

OPERATING AND INSTALLATION INSTRUCTIONS

SCAN-LINE 805 AQUA

Approved for use in smoke control areas when burning dry wood logs or authorised fuels



www.heta.dk



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.

Scan-Line 805 Aqua is approved according to EN 13240, 15 a B-VG, NS 3058/3059 og AEA (Defra). 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.

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BEFORE INSTALLATION

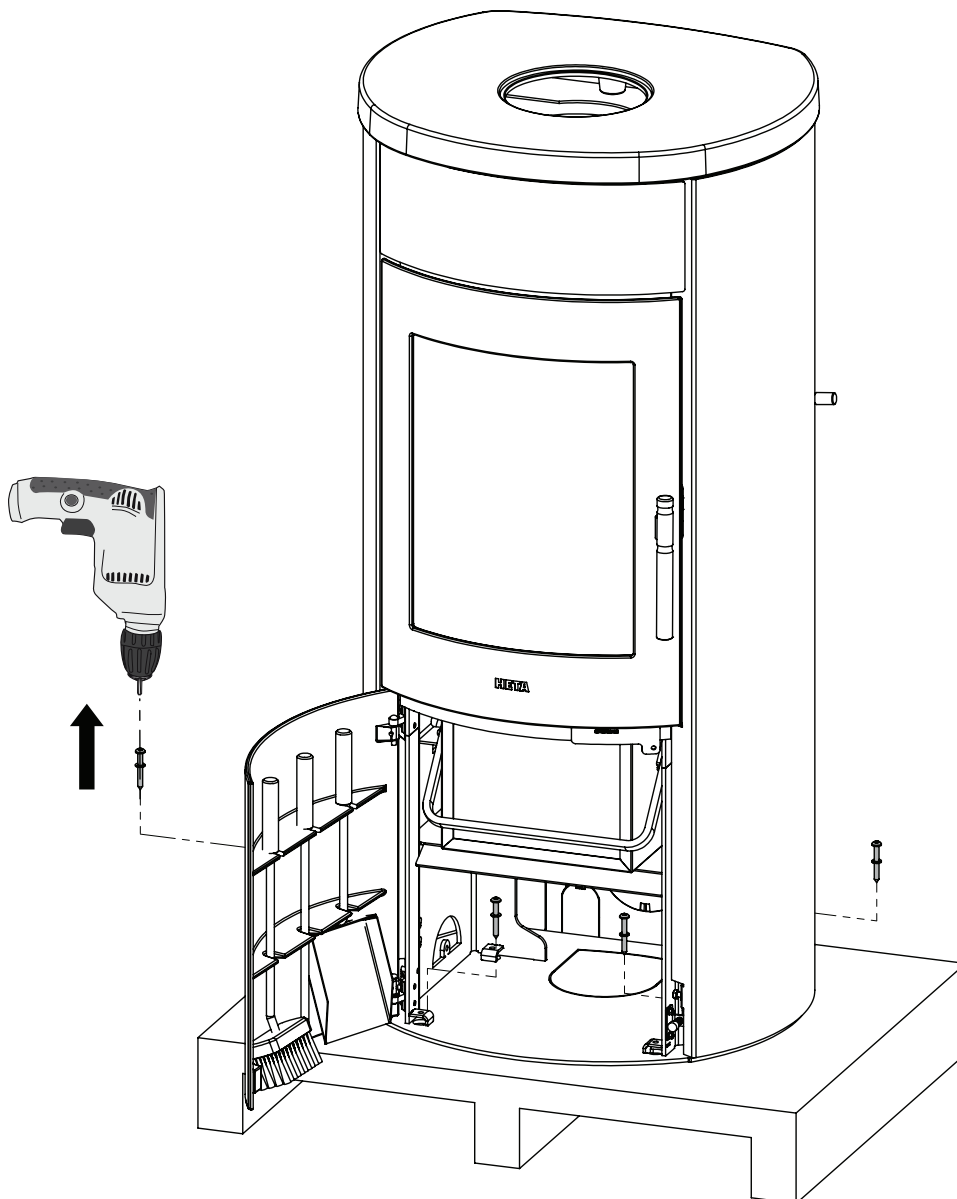
Heta wood stoves are quality products, therefore, your first impression is very important! We have a good logistics network, which transports Heta products with great care for our dealers. Nevertheless, when in transport or handling, damage of the often-heavy stoves can occur. It is important that upon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

The packaging must be disposed of as follows:


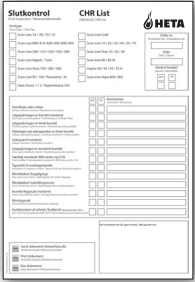


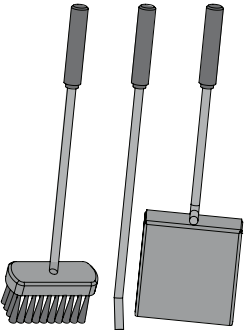
Wood is untreated and able to burn in the stove.

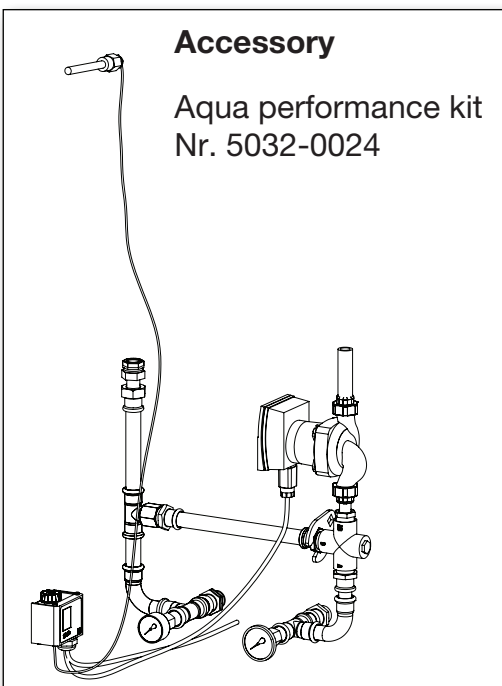
Plastic and cardboard you can drop off at your local recycling center.

Unpacking the stove



With your new wood stove you should find the following:

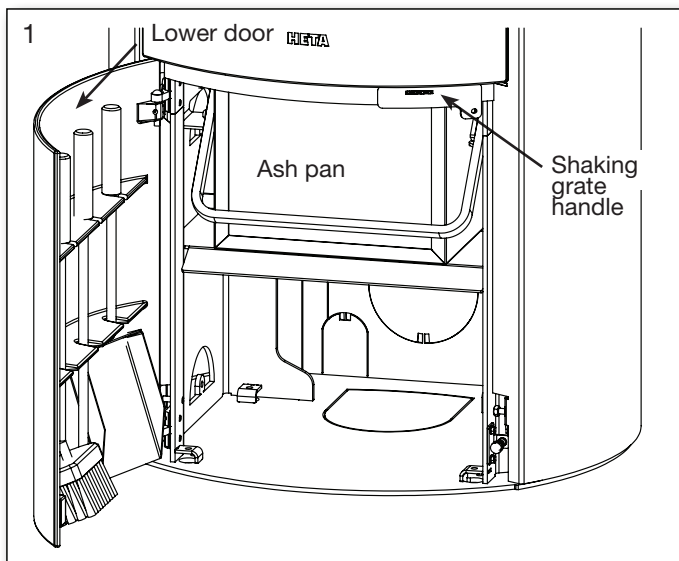
| | | | |
|---|--|---|---|
| <p>Operating / Instruction manual</p> |  | <p>Q.C. check</p> |  |
| <p>Heta glove Nr. 0023-9002</p> |  | <p>Data plate</p> |  |
| <p>Tool set</p> |  | <p>Required tools are not supplied.</p> | |



1. OPERATING INSTRUCTIONS

1.1 Before using

Before the wood stove is used make sure required installation conditions, are met. See page 17.



1.2 First firing

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

1.3 Airflow regulation

To adjust combustion airflow, use the handle on the side (towards the rear). There is maximum combustion airflow in when the handle is in the top position (fig. 2). Reduce combustion airflow gradually by lowering the handle. When the handle is in the lowest position (fig. 3), combustion airflow is completely closed.

