

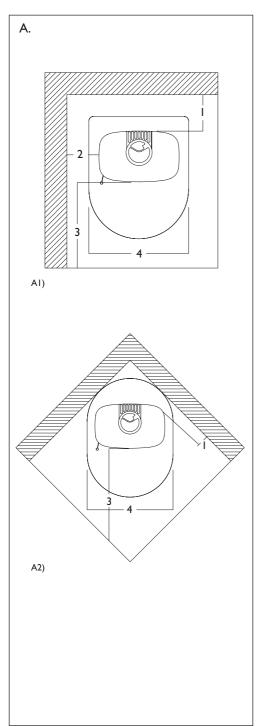
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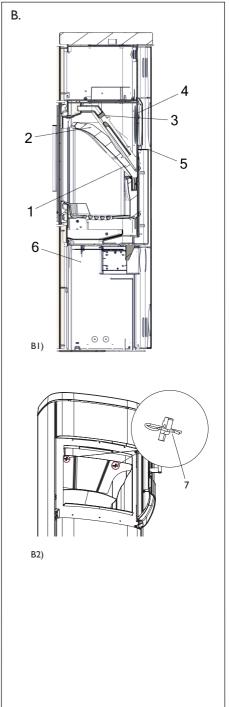


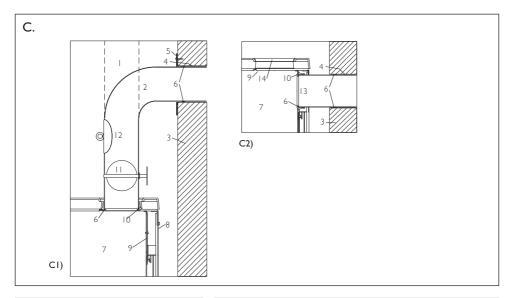


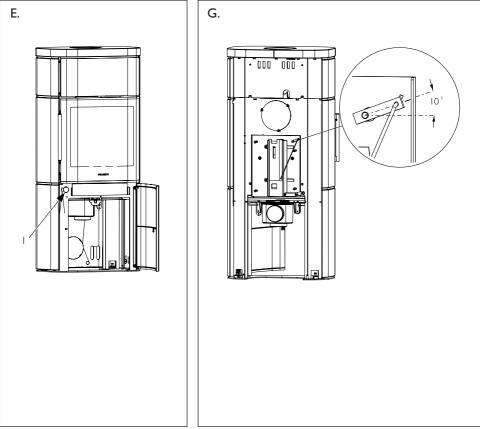
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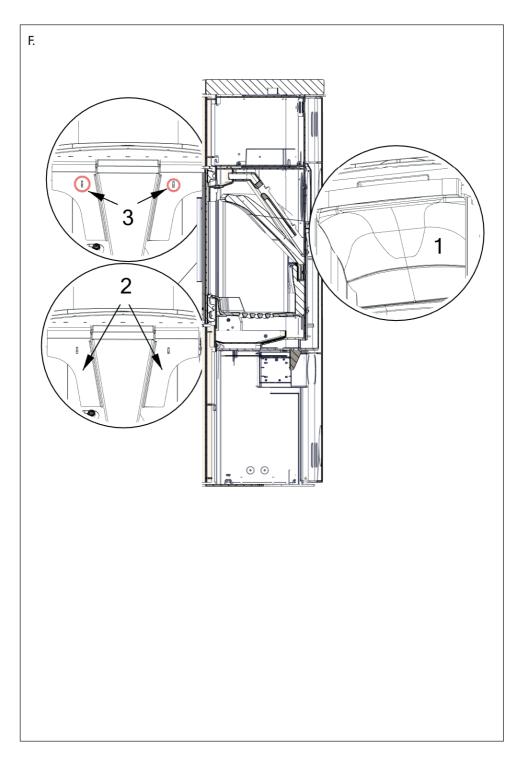


