 1.3 kg CO_2 every time you have used 1 kg normal wood.

1.11 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 are being produced, you must first check to see whether the chimney is blocked.

The chimney must, of course, always provide the minimum draft 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 baffle plate, remove and clean it. In cases where the wood burns too quickly, this may be due to excessive chimney draft. You should also check to make sure that the door seal and ash pan seal is intact and correctly fitting.

If the stove it 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 efficiency, potentially damaging the vermiculite and an increased risk of soot deposits in the chimney.

1.12 Chimney fire

In case of a chimney fire, which often results from incorrect operation/maintenance or prolonged use of damp wood, close the door and the air supply completely, to help slow/smother the fire.

Call the fire department. The stove and chiminey must be inspected before use again.

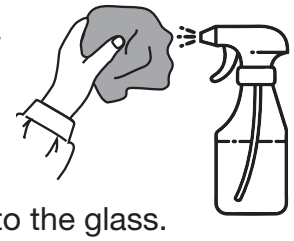
1.13 Maintenance

The surface of the stove is treated with a 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.

1.14 Cleaning the glass

Incorrect firing, for example using wet wood, can result in the viewing window becoming covered in soot.

This can be removed easily and effectively using glass cleaner applied using a cloth.

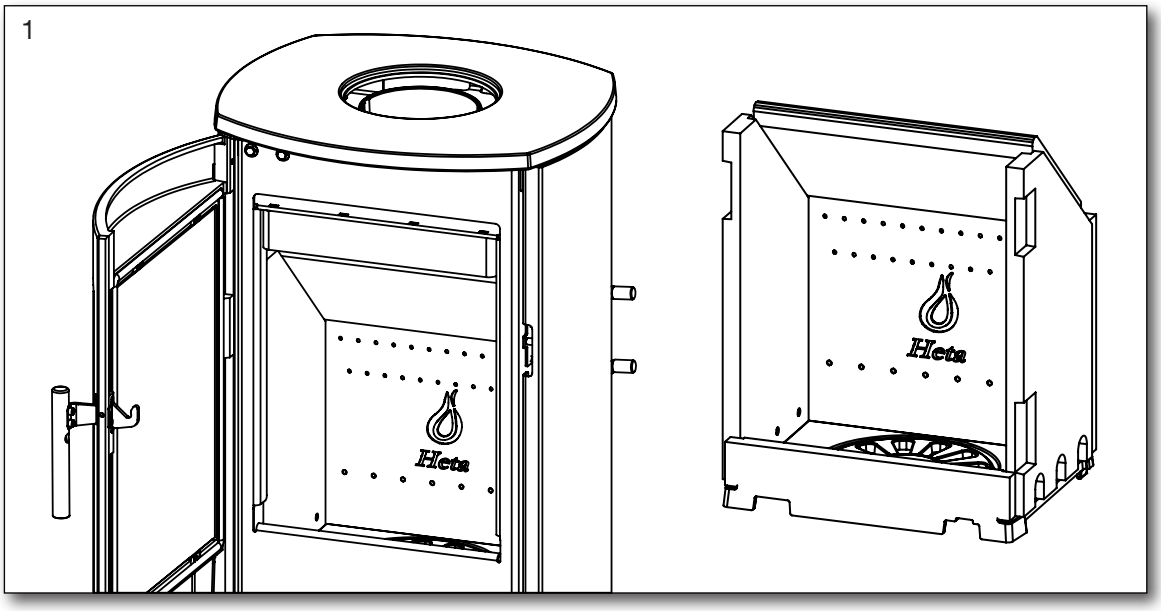


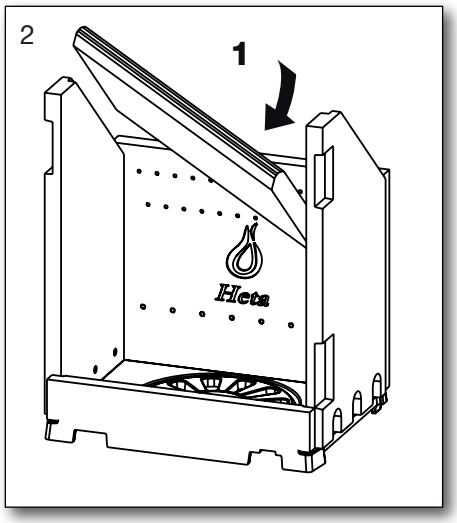
Never apply spray directly to the glass.

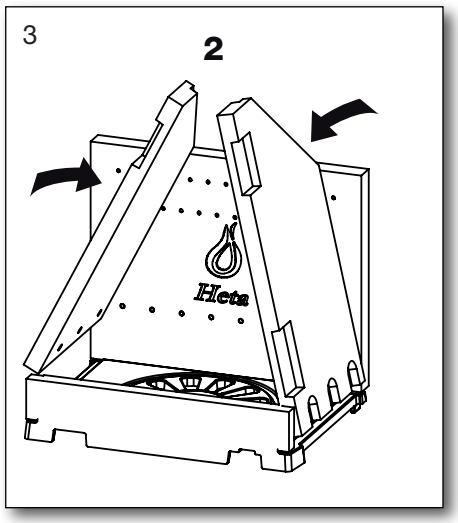
1.15 Cleaning after sweeping or before replacing vermiculite stones

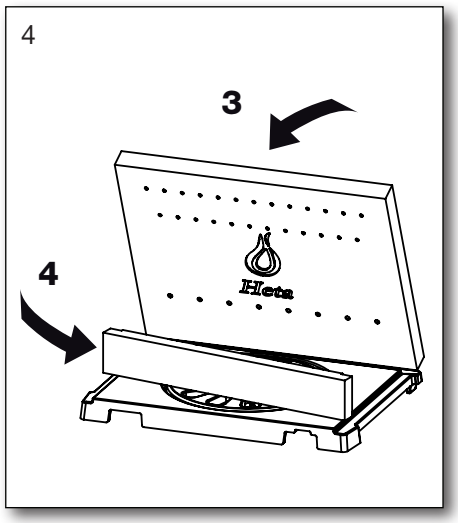
Note: it may be necessary to clean/vaccum the holes and air ducts behind the rear stone.

Order of removing Fire bricks.



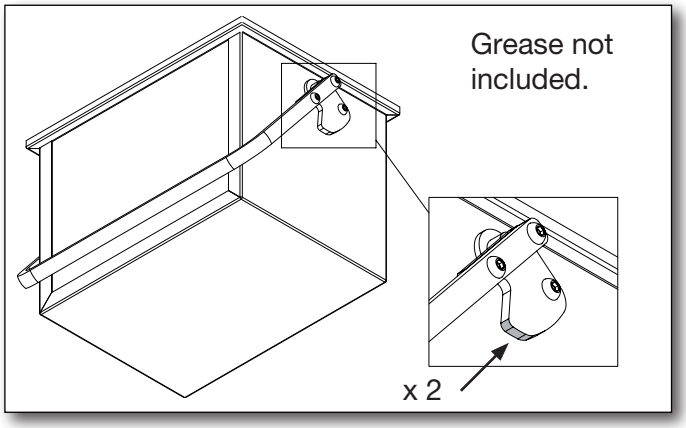






Replace in reverse order. Starting with Fig. 4.

Lubricate Ash pan



1.16 Diagram for the maintenance

	Stove Owner					Qualified Technicia	
Maintenance / Period	Before Autum	Daily	1 week	30 days	60-90 days	1st Year	2st Year
Cleaning the chimney (see. Chimney)	C						
Cleaning the chimney and stove	C				C		
Cleaning the stoves firebox	C	VI			C		
Cleaning combustion air intake	C				C		
Cleaning ash bucket	C		VI	C			
Cleaning of the firebox	C		VI	C			
Checking / switch, gasket for door	C/S	VI					C/S
Checking / changing, gasket for glass	C/S	VI					C/S
Checking / switch, gasket for ashpan	C/S	VI					C/S
Checking / changing gasket for flue pipe	C/S	VI					C/S
Checking / changing vermiculite	C/S	VI					C/S
Lubricate hinges	L	VI			L		
Lubricate lock	L	VI			L		
Lubricate Ash pan	L				L		

C = Cleaning
C/S = Checking /Switch
L = Lubricate
VI = Visual Inspection, pos. cleaning/replacing/adjusting

1.17 Stove data table in accordance with en 13240 testing

Stove type Scan-Line series	Nominal fluegas temperature C°	Smoke stub mm	Fuel volume kg	Draught min mbar	Nominal output tested kW	Heat output %	Distance to flammable materials		Distance to furnitures from the stove mm	Stove weight kg
							behind the stove mm	at the sides mm		
7B	243	ø150	1	0.12	4.5	83	100	100	800	*
7C	243	ø150	1	0.12	4.5	83	-	100	800	*
7D	243	ø150	1	0.12	4.5	83	100	100	800	*
7D low**	243	ø150	1	0.12	4.5	83	100	100	800	*
7L**	243	ø150	1	0.12	4.5	83	100	100	800	*

The nominal output is the output to which the stove has been tested.
The test was carried out with the secondary air 50% open.