Fig. 2



Fig. 3

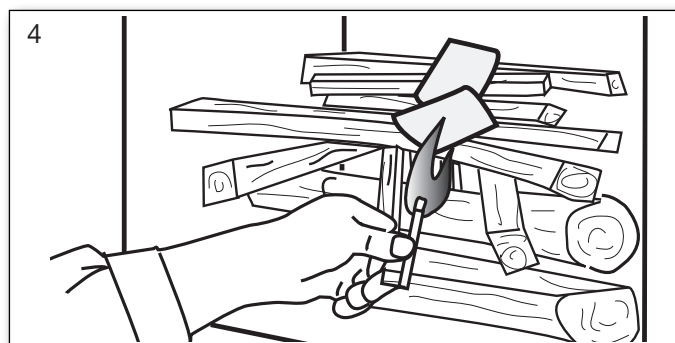


The SL805 Aqua stoves are designed and tested to burn extremely cleanly with very little smoke discharge and are exempt for use in smoke control areas throughout the UK when burning dry wood logs. To comply, a permanent stop is fitted to ensure that the air control slider cannot be closed beyond 52% of its fully open position. A permanent amount of air will therefore enter the firebox to feed the fire producing negligible

amounts of smoke and unburnt hydrocarbons. The appliances will only be considered as an exempt appliances if this stop is in place.

1.4 Lighting the stove

Place two pieces of wood on the bottom. Stack kindling on top in layers with air between. Set 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. 4.



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.



The stove is safety tested with a load of 2.3 kg of wood. The warranty will be voided if this amount is exceeded.



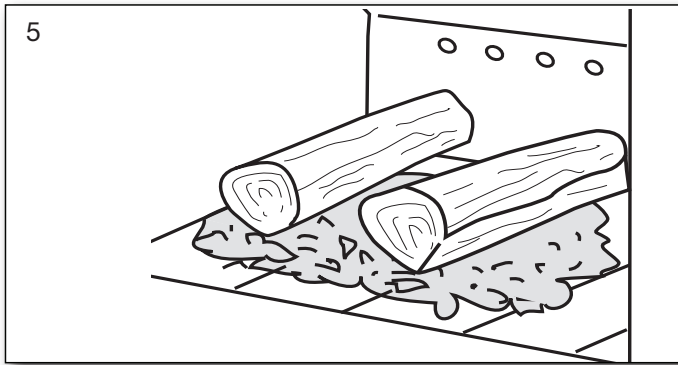
Startup/Lighting
Scan the code and select a language.

1.5 Refueling

Refueling of your stove should be done while there is still a good layer of embers. You should therefore air well when using the stove for the first time.

Spread the embers over the base grate, with most towards the front of the stove. Place firewood equivalent to 1.9 kg (on top of the em-

bers in one layer, perpendicular to the chamber opening. See fig. 5.



Now open the combustion air completely. If the stove and/or chimney cools down too much, it may be necessary to have the door ajar. 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 operation 8.7 kW corresponds to 70% combustion airflow.



The door must be closed during operation.

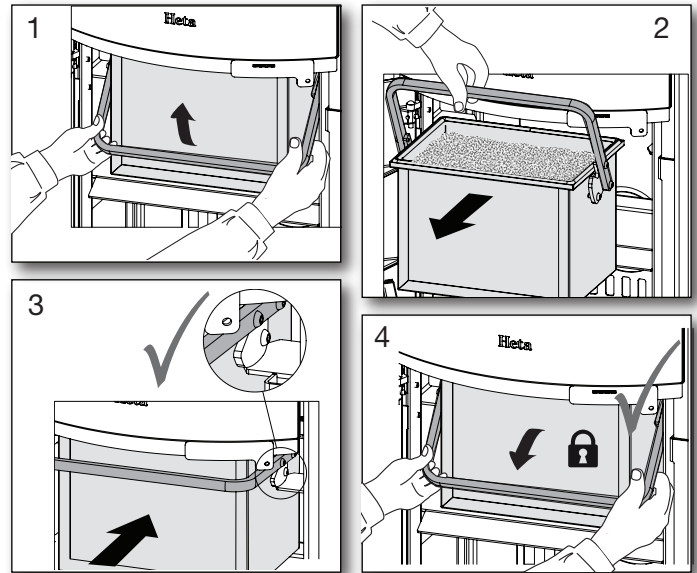
When adding fuel, make sure that the fuel is not too tightly packed, as this will lead to poorer combustion and fuel inefficiency.

Never fill firewood over the stove's max. fill line. See fig. 6.



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.



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 ashtray must be secure and must not be able to move after being set in place. Do not fire in the oven if the ashtray is not in place. The warranty is void if it is not complied with.

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 have burnt 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 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.

Warning!



One must always use caution 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 PA for Scan-Line 805 Aqua. 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.

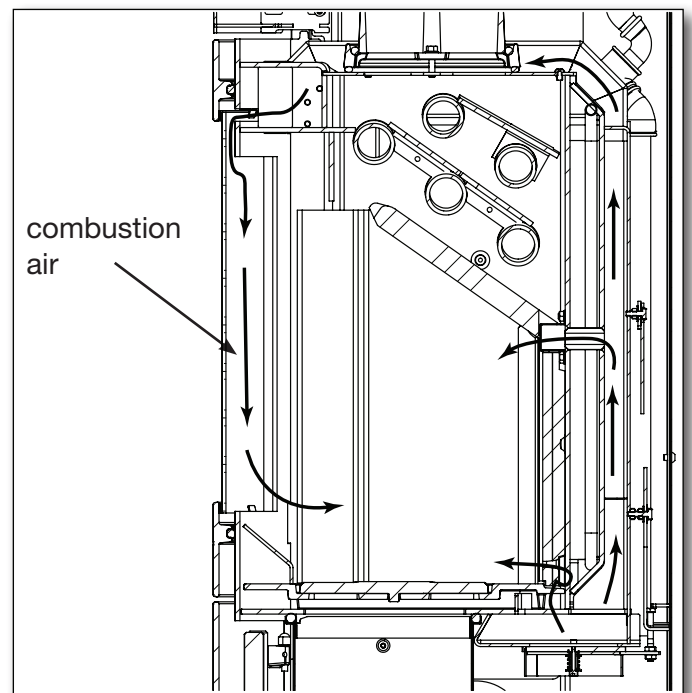
There is a risk of smoke escaping into the room if the door is opened during vigorous firing, or if there is a lack of air supply to the room, for ex. if an extraction fan is in use.

Nominal fluegas temperature: 182°C relative to 20°C.

Flue gas flow is: 6.3 g/sec. Corresponding to 22.7 m³ / hr of combustion air by burning 1.91 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 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.

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.

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

1.12 Chimney fire

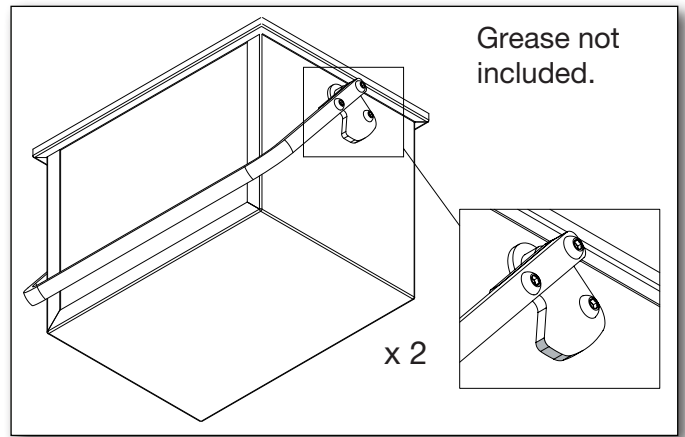
In case of a chimney fire, which often results from incorrect operation/maintenance or prolonged use of damp wood, close the door and the air

supply completely, to help slow/smother the fire. Call the fire department. The stove and chimney 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 can

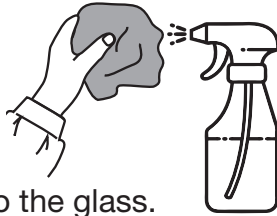
Lubricate Ash pan



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 Diagram for the maintenance

| Maintenance / Period | Stove Owner | | | | | Qualified Technicia | |
|--|--------------|-------|--------|---------|------------|---------------------|----------|
| | 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

L = Lubricate whit graphite spray

C/S = Checking / Switch

VI = Visual Inspection, pos. cleaning/replacing/adjusting

1.16 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 combustion chamber. | 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 lubrication. | What part. | Lubricate with graphite spray. |

1.17 Stove data table in accordance with EN 13240 testing

| Ovn type Scan-Line | Nominal fluegas temperature, at 20°C room temperature C° | Smoke stub mm | Fuel volume kg | Draught min mbar | Nominal output tested kW | Output to water kW | Output to the room kW | Output to water % | Output to the room % |
|--------------------|--|---------------|----------------|------------------|--------------------------|--------------------|-----------------------|-------------------|----------------------|
| 805 Aqua | 182 | ø150 | 1,9 | 0,12 | 8,7 | 5,6 | 3,1 | 64 | 23 |

| Ovn type Scan-Line | Maximal operation pressure bar | Water contence of the boiler litres | Efficiency % | Distance to flammable materials in mm | | Distance to furnitures from the stove mm | Stove weight kg |
|--------------------|--------------------------------|-------------------------------------|--------------|---------------------------------------|---------------|--|-----------------|
| | | | | behind the stove | at the stoves | | |
| 805 Aqua | 4 | 14 | 87 | 22 | 175 | 750 | * |

* Scan-Line 805 Aqua Standard 218 kg

* Scan-Line 805 Aqua full stone 300 kg

* Scan-Line 805 Aqua stone top 250 kg

The nominal output is the output to which the stove has been tested.