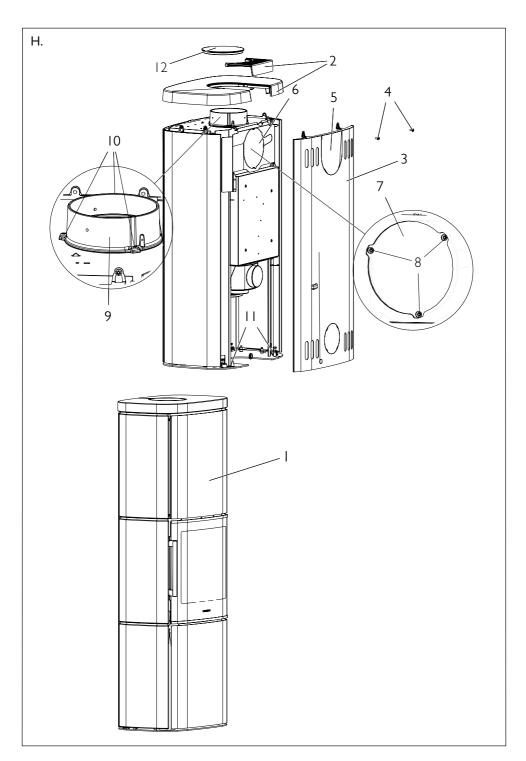




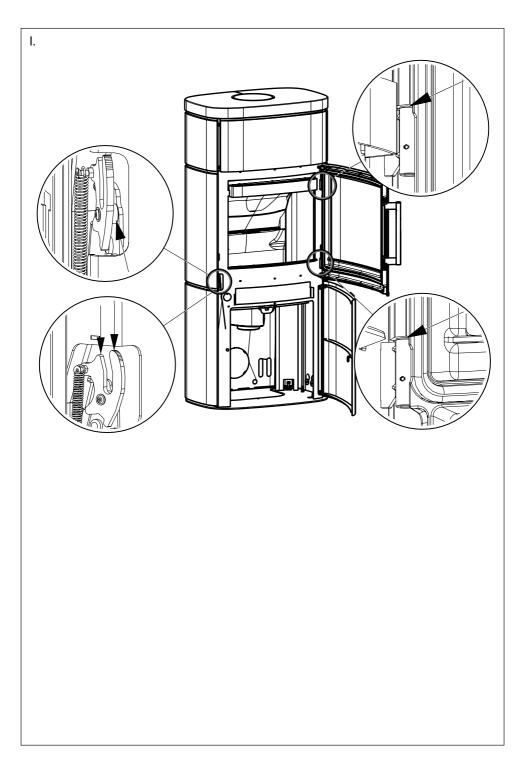


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# INSTALLATION

#### In general

Congratulations on your new HWAM woodburning stove. We are pleased that you have chosen a HWAM woodburning stove and confident that it will give you much pleasure. To ensure optimum operation and safety, we recommend that the installation should be carried out by an authorised HWAM retailer or a fitter recommended by the retailer. For an overview of HWAM retailers, visit www.hwam.com under "Retailer locations".

#### Safety

The installation of your HWAM woodburning stove must always comply with all European, national and local building regulations. The installation must be carried out in accordance with the instructions in the installation and user manuals and subsequently registered with the local authorities. Upon installation, the chimney sweep must approve the installation before you can start using the woodburning stove. All HWAM woodburning stove packaging material must be handled in accordance with local waste management regulations.

#### Room requirements

Always ensure a supply of fresh combustion air to the room where the stove is to be installed. The woodburning stove uses approx. 8-24 m³ of air per hour. A window that can be opened or an adjustable air valve will be sufficient. It must not be possible to block the adjustable air valve/grate. In newly built/ airtight dwellings, we recommend that a fresh air system should be installed for the direct supply of external air to the combustion. This fresh-air system may be bought separately.

Before installing the stove, you must ensure that the load-bearing capacity of the floor can withstand the weight of the stove and the chimney. The weight of the chimney should be calculated according to its dimensions and height.