7L DO NOT STAND ON A FLAMMABLE FLOOR WITHOUT A ROTARY BASE

* Stove weight SL 7 Serien

Scan-Line 7B Standard	97 kg
Scan-Line 7B Stone top	108 kg
Scan-Line 7B Complete stone	149 kg
Scan-Line 7C Standard	114 kg
Scan-Line 7C Stone top	126 kg
Scan-Line 7D Solid base Standard	103 kg
Scan-Line 7D Rotary base Standard	105 kg
Scan-Line 7D Solid base Stone top	115 kg
Scan-Line 7D Rotary base Stone top	117 kg
Scan-Line 7L Standard	104 kg
Scan-Line 7L Stone top	116 kg

Stove data table in accordance to Norwegian fire wall

Oventype Stove Scan-Line serien	Distance to fire wall i mm	
	behind the stove	at the sides
7 B/C/D/L	50	50

** SL 7L and 7D low: Must be place on a log store when installed on a floor made of combustible materials.

** SL 7L and 7D low: Can be place on a hearth without log store, when the hearth and substrate is non-combustible.

1.18 Troubleshooting table - applies to all stove types

Fault	Cause	Troubleshooting	Solution
Lighting problems. When the stove is cold, smoke seeps into the room. Once the combustion chamber has heated up, the stove burns well.	Inadequate chimney draft. The chimney only has sufficient draft when it is hot.	You can test using a lighter whether flame is drawn into the combustion chamber.	Improve the chimney.
The stove burns poorly after the warm-up phase, and the glass slowly soots up.	Soot in the flue pipe.	Check the flue pipe regularly, as the problem arises slowly.	Clean regularly, and limit the use of horizontal flue pipes. Do not use firewood which generates large quantities of ash.
If the stove burns poorly after start-up, and the glass slowly soots up.	Inadequate chimney draft.	The fault usually already occurs during lighting. Measure the chimney draft.	Improve the chimney draft.
	Insufficient air supply.	Check the air supply.	Read the operating instructions and instruct all users.
	Damp wood.	Use clean, dry wood with a maximum moisture content of 20%.	Firewood should ideally be dried for at least one year after splitting.
	Firewood pieces too large.	Optimal size – see the section for firewood, max. diameter 10 cm.	Use smaller pieces of firewood.
	Insufficient air supply to the room. Range hoods, airtight windows, etc.	Ensure there is sufficient fresh air supply, open a window, check the outdoor air supply.	Depending on the cause, windows must be opened or the outdoor air connection cleaned.
	Insufficient air supply to the room. Range hoods, airtight windows, etc	Ensure there is sufficient fresh air supply, open a window, check the outdoor air supply.	Depending on the cause, windows must be opened or the outdoor air connection cleaned.
The vermiculite in the combustion chamber is becoming very worn.	Wood and flue gases wear down the vermiculite.	Investigate whether the wear is normal.	Normal wear and minor cracks are of no significance. It should be replaced when the steel of the combustion chamber is visible.
Too rapid combustion.	Too much chimney draft.	To test, you can open the cleaning hatch, but remember to close it again.	Measure the chimney draft and install a damper in the flue pipe if necessary.
	The door or ash pan/drawer seal is defective.	While cold, close a piece of paper in the door – the seal should hold the paper gently in place so it does not fall out by itself. Normal wear.	Replace the seal.
The vermiculite in the combustion chamber is cracked.	Shocks or impacts while adding firewood.	Normal wear	Cracks only have cosmetic significance. Replace when the steel of the combustion chamber is visible.
Steel surfaces in the combustion chamber have oxidised.	The temperature in the combustion chamber is too high.	Unsuitable fuel is being used (such as coal). Check the quantity of firewood being used, read the operating instructions.	If there are clear cracks or weaknesses in the stove body, it must be replaced.
The stove whistles	Too much chimney draft	To test, you can open the cleaning hatch, but remember to close it again.	Install a damper.
The stove 'clunks'	Usually due to tension in the metal plates.	Generally only occurs while heating up and cooling down.	Adjust the metal plates.
The stove ticks	Normal expansion and contraction due to temperature changes.	A normal sound.	Ensure that the temperature in the combustion chamber is as constant as possible.
The stove creaks.	The temperature in the combustion chamber is too high.	Use less firewood. Also check the seal in the ash pan/drawer.	See the operating instructions.
The stove smells. The surface is steaming.	The paint on the stove surface is not yet fully hardened.	See the operating instructions regarding the first firing.	Ensure there is sufficient ventilation.
Condensation in the combustionchamber.	Moisture in the vermiculite.	Check the condition of the vermiculite.	Evaporates by itself after the stove has been lit a few times.
	Damp wood.	Measure the moisture content.	Use dry firewood.
Condensation from the flue pipe.	The pipe is too long or the chimney is too cold.	Check the flue pipe's length and heat loss.	Improve the flue pipe, insulate the chimney.
	Damp wood	Measure the moisture content.	Use dry firewood.
Moving parts creak.	Needs lubercation.	What part.	Lubercate with graphite spray.

1.19 Guarantee

Heta wood stoves, are subjected to a strict quality control during production and before delivery to the dealer. Therefore, the duration of the warranty is **5 years** on this product, covering manufacturer's defects, **1 year** on paint adhesion defects from purchase date from Heta and a 3 months total warranty for seals, vermiculite and glass from the date of sale from the dealer.

Claims concerning stoves older than **3 months**, will be assessed by our quality team on a one-by-one basis. Report all claims to your dealer or local Heta representative, who in turn will contact Heta to solve the claim. To file a claim please provide date of installation, picture of the silver data sticker, model and a description of the issue and pictures.

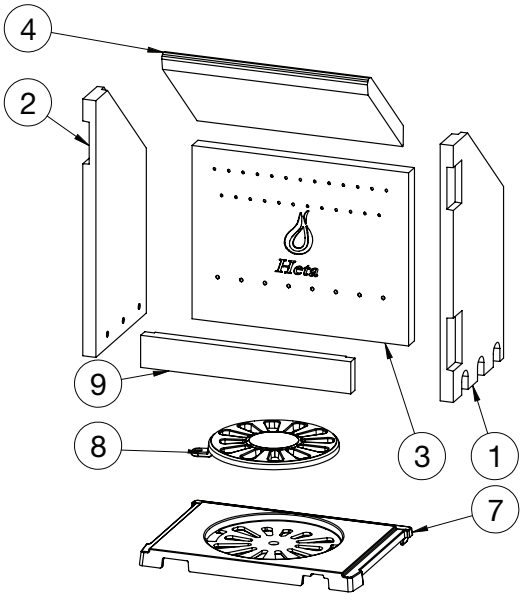
The guarantee does not cover:

- Wearing parts / fragile parts such as:
- Vermiculite elements in the combustion chamber.
- Glass
- Seals
- The cast bottom or shaking grate
- Surface or paint deteriorations due to excessive humidity, salinity or other aggressive environment
- Damage caused by improper use
- Transportation costs for warranty repair
- Assembly / disassembly of warranty repair
- Any secondary damages of the stove or it's environments due to negligence of any initial damages whether this damage is covered or not by the manufacturers guarantee.

Warning

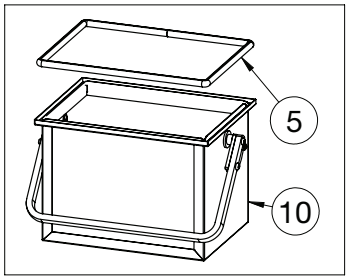
Inadequate installation, unauthorized alteration to the stove or the use of non-original parts will void the guarantee.