The test was carried out with the secondary air 70% open.

1.18 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

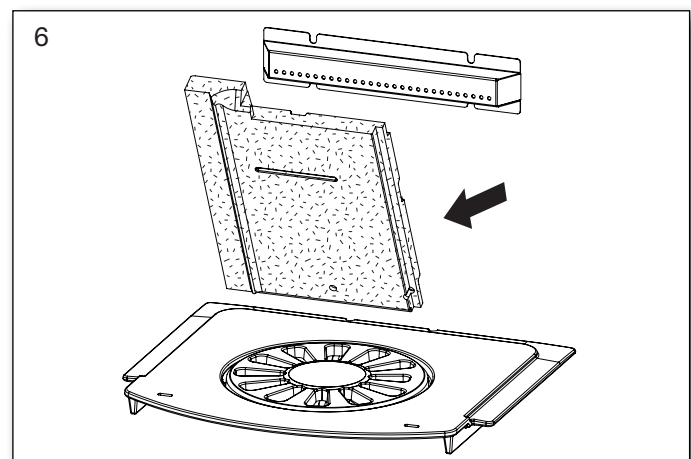
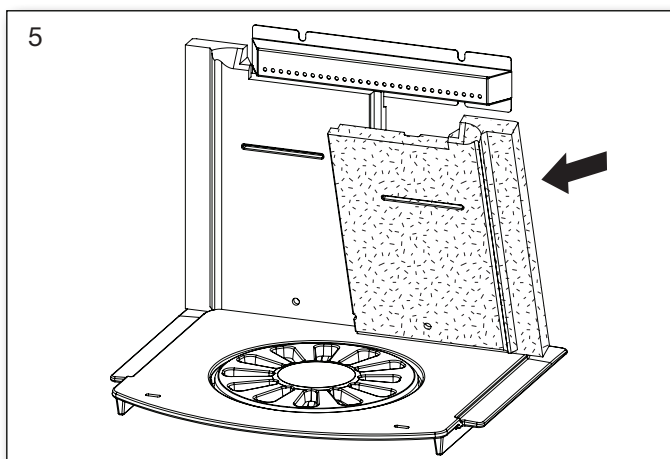
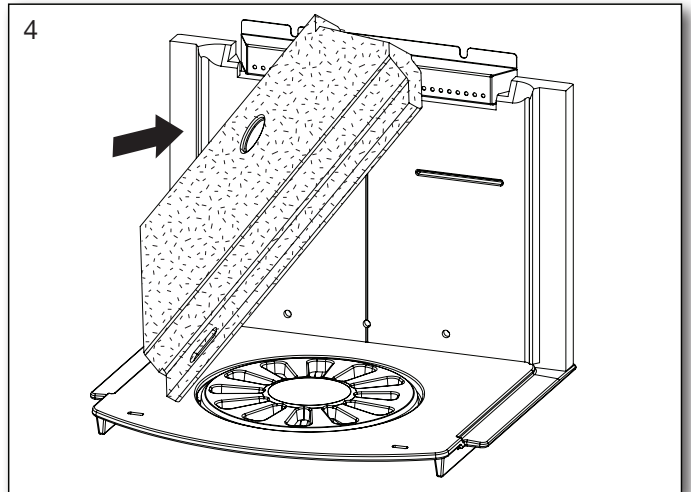
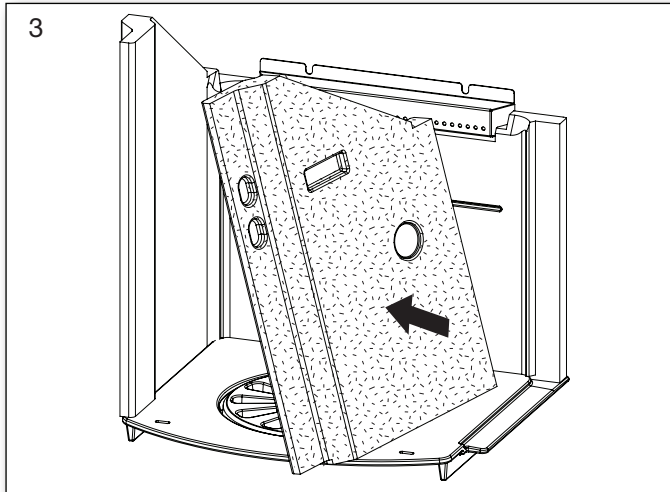
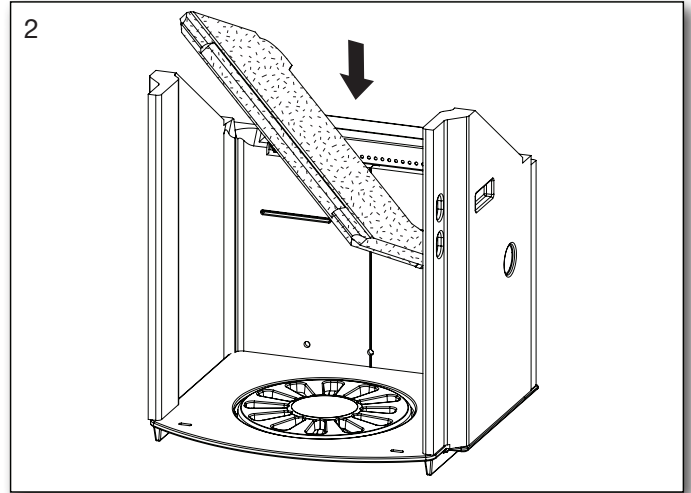
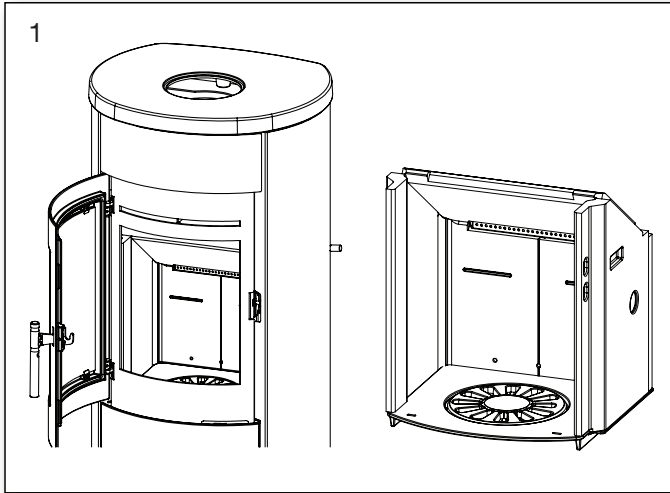


Inadequate installation, unauthorized alteration to the stove or the use of non-original parts will void the guarantee.