#### Technical measures and data

Test results from nominal test EN 13240		
Nominal heating effect	7,0 kW	
Flue gas temperature EN 13240 measurement point	267°C	
Flue gas temperature measured in the outlet socket	320°C	
Exhaust gas flow	5,9 g/s	
Efficiency	80 %	
Annual efficiency (EcoDesign)	70 %	
PM	28 mg/m³	
OGC	82 mg/m³	
NO <sub>2</sub>	100 mg/m <sup>3</sup>	
CO at 13% O <sub>2</sub>	1000 mg/m <sup>3</sup>	
CO at 13% O <sub>2</sub>	0,08 %	
Energy efficiency index	106	
Energy efficiency class	A	
Test result based on NS 3058		
Particle emissions	1,74 g/kg	

Model	Weight	Height	Width	Dept
HWAM 4620c/4620m	119/117 kg	84,8 cm	63,0 cm	40,6 cm
HWAM 4640c/4640m	133/131 kg	114,3 cm	63,0 cm	40,6 cm
HWAM 4640c/4640m with soapstone	197/195 kg	114,3 cm	63,0 cm	40,6 cm
HWAM 4640c/4640m with natural stone cladding	182/180 kg	114,3 cm	63,0 cm	40,6 cm
HWAM 4660c/4660m	153/151 kg	138,8 cm	63,0 cm	40,6 cm
HWAM 4660c/4660m with soapstone cladding	224/222 kg	138,8 cm	63,0 cm	40,6 cm
HWAM 4660c/4660m with natural stone cladding	209/207 kg	138,8 cm	63,0 cm	40,6 cm
Heat storage stones HWAM 4660	Ca. 45 kg			

## Floor plate

European, national and local regulations must be observed in terms of the size and thickness of a non-combustible floor covering the floor in front of the combustion chamber opening. Ask your HWAM retailer for assistance. The combustion chamber opening is 45,0 cm wide.

#### Distance to combustible materials

Min. distances - uninsulated flue gas pipe:	HWAM 4600	HWAM 4600
(drawing A)	with steel cladding	with stone cladding
I. Recommended for brick wall, back	10 cm	I0 cm
2. Recommended for brick wall, side	I0 cm	I0 cm
I. For combustible wall, back	20 cm	20 cm
2. For combustible wall, side	35 cm	45 cm
1.To combustible wall, corner installation, 45°	I2 cm	I5 cm
3. Distance to furnishings in front	130 cm	140 cm

Min. distances - insulated flue gas pipe:	HWAM 4600	HWAM 4600
(drawing A)	with steel cladding	with stone cladding
I. Recommended for brick wall, back	7 cm*	7 cm*
2. Recommended for brick wall, side	7 cm*	7 cm*
I. For combustible wall, back	7 cm*	7 cm*
2. For combustible wall, side	40 cm	45 cm
1.To combustible wall, corner installation, 45°	12 cm	I5 cm
3. Distance to furnishings in front	130 cm	140 cm

<sup>\*</sup>We recommend 10 cm to facilitate service on HWAM® Autopilot™.

# Remember to pay attention to the applicable regulations concerning the required distance between the wall and smoke pipe.

Please be aware that not all glass parts are heat-resistant. For this reason, a glass wall should sometimes be treated as a combustible wall, in which case we ask you to contact your local chimney sweep or glass producer to hear at what distance the stove should be kept from glass.

#### Requirements for chimney and smoke pipe

The height of the chimney must ensure sufficient draught and prevent any smoke nuisance. As a general rule, satisfactory draught conditions are achieved if the chimney is 4 m above the stove and at least 80 cm above the ridge. If the chimney is placed at side walls, the top of the chimney should always be higher than the ridge or the tallest point of the roof. Always be aware of any national and/or local regulations applying to thatched roofs and the location of the chimneys.r.