1.20 Parts - Inside fire chamber

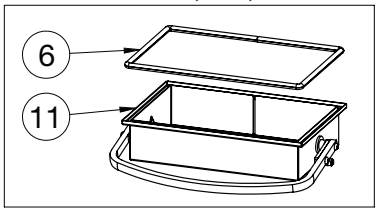


Pos.	No.	Name	Qty.
1	0023-0094	Side stone, right	1
2	0023-0095	Side stone, left	1
3	0023-0096	Back stone	1
4	0023-0097	Baffle	1
5	0023-3017	Gasket L= 0,91 m	1
6	0023-3017	Gasket L= 0,90 m	1
7	0030-0017	Casted bottom	1
8	0030-0201	Grate ø195 mm	1
9	0023-0264	Front stone	1
10	4018-0030	Ash container Scan-Line 7B	1
11	4018-0037	Ash container, low Scan-Line 7C, 7D, 7L	1

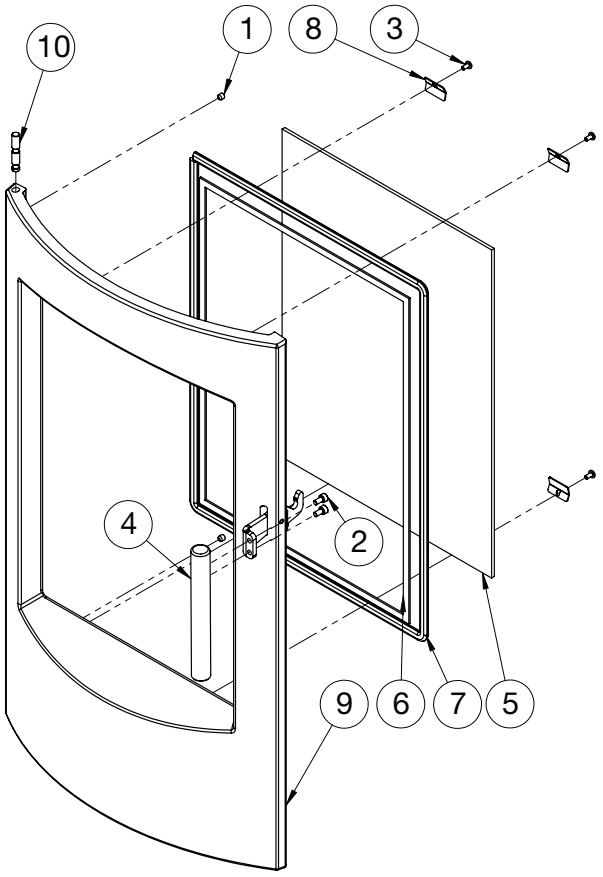
Scan-Line 7B



Scan-Line 7C, 7D, 7L

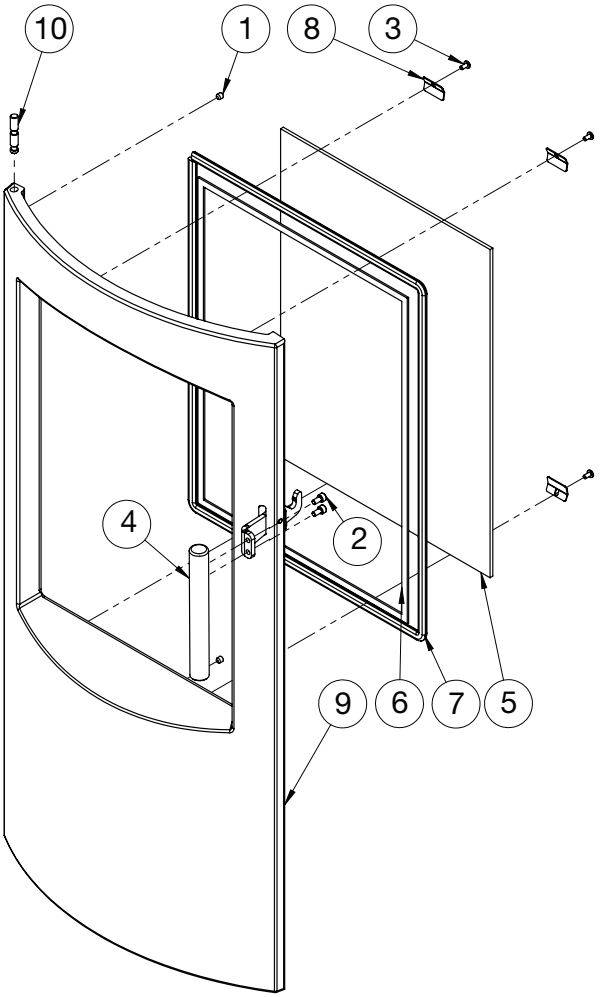


Parts - Stove door Scan-Line 7C, 7D, 7L



Pos.	No.	Name	Qty.
1	0008-1002	M6x6 Pinole screw	2
2	0008-2005	M5x10 screw	2
3	0008-2306	M4x8 screw	4
4	0016-0031	Handle	1
5	0021-0036	Glass	1
6	0023-3013	Glass tape 3x8 L=1,45 m	1
7	0023-3015	Glass gasket ø10 L=1,6 m	1
8	1013-0529	Glass clips	4
9	4005-0032	Stove door	1
10	0016-0016	Hinge pin	1

Parts - Stove door Scan-Line 7B



Pos.	No.	Name	Qty.
1	0008-1002	M6x6 Pinole screw	2
2	0008-2005	M5x10 screw	2
3	0008-2306	M4x8 screw	4
4	0016-0031	Handle	1
5	0021-0036	Glass	1
7	0023-3013	Glass tape 3x8 L=1,45 m	1
6	0023-3015	Glass gasket ø10 L=1,6 m	1
8	1013-0529	Glass clips	4
9	4005-0032	Stove door	1
10	0016-0016	Hinge pin	1

Installation Instructions Contents

Remember

The stove and chimney installation, must comply with local regulations, including those referring to national and European standards.

2. Installation instructions

The stove installation must be in accordance with national, European and possibly local regulations. You must follow local regulations with regard to installation of chimney and connection to the chimney. We recommend that you let a professional Heta dealer install the stove. Alternatively, you can ask the local chimney sweep before installation. Be aware that it is always the owner himself who has responsibility for ensuring that applicable rules are complied with.

A modern stove places heavy demands on the chimney due to the high efficiency. It may be necessary to enhance or even replace an old chimney.

Remember

1. Always ensure free access to any cleaning doors in a chimney.
2. Always ensure ample fresh air to the room.
3. Exhaust/extraction fans in the house can reduce or create negative draft in the chimney. Reduced draft can lead to the stove having adverse combustion properties. It may result in smoke coming out of the stove when the door is open. A negative draft due to an exhaust/extraction fan can cause the chimney to work in reverse, drawing smoke into the house because of the fan.
4. Any air vents must not be covered.

2.1 Distance Provisions

There is a difference between installation next to flammable wall or non-flammable wall. If the wall is made of non-flammable material, the stove in principle may be placed flush against it.

We recommend a minimum of 5 cm to facilitate air circulation around the stove.

The minimum distance to combustibles can be found on the model plate provided with the stove or on page 11 of this manual.

2.2 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 stove, 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 11.

2.3 The chimney connection

The chimney opening must follow national and local regulations. However, the area of the opening should never be less than 175 cm^2, 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 cm^2 of free passage, even when the damper is in its “closed” position.

If local regulations permit, two contained stoves can be connected to the same chimney. However, you must abide by local regulations regarding the distance between the two connections.

The stove must never be connected to a chimney that is linked to a gas fire stove.

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. Heta A/S stresses that it is of utmost importance that this is done correctly with very tight joints. As mentioned earlier, we recommend that setup and installation be left to a professional Heta dealer.

Connection to a steel chimney

When fitting a connection from a top outlet 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).

2.4 Combustion air and Ventilation

The stove is approved as a room air dependent stove in accordance with EN 13240. All the combustion air in the inset stove comes from the room in which it is fitted. However, by connecting a sealed air inlet to the stove's air intake connector, the stove can be supplied with external combustion air. In this respect, the following requirements must be met:

- Only approved materials may be used from the ventilation unit to the air inlet vent.
- The air inlet vent must be fitted correctly and insulated to prevent formation of condensate. The cross section of the vent and grille must be at least 78 cm^2.
- If the vent leads out into the open air, please note that the grille must be fitted with suitable wind protection. There must be no risk that the grille can get clogged by leaves, etc.
- The stove has been tested with 3 m of 100 mm pipe, with 3 90 degree bends.

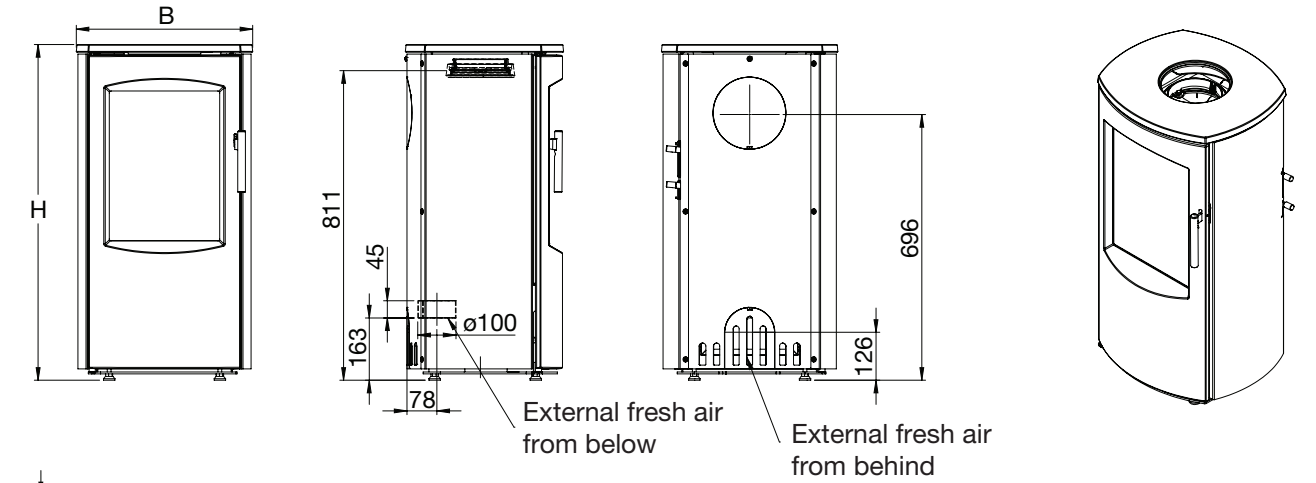
Ventilation

Adequate ventilation must be provided in accordance with building regulations (Doc J Oct 2010) especially when installing in newer build properties when the stove is not going to be installed to an outside air supply. Houses built after 2008 where the air leakage rate is less than 5m^3/ hour/m^2 then a ventilator equivalent to 550 mm^2 per kW output will be required (4.5 kW x 550 mm = 2475 mm^2) unless the stove is connected to an outside fresh air supply.