1.19 Cleaning after sweeping the chimney and replacing the stones

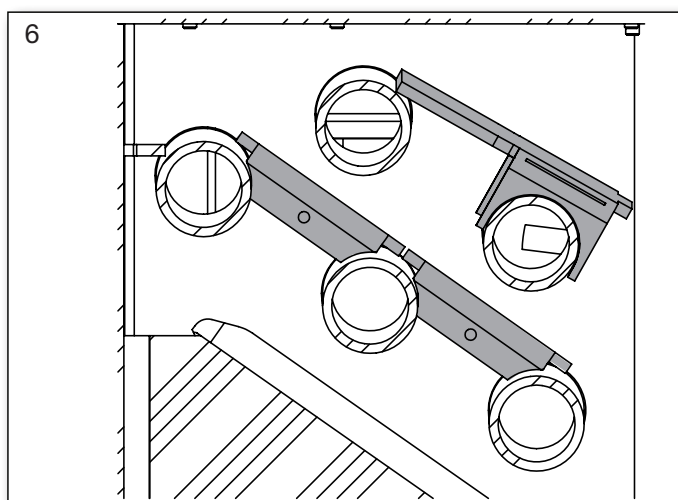
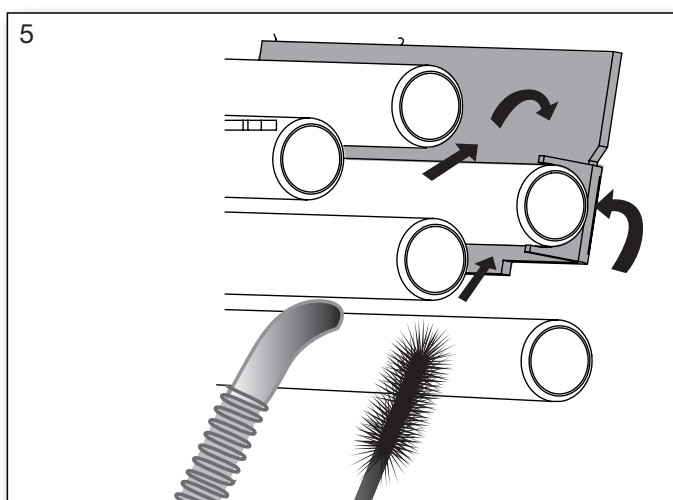
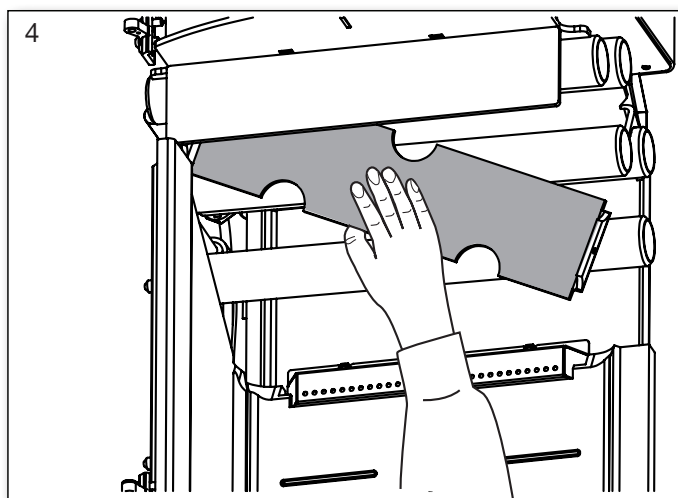
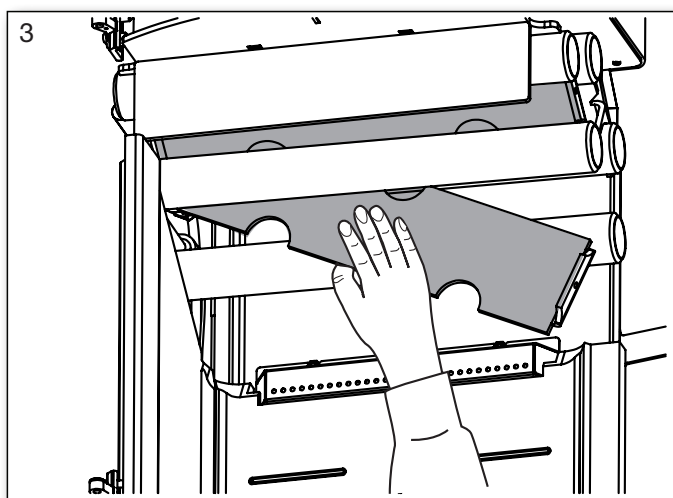
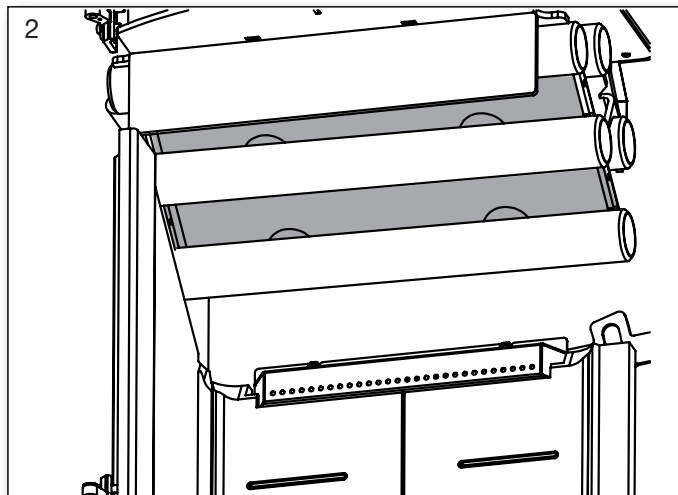
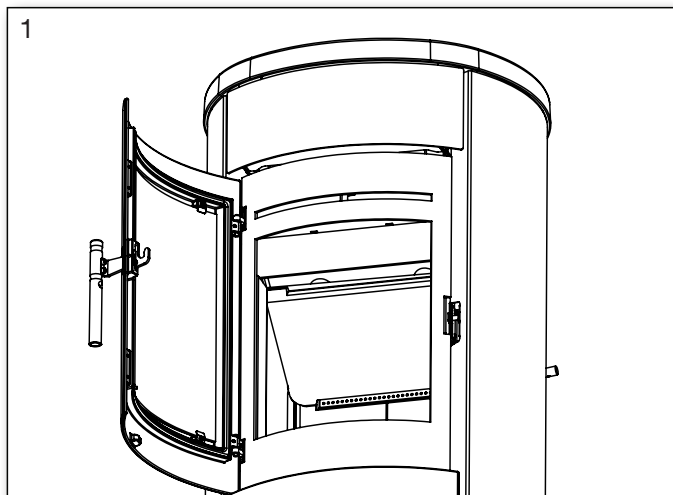
Note: it may be necessary to clean/vaccum the holes and air ducts behind the rear stone.

Order of removing Fire bricks.



Replace in reverse order. Starting with Fig. 6.

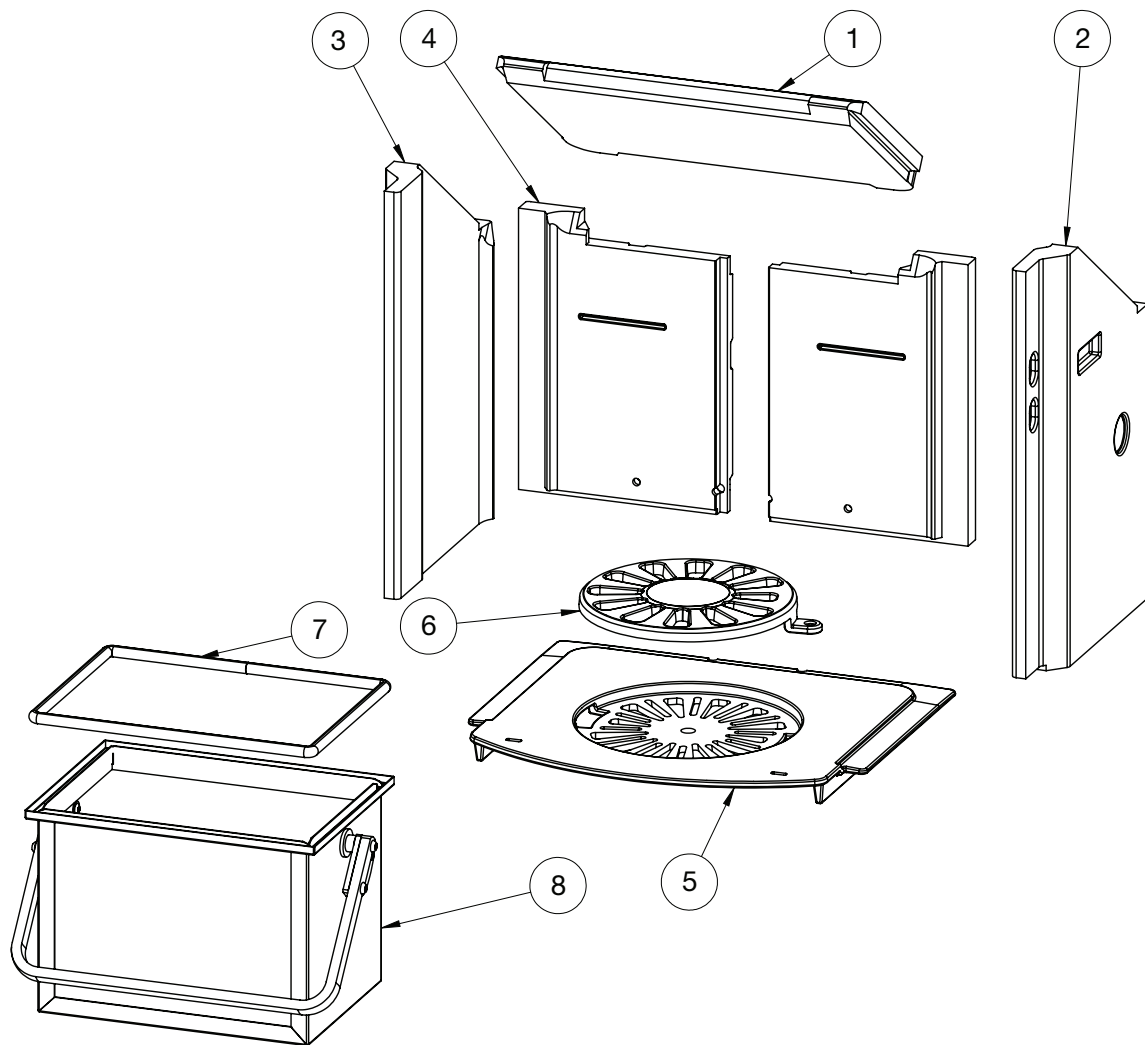
1.20 Removal of plates between the cooling pipes and cleaning of cooling pipes