The woodburning stove requires a minimum draught of 12 Pa (measured at EN 13240 measurement point). If measured just above the smoke flue socket, the chimney draught must be 18-20 Pa.

The chimney must have a minimum clearing of  $\varnothing$  150 mm. The chimney must be provided with an

easily accessible cleaning door. The chimney and flue duct must be of flue class T400 and be CE marked. Furthermore, it must have obtained the classification of G in soot fire testing. The required distance to combustible material must be complied with in accordance with the brand label. Ask your HWAM retailer for further information.

# Changing the flue outlet from a top outlet to a back outlet (drawing H)

Steps I and I2 only apply to the HWAM 4660 and HWAM 4680 models.

- 1. Remove the heat storage area front (1) by lifting the front and pulling away from the stove.
- 2. Lift the top plate (2) off the stove.
- 3. Remove the rear plate (3) by loosening the two screws (4). The rear plate has a cut-out for the flue pipe. Cut out the plate (5) within this cut-out.
- 4. The heat shield has a cut-out for the flue pipe. Cut out the plate (6) within this cut-out.
- 5. Remove the cover plate (7) on the rear of the stove (behind the cut-out plate in the heat shield) by removing the three screws (8).
- 6. Remove the smoke ring (9) above the combustion chamber by removing the three screws (10).
- 7. Place the smoke ring (9) in front of the flue outlet hole on the rear of the stove and affix using the three screws (10).
- 8. Place the cover plate (7) so that it closes the flue outlet on top of the combustion chamber (where the smoke ring was just removed) and affix using the three screws (8).
- 9. Place the rear plate (3) on the guide taps (11) on the rear side of the stove's base plate and affix the rear plate using the two top screws (4).
- 10. Lie the top plate (2) on the stove.
- 11. Place the cast-iron or stone top cover (12) in the hole in the top plate.
- 12. Re-attach the front (1) to the heat storage area.

An accessory top cover is available to cover the hole in the stove top plate if the smoke outlet is connected at the rear of the stove.

## **Connection to chimney**

All the stoves have both rear and top smoke outlet that can be connected to an approved steel chimney on top or directly out at the rear to a chimney.

Make sure that the chimney is tight and that no false draft is caused around neither the cover plate, in connection with a covered smoke outlet, nor the cleanout door and pipe connections. Please note that bent and/or horizontal smoke pipes will reduce the effect of the chimney draft.

Vertical cross-section of smoke flue (Drawing C)

CI: Top smoke outlet

C2: Back outlet

- Steel chimney.
- 2. Flue gas elbow. Fits into smoke flue socket.
- 3. Brick-built jamb of flue.
- 4. Built-in pipe sleeve. Fits smoke flue.
- 5. Wall rosette. Covers disruption to wall around pipe sleeve.
- 6. Joint. Sealed with packing material.
- 7. Smoke outlets of the HWAM stove.
- 8. Cover plate in the external rear plate break off if a back outlet is required.
- 9. Cover screwed in position: secure it to the top plate with screws if a back outlet is required.
- 10. Smoke bushing: to be screwed to the back of the stove if a back outlet is required.
- 11. Adjusting damper in smoke pipe.
- 12. Cleaning hatch.
- 13. Smoke pipe to back outlet.
- 14. Loose cast iron cover: to be placed on the top plate when there is a back outlet.

## Fitting the loose parts

Before the stove is installed, you must ensure that all loose parts are fitted correctly. Check that all insulation plates of the combustion chamber have been properly placed, i.e. that the bottom plate is horizontal and that the side plates are vertical and reach all the way up to the steel sides of the combustion chamber and down to the bottom plate.