2.5 Stovedrawings/measurments

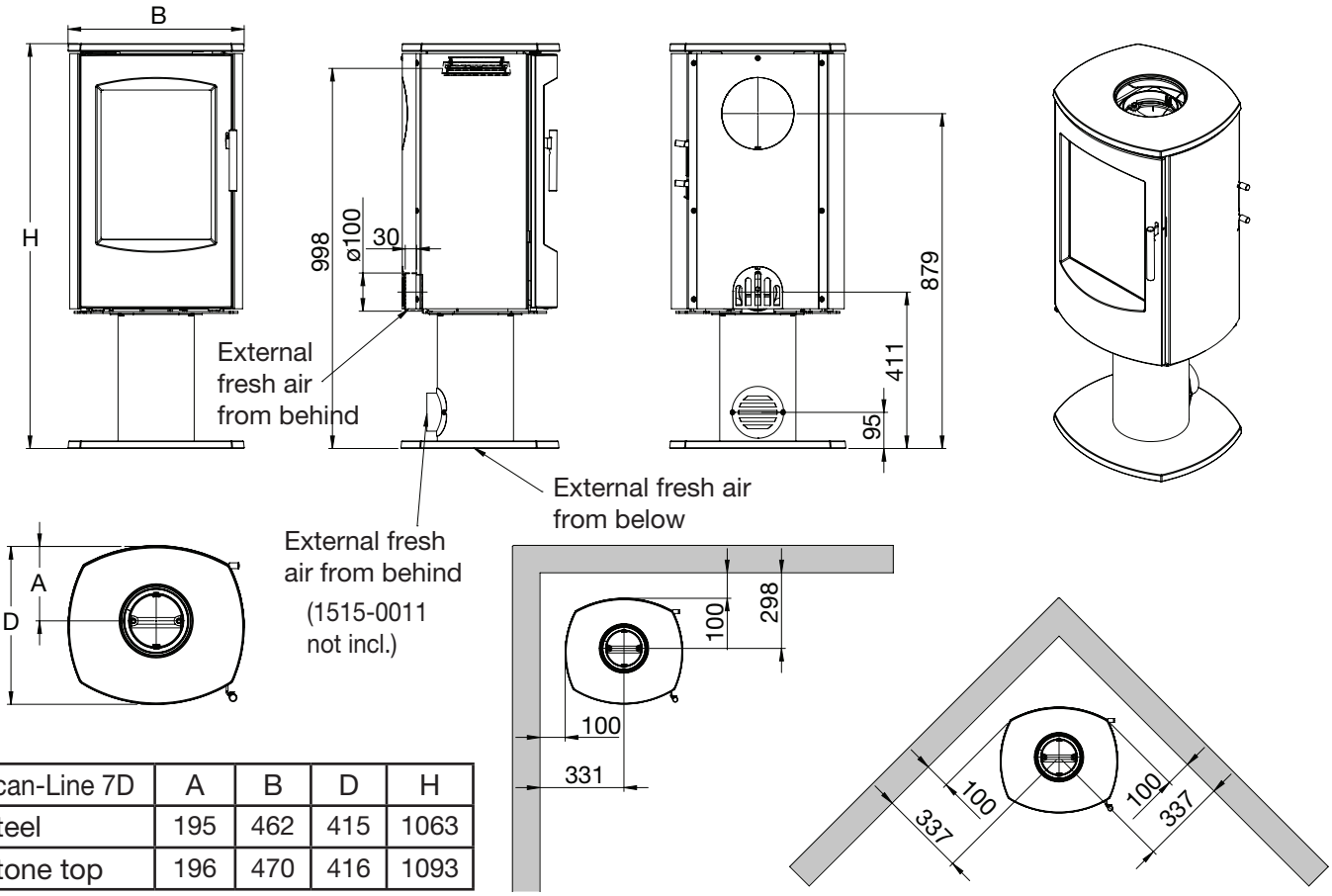
Scan-Line 7B

The dimensions are the minimum dimensions, unless otherwise stated.



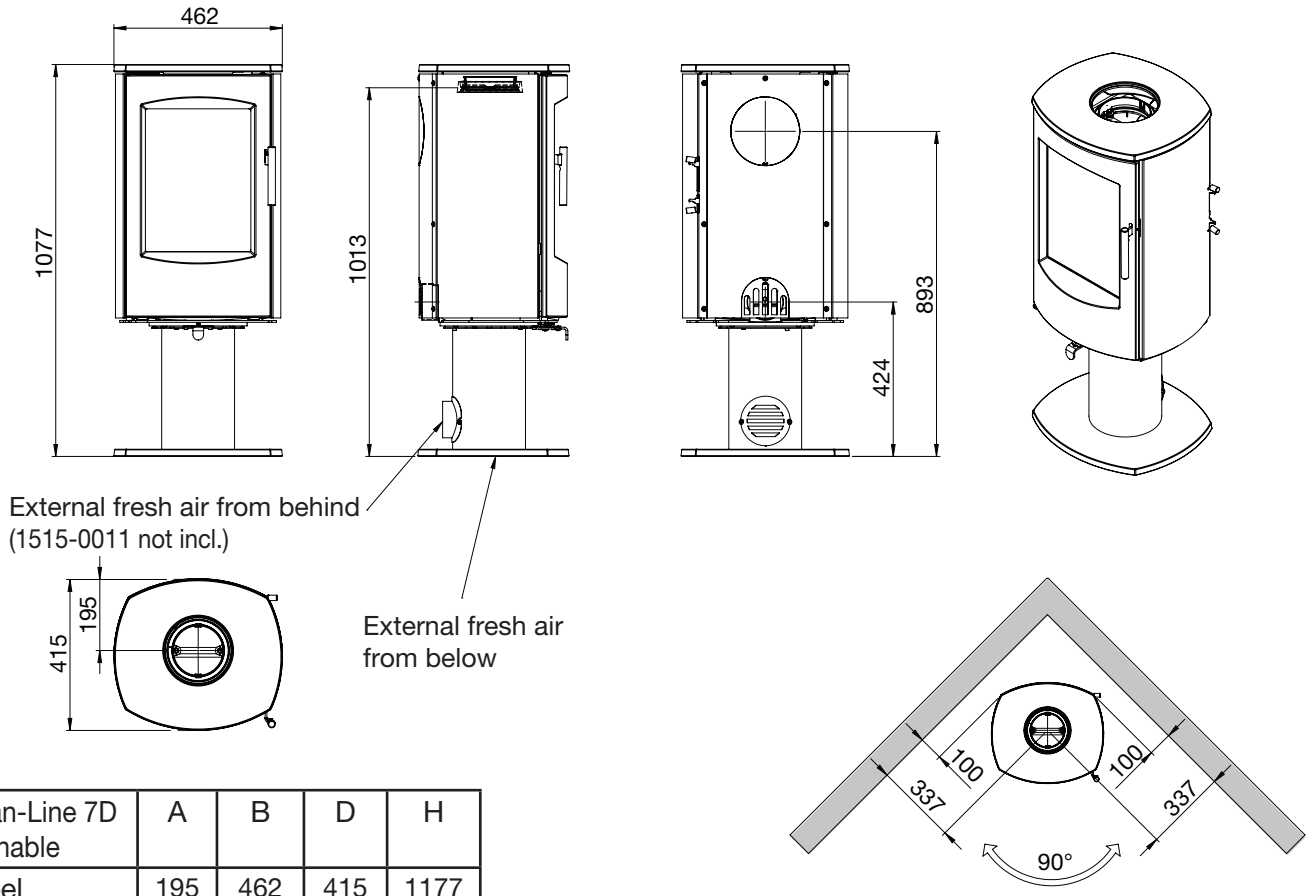
Scan-Line 7B	A	B	D	H
Steel	195	462	415	880
Stone top	196	470	416	909
Stone	196	470	416	910