Tip the top plate so that possible soot can fall down into the combustion chamber, afterwards it is very important that the plate is put back in place, as it otherwise will result in great loss of efficiency and raise the temperature of the chimney.

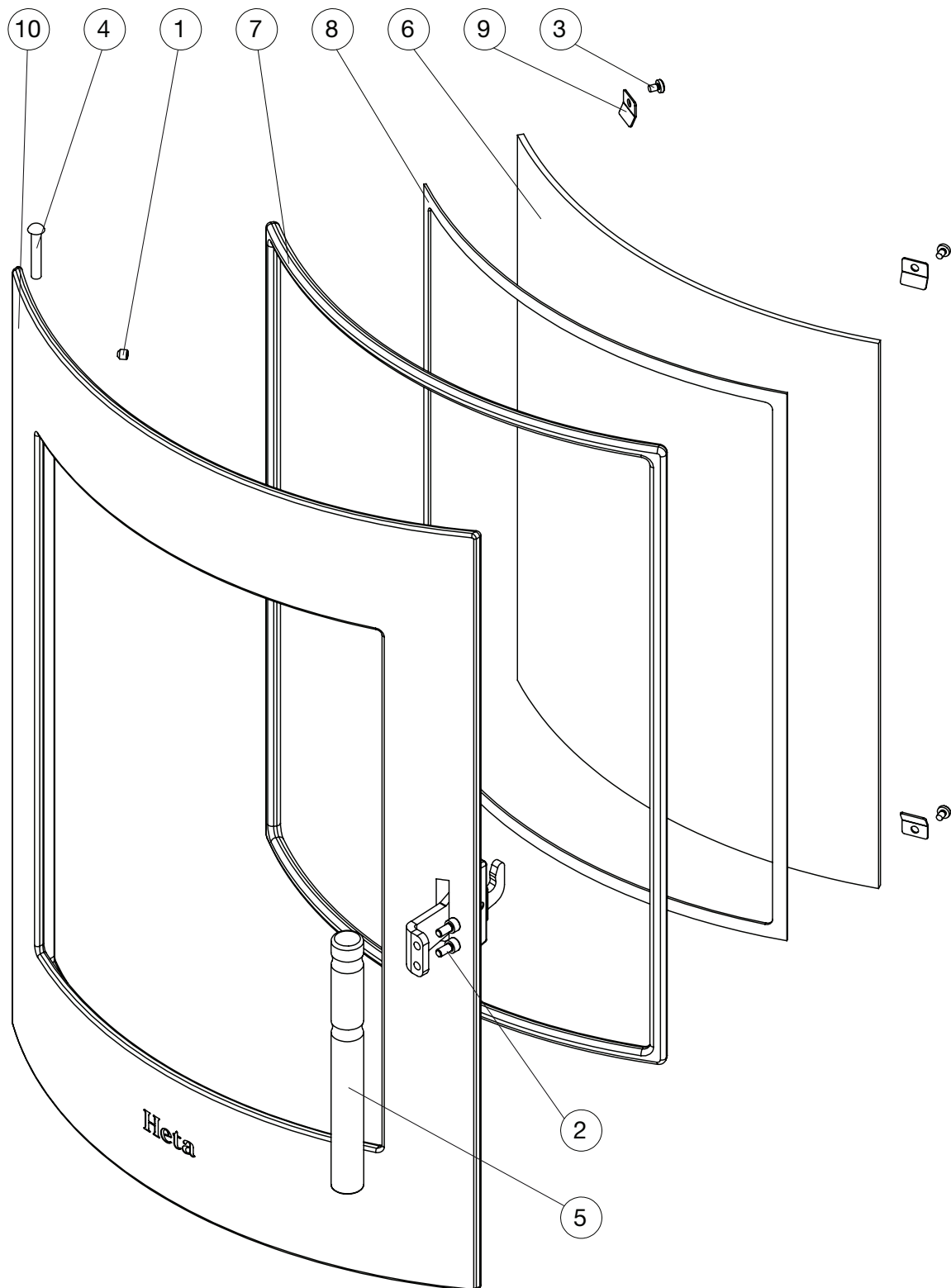
It is very important that the plates between the cooling pipes lies as assembled on the picture (as when you receive it from Heta), otherwise it will result in great loss of efficiency and raise the temperature of the chimney.

1.21 Scan-Line 805 Aqua Parts - Inside fire chamber



| Pos. | No. | Name | Qty. |
|------|-----------|-----------------------|------|
| 1 | 0023-0117 | Baffle | 1 |
| 2 | 0023-0118 | Side stone right | 1 |
| 3 | 0023-0119 | Side stone left | 1 |
| 4 | 0023-0236 | Rear stone (two-part) | 1 |
| 5 | 0030-0018 | Casted bottom | 1 |
| 6 | 0030-0201 | Grate ø195 mm | 1 |
| 7 | 0023-3017 | Gasket L= 910 mm | 1 |
| 8 | 4018-0030 | Ash container | 1 |

Parts - Inside fire chamber



| Pos. | No. | Name | Qty. |
|------|-----------|---------------------------------------|------|
| 1 | 0008-1002 | M6x6 Pinole screw | 2 |
| 2 | 0008-2005 | M5x10 screw | 2 |
| 3 | 0008-2304 | M4x6 screw | 4 |
| 4 | 0008-9082 | 6x35 Round head rivet | 2 |
| 5 | 0016-0084 | Handle | 1 |
| 6 | 0021-0055 | Glass | 1 |
| 7 | 0023-3008 | Glass gasket $\varnothing 12$ L=1,8 m | 1 |
| 8 | 0023-3013 | Glass band 3x8 L=1,8 m | 1 |
| 9 | 1013-0432 | Glass clips | 4 |
| 10 | 4005-0036 | Stove door | 1 |

Installation Instructions Contents

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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, and

must protect against any impact from embers that might fall out of the stove. 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 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.

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 re-

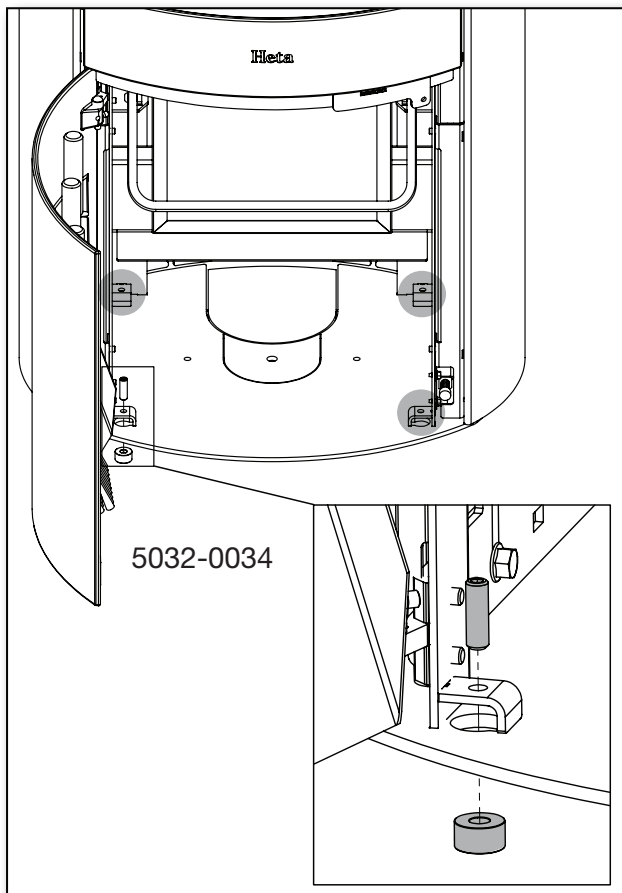
quired to bear the entire weight of the chimney (excessive weight may damage the stove).