Scan-Line 7D



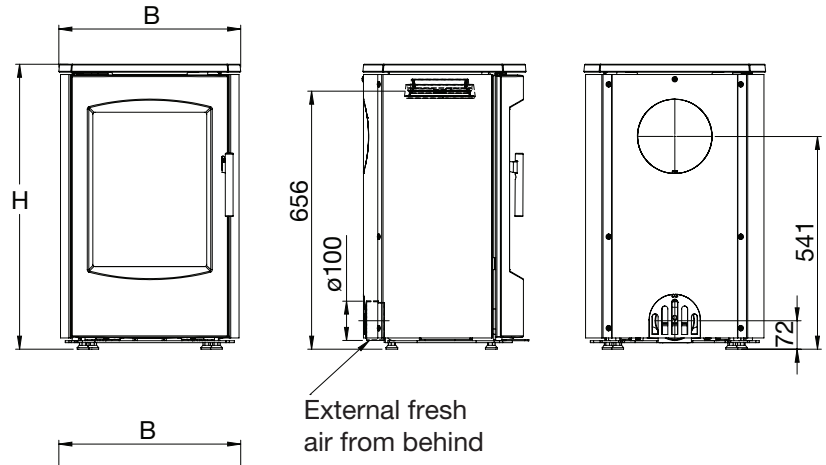
Scan-Line 7D	A	B	D	H
Steel	195	462	415	1063
Stone top	196	470	416	1093

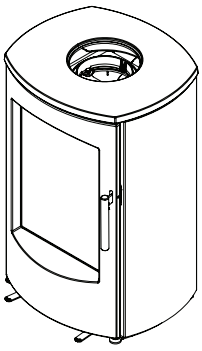
Scan-Line 7D Turnable



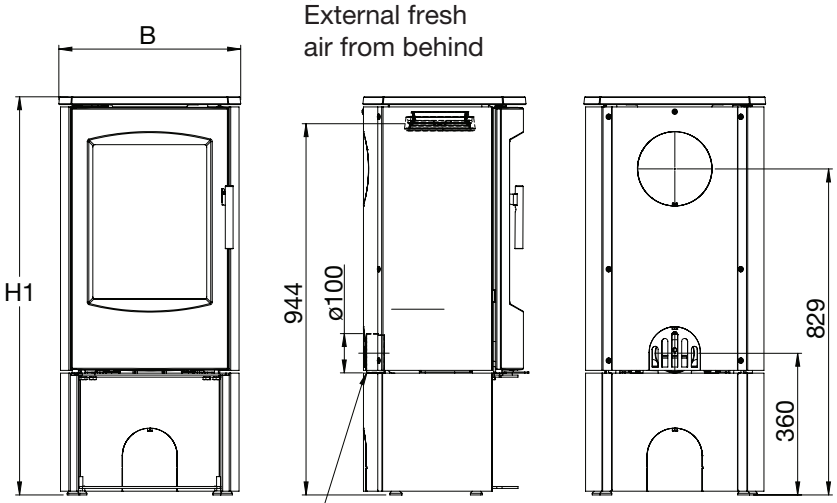
Scan-Line 7D Turnable	A	B	D	H
Steel	195	462	415	1177
Stone top	196	470	416	1106

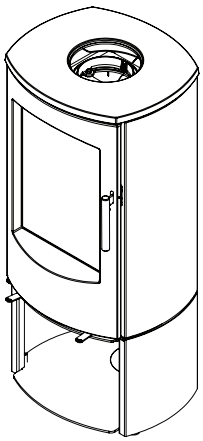
Scan-Line 7L

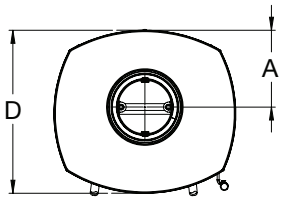


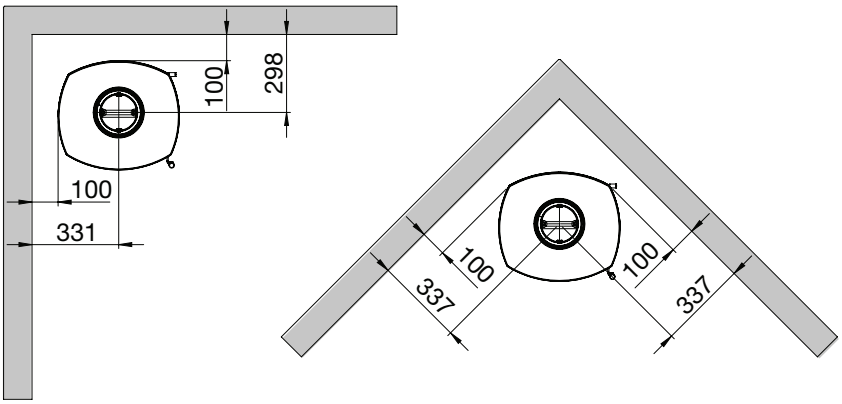


Do not stand on a flammable floor without a rotary base





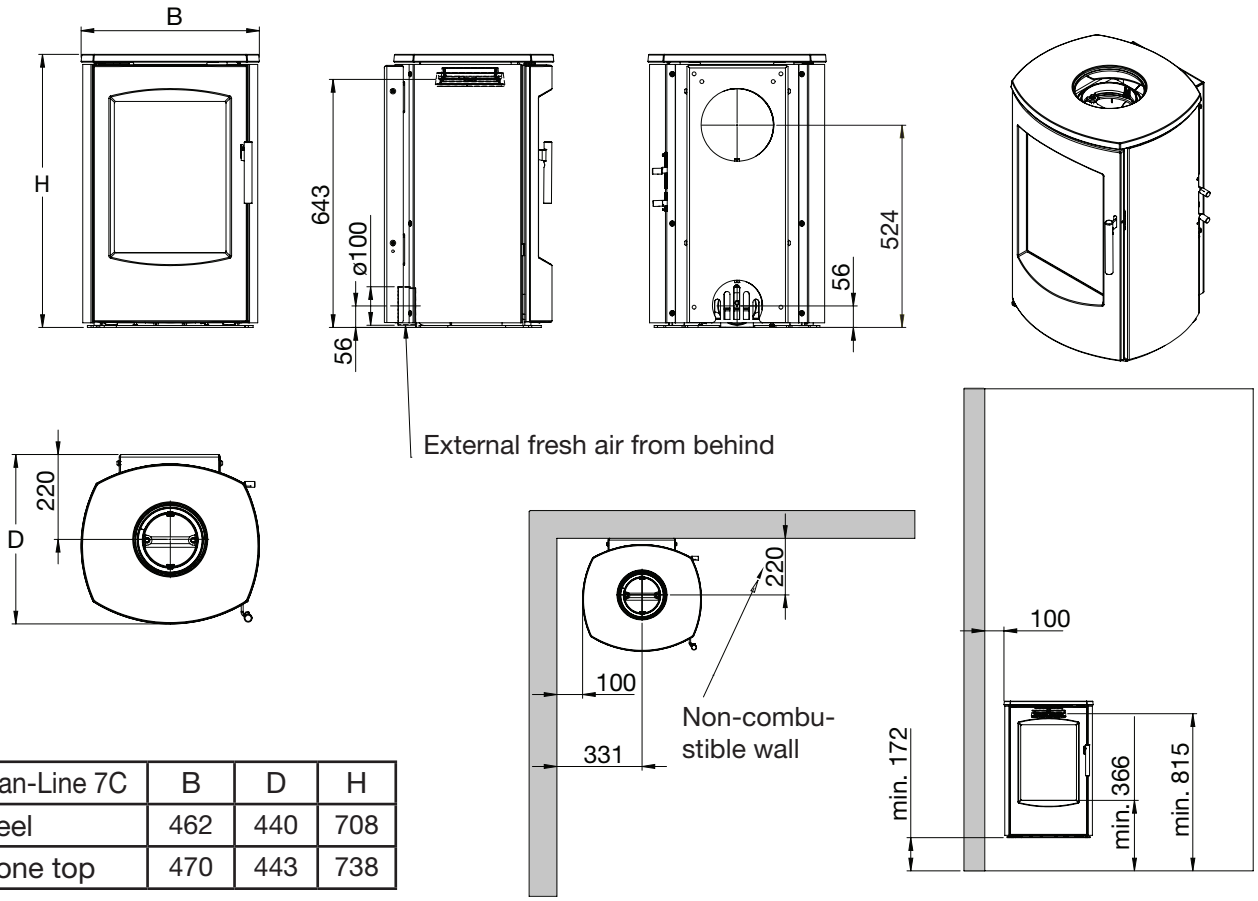




Scan-Line 7L	A	B	D	H/H1
Steel	195	462	415	725/1013
Stone top	196	470	416	754/1042

The dimensions are the minimum dimensions, unless otherwise stated.

Scan-Line 7C

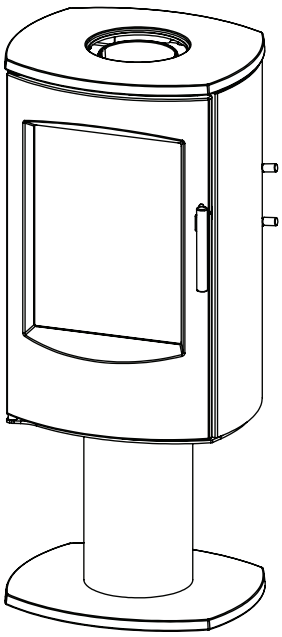


Scan-Line 7C	B	D	H
Steel	462	440	708
Stone top	470	443	738

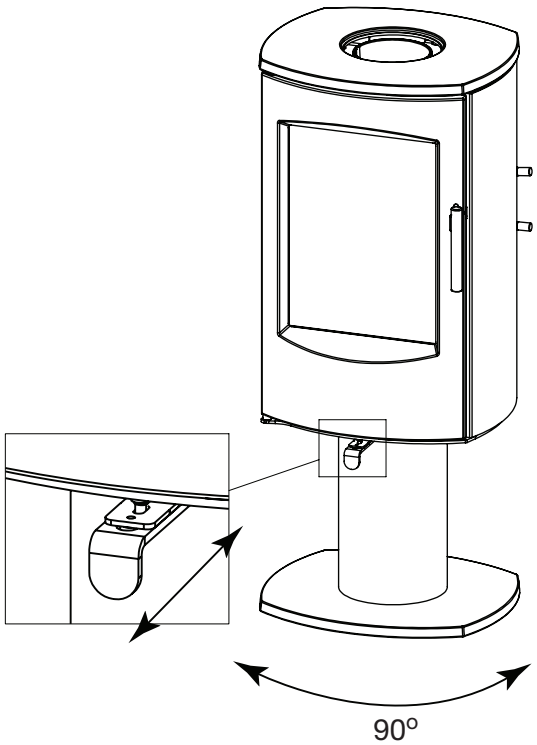
Scan-Line 7D

Scan-Line 7D is available on solid base and on rotary base.
To operate the rotary base, turn the small handle in front of the stove.

Scan-Line 7D is available on solid base



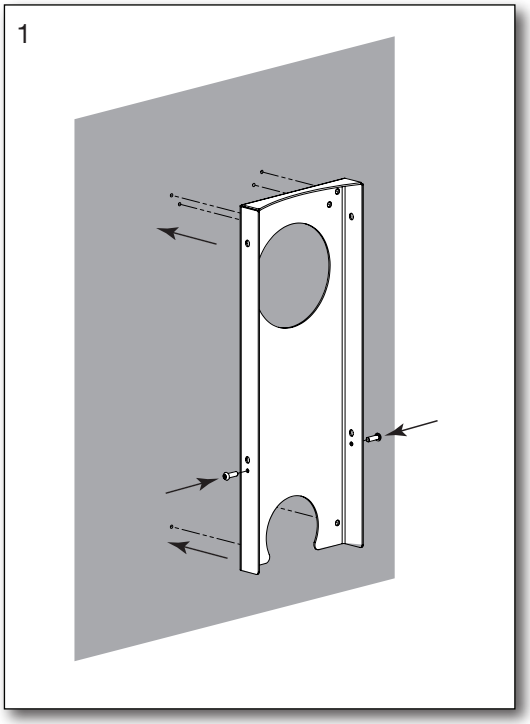
Scan-Line 7 D on rotary base.
(Rotates 45 degrees til each side)

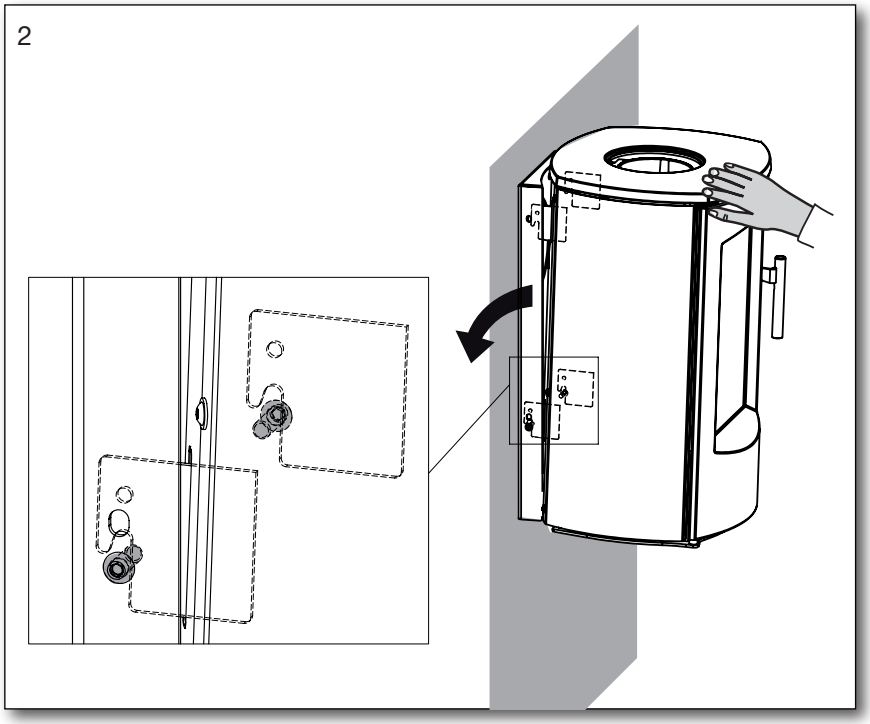


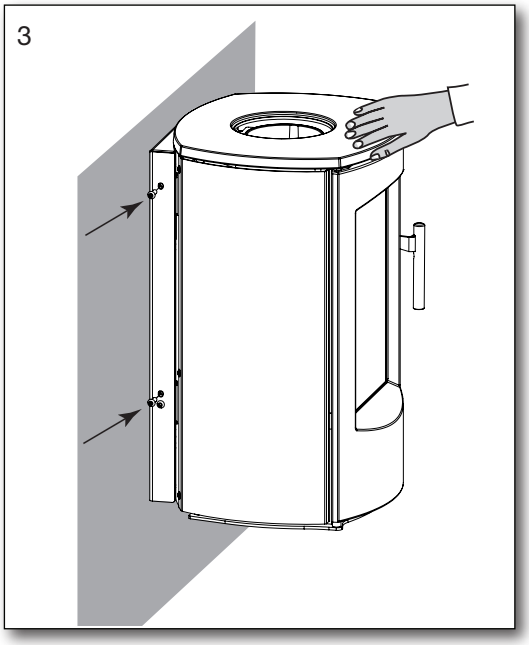
2.6 Wall-mounting the stove Scan-Line 7C

Attach the wall fitting (can be used as a drilling template) to a **non-combustible wall** with four bolts dimensioned to bear the weight of the stove (weight: see table page 11). Do not use plastic rawlplugs (due to heat from the stove).
If smoke is to escape from rear flue outlet at the back of the stove, fit the wall bushing before hanging the stove on the wall. To switch from top flue outlet to rear flue outlet, see page 24.

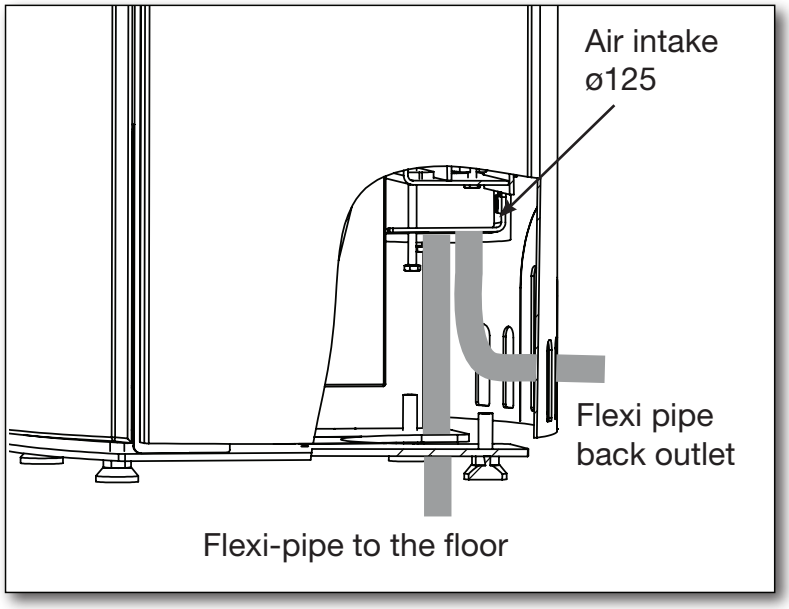
There are four wall brackets on the back of the stove. The lower wall brackets on the stove just rest on the lower side screws of the wall fitting. See figure 2. When the stove is resting on the lowest screws, tip the stove to meet the wall fitting and secure with the screws and shims supplied. Never store solid fuel or combustible material under the stove.







2.7 Connecting direct air below or behind Scan-Line 7B



When installing external air supply, connect the air intake to the direct air pipe using flexi-pipe, both from the floor or behind the stove.

Flexi-pipe not included.