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 cm².
- 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.

2.5 Mounting of still feet



2.6 Automatic vent

Carry out a thorough flushing of the system by separating the automatic air vent to remove impurities in the system.

Venting the automatic vent

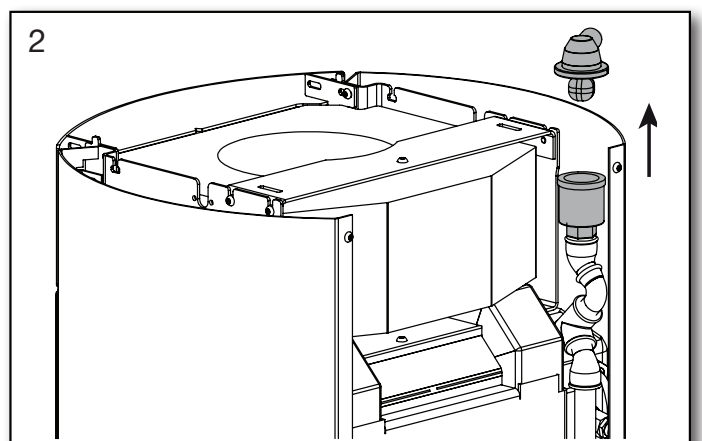
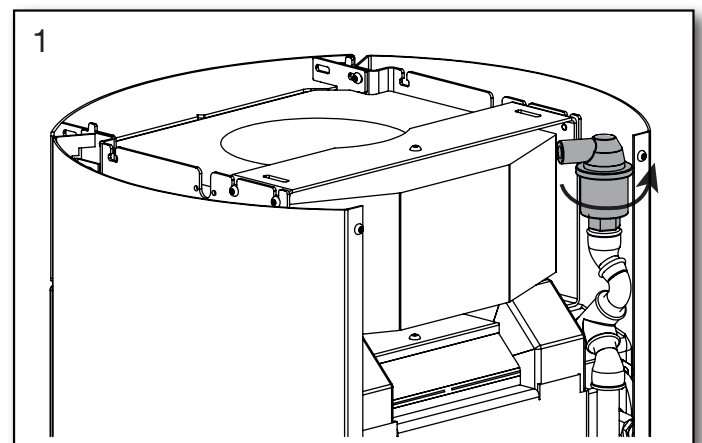
(Only the first time and after the system has been refilled).

To remove the air in the system after installation of the stove, unscrew the top of the automatic vent, so the air can escape. Fig. 1 and 2.

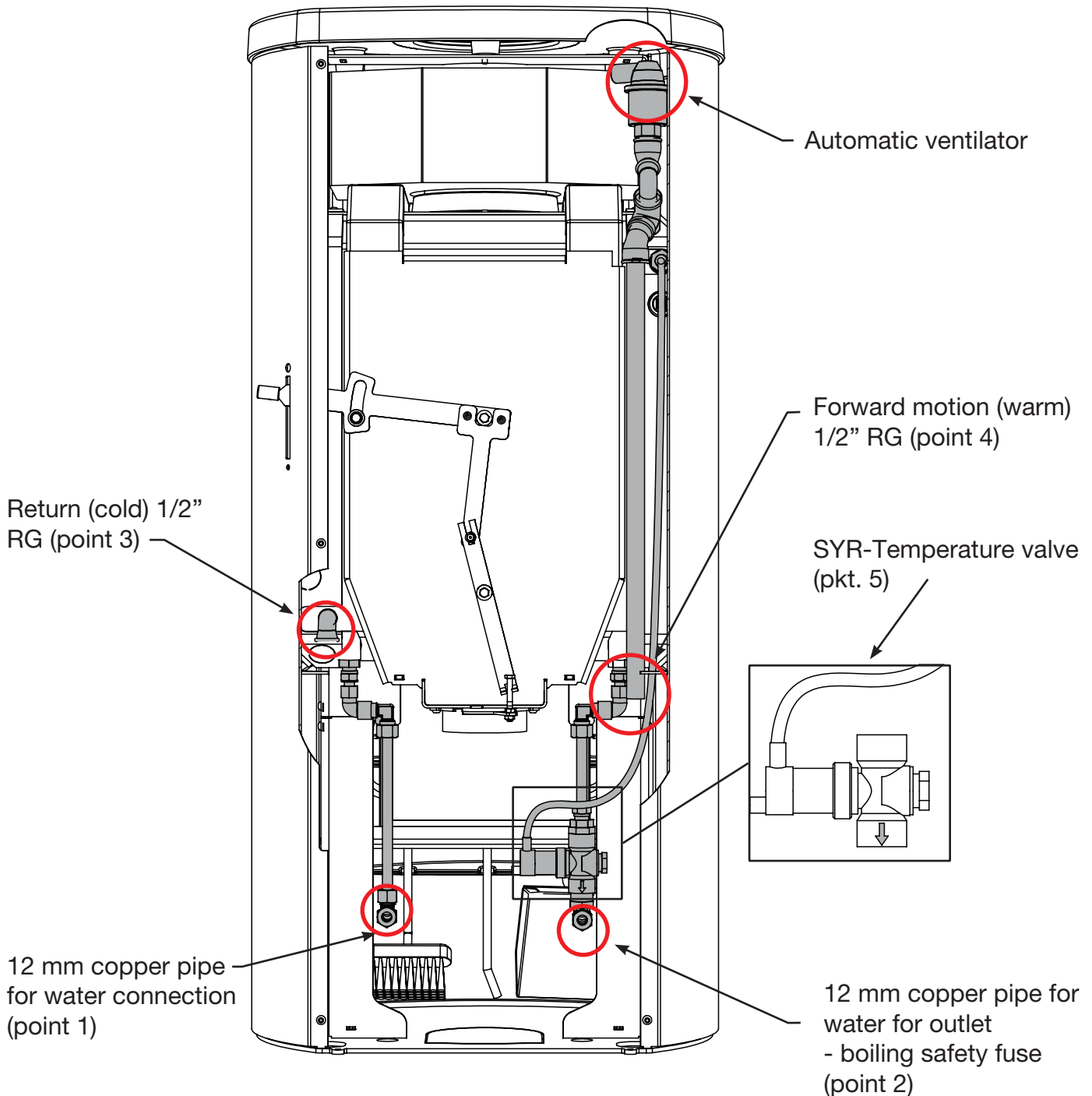
Close the water supply when water can be seen at the bottom of the air vent, then screw the top back on and the automatic air vent will remove the last air in the system.

Maintenance and service

Inspect the automatic air vent regularly (at least once a year), this is always done with a cold stove and without pressure on the system.



2.7 Connection water to Scan-Line 805 Aqua



Scan-Line 805 Aqua is delivered from Heta so that it can be fitted on an existing system with matching circulating pump and safety valve. By connection you should make sure that the stove is supplied minimum 140 litres of water per hour and that the existing system has a safety valve which opens by maximum 4 bar overpressure.

The SYR valve (point 5) is an extra safety device which opens by a temperature over 95° in the boiler.

Connect cold water pressure on maximum 15° on the 1/2" water connection (point 1) (make

sure that your water company supplies approx. 600 litres per hour. This could be checked by seeing if you can fill a 10 litres bucket on 1 minute.).