Direct air supply

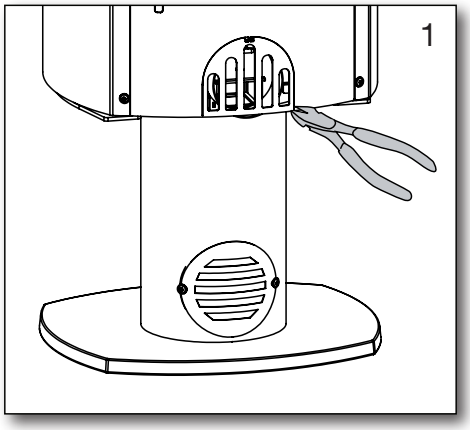
The dimensions of the direct air supply pipe, may not be less than ø100 mm, the draught in the flue depends on this air for optimal combustion.
Heta recommends max. 4 meters of direct air pipe, with max. 3, 90° bends and a min. of ø100 mm.

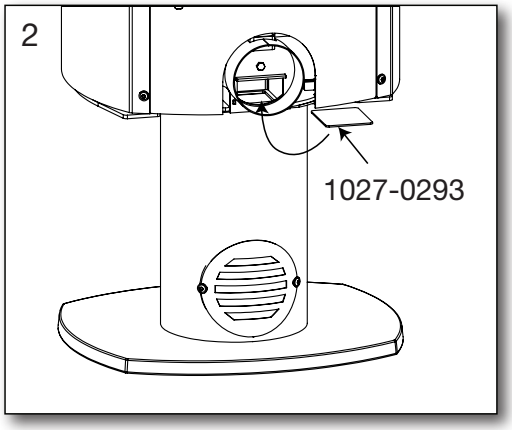
2.8 Optional connection of external air flow - Scan-Line 7D

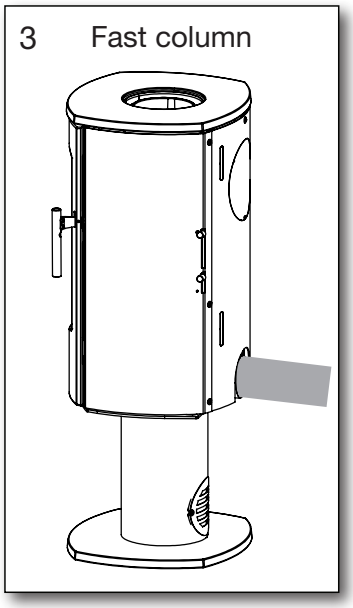
Rear connection

Insert cover plate 66x83 mm 1027-0293 (supplied) through the duct and loosely down into the bottom so that it covers the hole from below.

You can now connect the ø100 connector on the stove to external air flow hose. Fig.3.



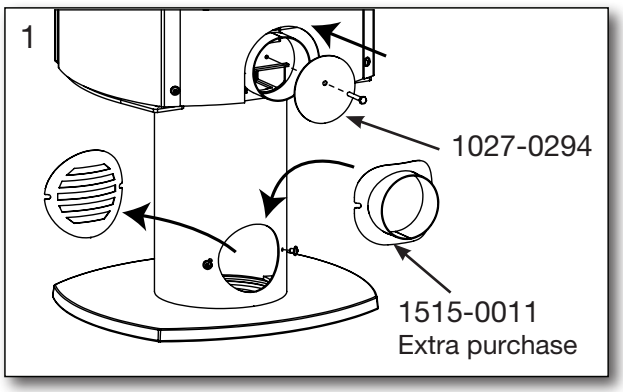


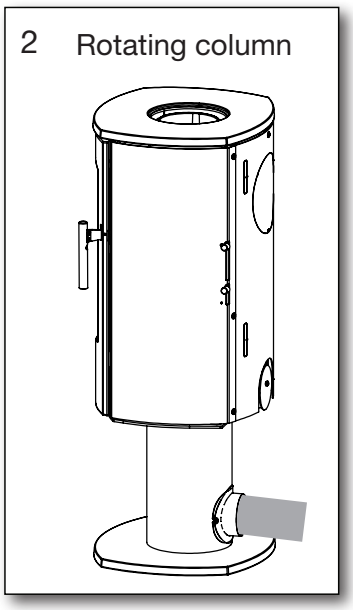


Rear connection through column

Loosen screw in ø100 connector and attach cover plate ø105 mm 1027-0294 (supplied).

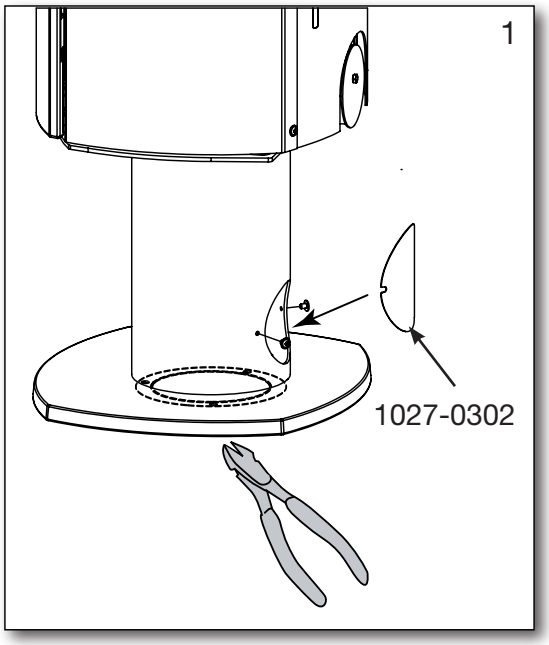
Remove the plate on the column and seal the hole with silicone before pressing the connector into place. Fig 1.

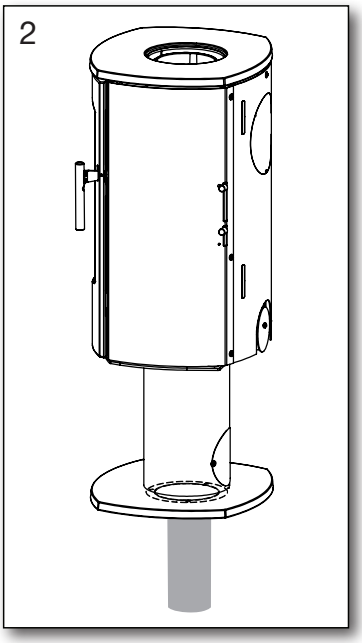




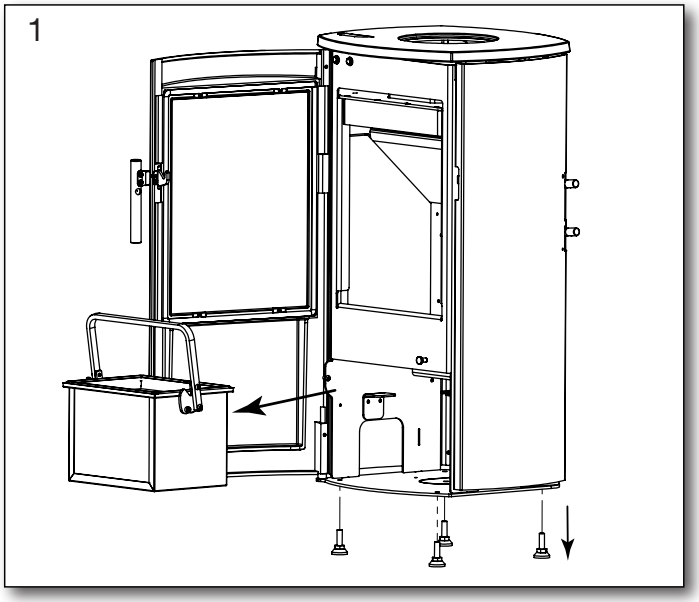
Connection through column from below

Loosen screw in ø100 connector and attach cover ø105 mm 1027-0302 (supplied) You can now connect external air flow up through the column. Fig. 2.