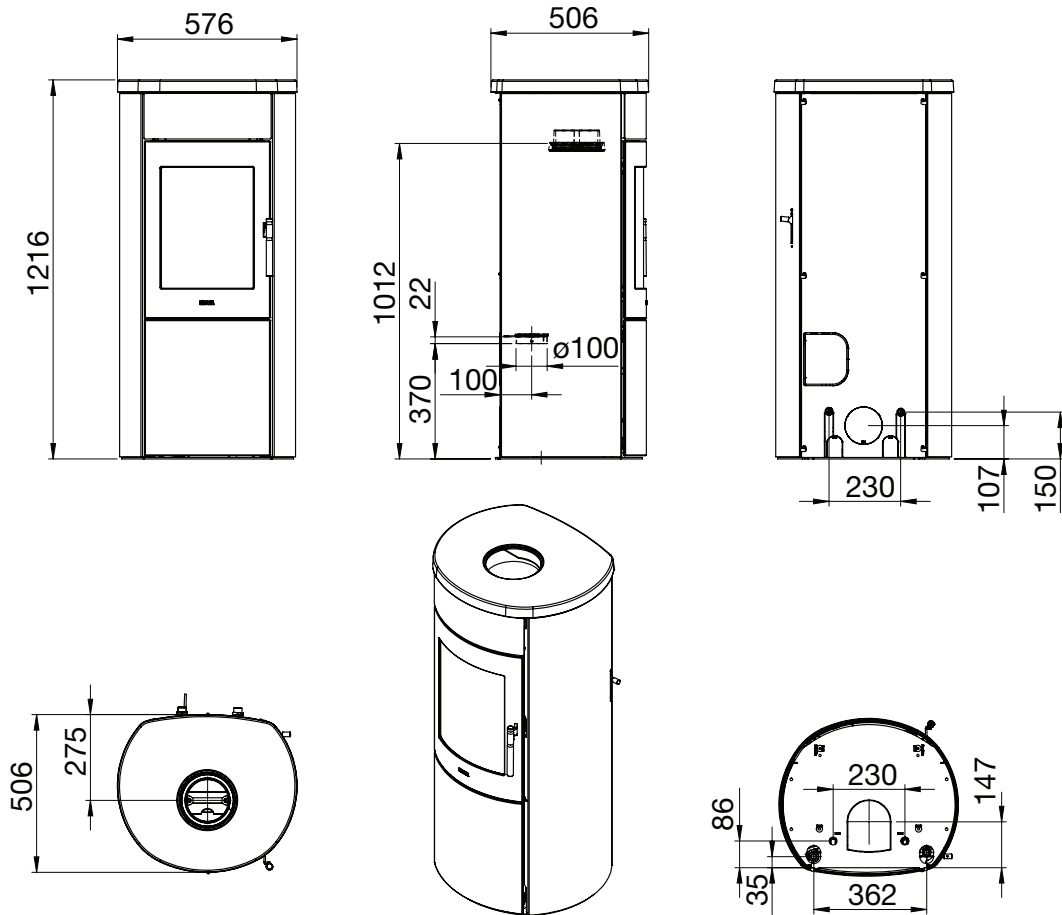
Connect the 12 mm copper pipe for (point 2) water for outlet to the existing outlet so that you visually can see if the extra safety device has been activated.



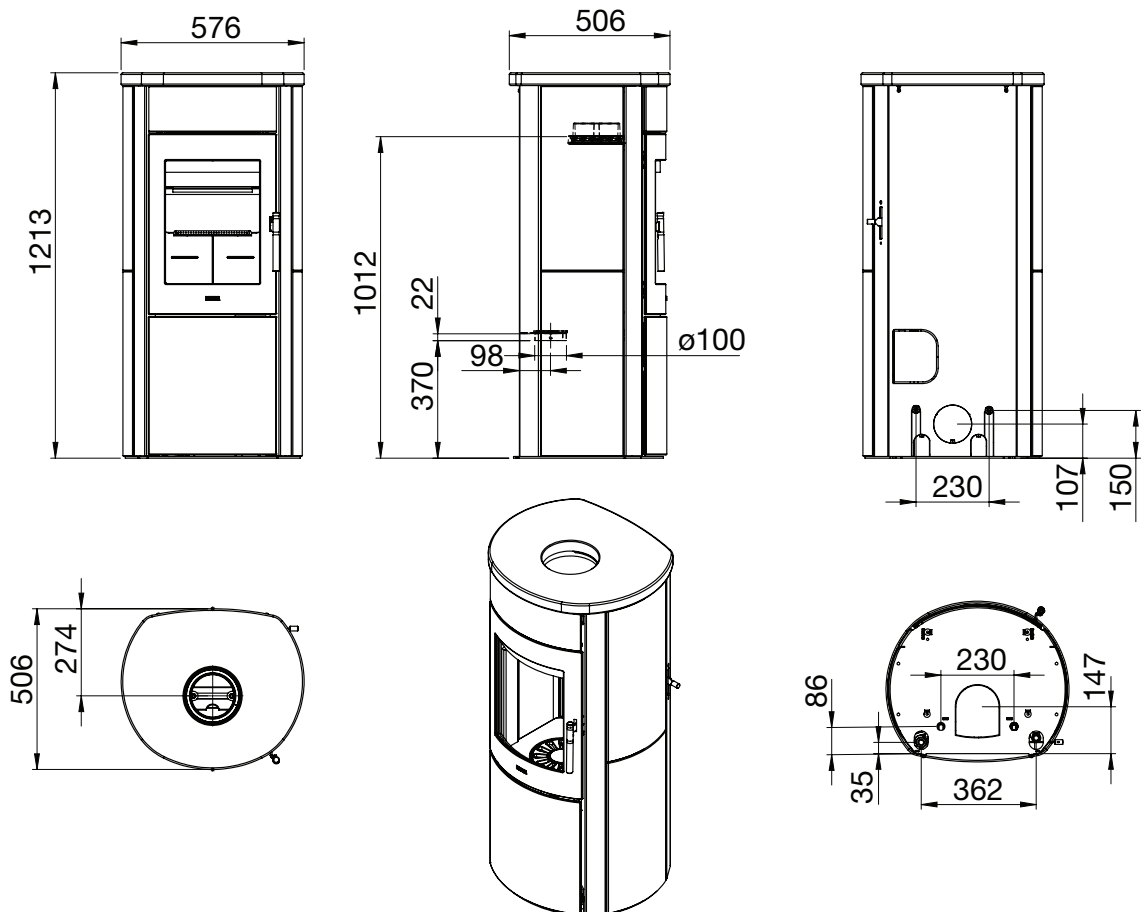
NB!! The installation should always be carried out in accordance with valid standards and regulations by an authorized electrician.

2.8 Stovedrawings/measurments

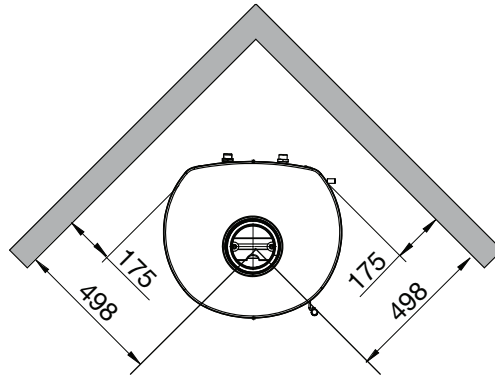
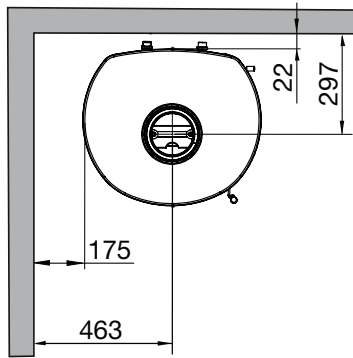
Scan-Line 805 Aqua Standard