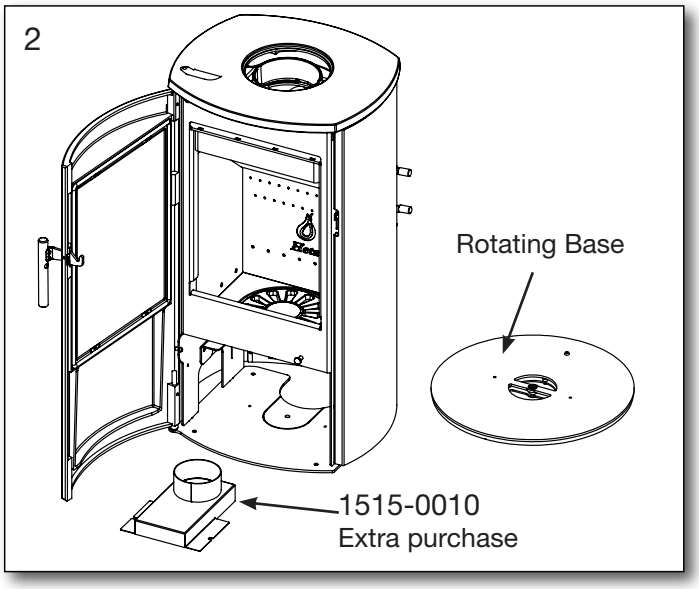


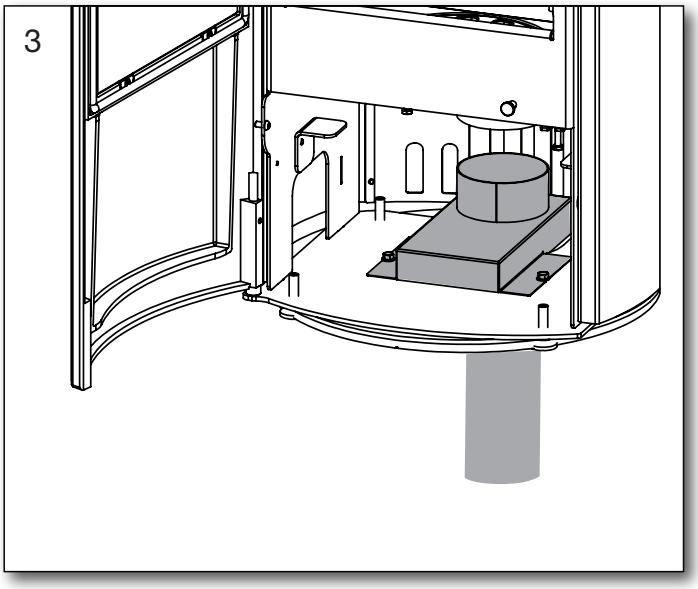
2.9 Scan-Line 7B
Connection of external air flow (fresh air) via rotating floor base



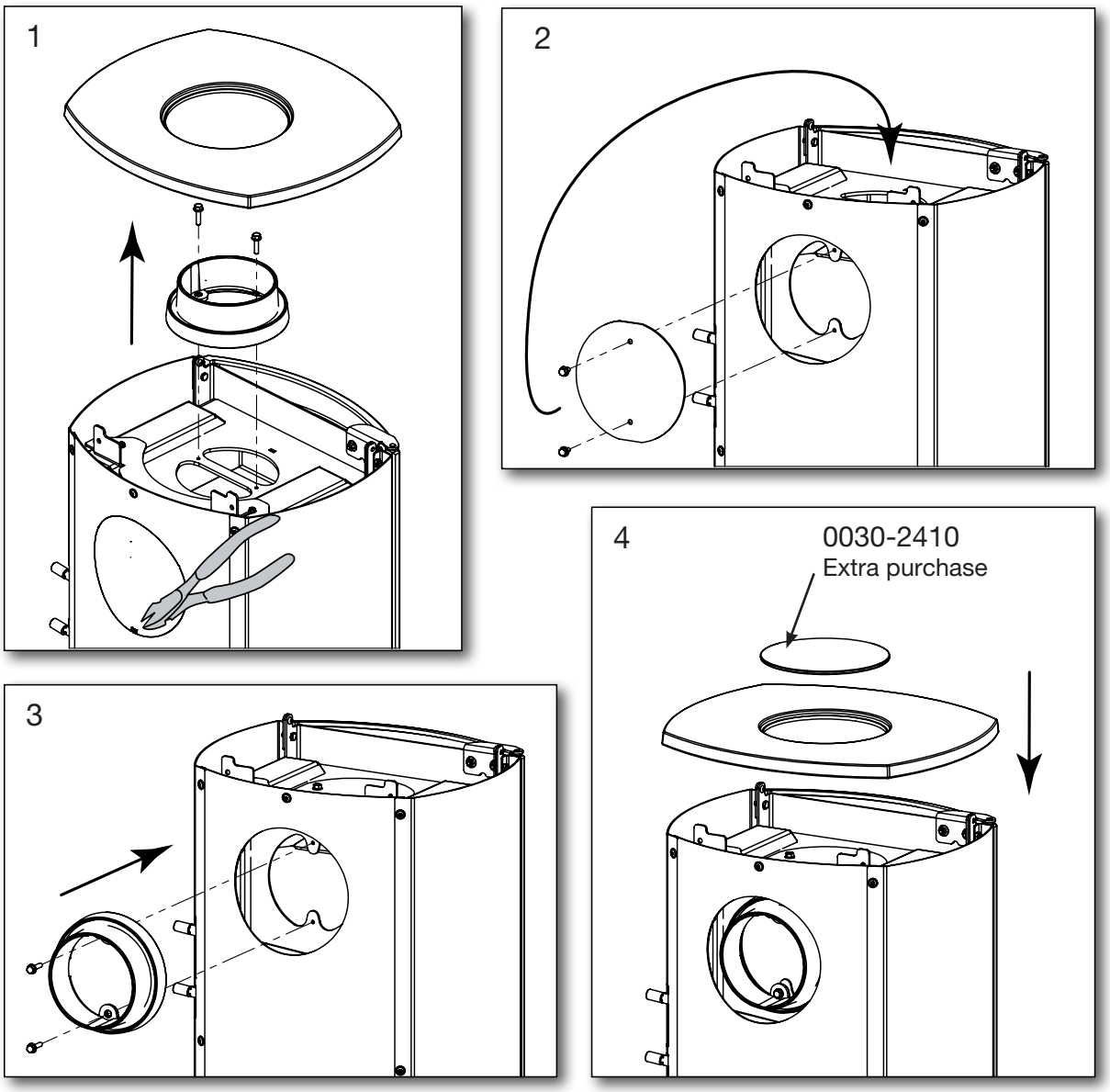
Remove the ashtray from the stove.
Tap or screw to remove and detach the four adjusting screws in the base plate.
To mount the rotating base, follow instructions in ”Scan-Line Rotating Base Instructions for Use”, without tightening the central screw.
Place the lose connection and tighten both screws right through to the 2 screw holes in the rotating floor base.
Mount a suitable length of flexible ducting between the ø100 connector on the stove and the loose connector.

We recommend ø100 Aluflex ducting, which can withstand temperatures up to 200°.





2.10 Changing to back smoke outlet



3 Appendix A

The Clean Air Act 1993 and Smoke Control Areas

Under the Clean Air Act local authorities may declare the whole or part of the district of the authority to be a smoke control area. It is an offence to emit smoke from a chimney of a building, from a furnace or from any fixed boiler if located in a designated smoke control area. It is also an offence to acquire an" unauthorized fuel" for use within a smoke control area unless it is used in an" exempt" appliance (" exempted" from the controls which generally apply in the smoke control area).

In England appliances are exempted by publication on a list by the Secretary of State in accordance with changes made to sections 20 and 21 of the Clean Air Act 1993 by section 15 of the Deregulation Act 2015. Similarly, in Scotland appliances are exempted by publication on a list by Scottish Ministers under section 50 of the Regulatory Reform (Scotland) Act 2014. In Wales and Northern Ireland these are authorized by regulations made by Welsh Ministers and by the Department of the Environment respectively.

Further information on the requirements of the Clean Air Act can be found here: https://www.gov.uk/smoke-control-area-rules Your local authority is responsible for implementing the Clean Air Act 1993 including designation and supervision of smoke control areas and you can contact them for details of Clean Air Act requirements

The Scan-Line 7 series have all been recommended as suitable for use in smoke control areas when burning dry wood logs.

HETA

Ecodesign
EU Declaration of Conformity

DoC Scan-Line 7 2534-2020

Product fiche

CE

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	Scan-Line 7B, 7C, 7D, 7L serie

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 13240:2001/A2:2004
CEN/TS 15883:2010

Notified body relevant to the assessment and verification of constancy of performance
Danish Technological Institute, DK-8000 Aarhus No. 1235. Report no. 300-ELAB-2534-EN

Characteristics when operating with the preferred fuel only		
Heat output		
Item	**Symbol**	**Value/Unit**
Nominal heat output	P_{nom}	4,5 kW
Minimum heat output	P_{min}	
Useful efficiency (NCV as received)		
Useful efficiency at nominal heat output	$\eta_{th,\ nom}$	83%
Useful efficiency at minimum heat output	$\eta_{th,\ min}$	
Auxiliary electricity consumption		
At nominal heat output	el_{max}	- kW
At minimum heat output	el_{min}	- kW
In standby mode	el_{SB}	- kW

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

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 contro	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

Emissions at nominal heat output	η_s %	mg/Nm³ (13 % O_2)			
		PM	**OGC**	**CO**	**NO_x**
	≥ 65	≤ 40	≤ 120	≤ 1500	≤ 200
	73	15	90	1009	78

Technical documentation	
Indirect heating functionality:	No
Direct heat output:	4,5 kW
Energy Efficiency Index (EEI):	EEI 110
Fluegas temperature at nominal heat output	T 243°C
Energy efficiency class	A+

Safty	
Reaction to fire	A1
Test of fire safety in connection with the burning of wood	Approved
Distance to combustible materials Rear. Without insulation / with insulation Sides distance to combustible materials Furniture distance	Minimum distances in mm 100 100 800

Signed on behalf the manufacturer of **10.01.2023**

Heta A/S
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Martin Bach

The chimney sweep's signature Date_____

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Signature