Scan-Line 805 Aqua Stone



2.9 Clearances for installation EN 13 240

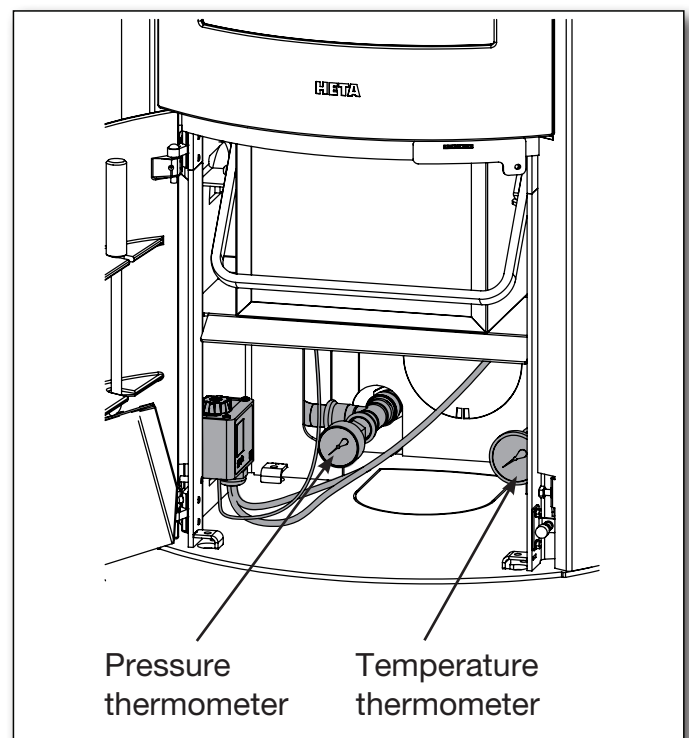
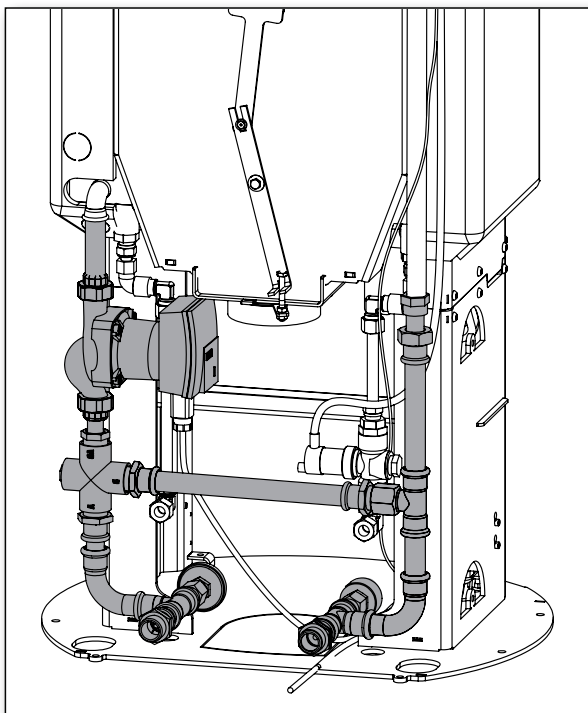
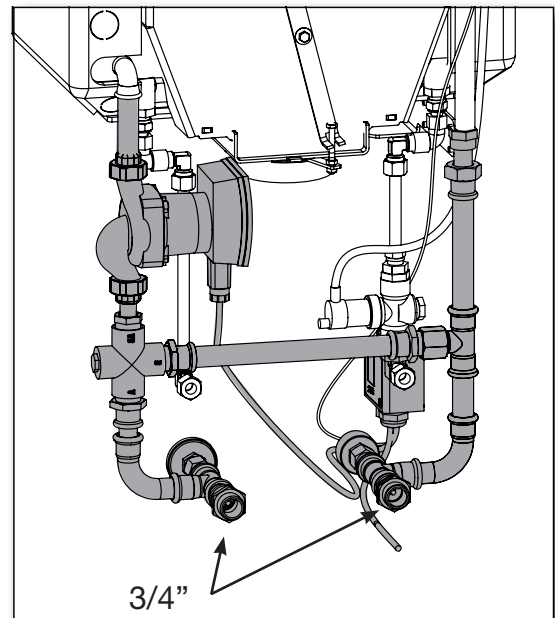
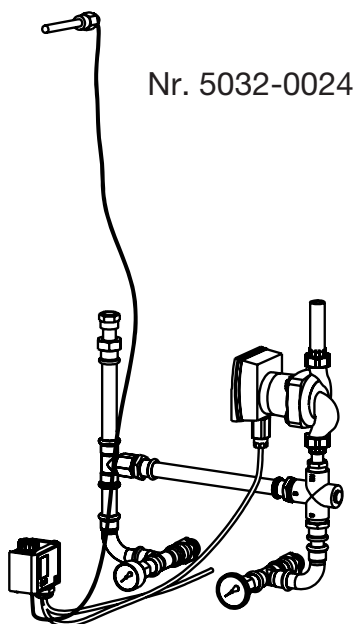


Combustible material

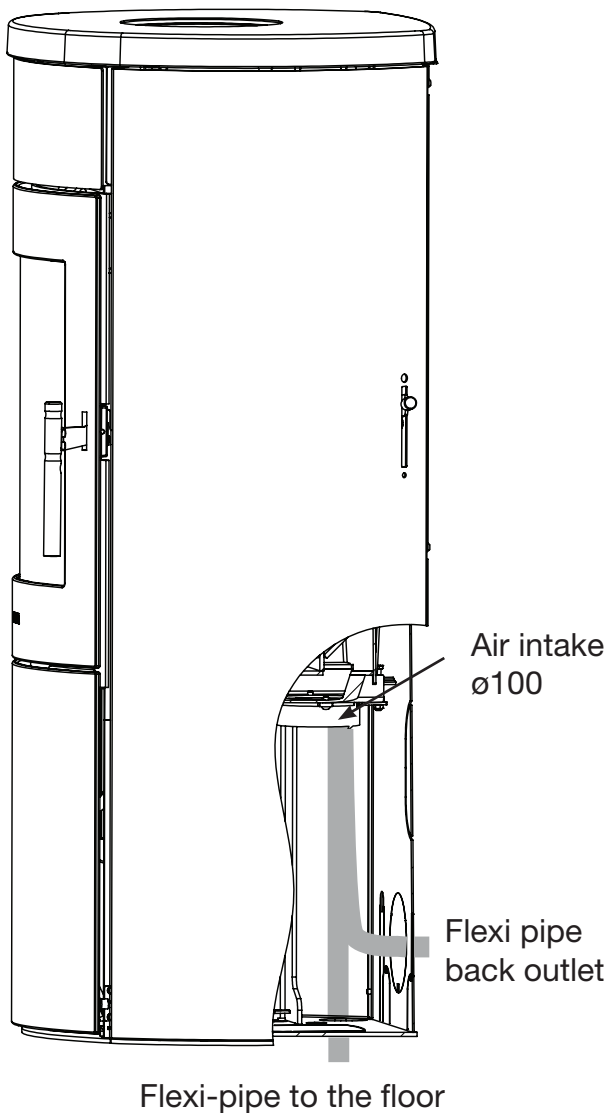


The dimensions are the minimum dimensions, unless otherwise stated.

2.10 Mounting of purchased Aqua performance kit



2.11 Connecting direct air below or behind



Direct air supply

The dimensions of the direct air supply pipe, may not be less than $\varnothing 100$ 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 $\varnothing 100$ mm.

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.

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

Ecodesign EU Declaration of Conformity

DoC Scan-Line 800 Aqua 1757-2013

Product fiche



| | |
|-------------------------|-------------------------------|
| Model identifier | Scan-Line 800, 805 Aqua 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 | | |

| | | |
|--|------------------|-------------------|
| Characteristics when operating with the preferred fuel only | | |
| Heat output | | |
| Item | Symbol | Value/Unit |
| Nominal heat output | P_{nom} | 8,7 kW |
| Minimum heat output | P_{min} | |
| Useful efficiency (NCV as received) | | |
| Useful efficiency at nominal heat output | $\eta_{th, nom}$ | 87% |
| 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 |


| | |
|--|-----|
| 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-1757-EN | | |

| Fuel | Preferred fuel | Other suitable fuel |
|--|----------------|---------------------|
| Wood logs with moisture content $\leq 25\%$ | 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 |
| | 77 | 22 | 56 | 666 | 115 |

| | |
|--|---|
| Technical documentation | |
| Indirect heating functionality: | 3,1 kW |
| Direct heat output: | 8,7 kW |
| Energy Efficiency Index (EEI): | EEI 116 |
| Fluegas temperature at nominal heat output | T 182°C |
| Energy efficiency class |  |

| | |
|---|-------------------------------|
| Safty | |
| Reaction to fire | A1 |
| Test of fire safety in connection with the burning of wood | Approved |
| Maximum water operating pressure | 4 bar |
| Distance to combustible materials Rear. Without insulation / with insulation | Minimum distances in mm 22 |
| Sides distance to combustible materials | 175 |
| Furniture distance | 750 |

Signed on behalf the manufacturer of 07.02.2022

The chimney sweep's signature Date _____


 Heta A/s
 JUPITERVEJ 22 - DK-7620 LEMVIG
 TLF. +45 9663 0600 - FAX +45 9663 0616
 Martin Bach

Signature _____