Vertical cross-section of the stoves (Drawing B):

- 1. Bottom smoke shelf. Must rest on the steel rail at the back of the combustion chamber.
- 2. Top smoke shelf. Must rest on the bottom smoke shelf.
- 3. The steel smoke guide plate is in two parts. Each half hangs on a hook under the top plate and is equipped with two pins (7) that serve as protection during transportation. Remember to remove the two pins before you start using the stove.
- 4. Back flue outlet. Closed at the factory using a plate affixed with screws. The flue outlet is thus concealed behind the rear plate.
- Removable rear plate which conceals the HWAM® Autopilot™. Must always be installed if the stove is next to a flammable wall.
- 6. Loose heat shield under the ash pan. This can be used as a lid when the ash pan is removed for emptying. This must always be mounted when the stove is burning

#### Chimney

The chimney is the "engine" of the stove and it is crucial for the functioning of the woodburning stove. The chimney draft provides a partial vacuum in the stove. This vacuum removes the smoke from the stove, sucks air through the dampers for the so-called glass pane rinse which keeps the glass free of soot, and sucks in air through both primary and secondary dampers for the combustion.

The chimney draft is created by the differences in temperature inside and outside the chimney. The higher the temperature within the chimney, the greater the draft. It is crucial, therefore, that the chimney is warmed up properly before closing the damper and limiting the combustion in the stove (a brick chimney takes longer to warm up than a steel chimney). On days where the weather and wind conditions create insufficient draught inside the chimney, it is even more important to warm up the chimney as quickly as possible. The trick is to quickly get some flames going. Split the wood into extra fine pieces, use an extra firelighter, etc.

If the stove has not been used for a longer period, it is important to check that the chimney pipe is not blocked.

t is possible to connect several devices to the same chimney. However, it is important to first check the applicable rules.

#### Chimney sweeping

To prevent the risk of chimney fires, the chimney must be cleaned every year. The flue duct and the smoke chamber above the baffle plate must be cleaned together with the chimney. If the chimney is too tall to be cleaned from above, it must be equipped with a soot door.

In case of a chimney fire, close all dampers and call the firefighters. Before any further use, have the chimney checked by the chimney sweeper.

# FIRING MANUAL - WOOD

## Your first heating session

The lacquer will be fully hardened after the stove has been used, and the door and the ashpan should be opened very carefully as there will otherwise be a risk that the gaskets will stick to the lacquer. In addition the lacquer may initially give off an unpleasant odour, so make sure that the room is well ventilated.

#### Tips about fuel

# Approved fuel types

The wood burning stove is EN approved for combustion of wood only. It is recommended to use dried chopped wood with a water content of a maximum of 18%. Stoking a fire with wet wood results in soot, environmental problems, and a less efficient fuel economy.

## Recommended wood types

All types of wood, for instance birch, beech, oak, elm, ash, conifers, and fruit trees can be used as fuel in your insert. The great difference is not in the fuel value, but in the weight of the wood types per cubic metre. Beech weighs more per m³ of wood than common spruce, for instance. This is why more common spruce is required, in terms of volume, to obtain an amount of heat similar to that of beech. Heavy types of wood such as ash, beech, oak and elm are generally not that easy to light up. In addition, they burn more slowly and give off more embers. Light types of wood such as birch, maple, spruce and pine are more easy to light up. They burn faster and give off fewer ambers. You may therefore take advantage of the light types of wood for lighting and use the heavier types of wood to ensure a longer burning time..

#### **Banned fuel types**

It is not allowed to stoke a fire with the following: printed matter, plywood, plastic, rubber, fluid fuels, and rubbish such as milk cartons, lacquered wood or impregnated wood and fossil fuels. The reason that you should not apply any of the above is that during combustion they develop substances that are health hazardous and harmful to the environment. These substances could also damage your wood burning stove and chimney, rendering the product warranty void.

#### Storage of wood

A moisture content of 12-18% is achieved by storing recently felled wood outdoors under a lean-to for at least one year, preferably 2 years. Wood stored indoors has a tendency to become too dry and combust too quickly. However, it might be advantageous to store fuel for lighting a fire indoors for a few days prior to use.

It is recommended to purchase a wood moisture meter to continuously check that the firewood has the correct moisture content before using it for firing. Split the wood and measure the moisture content of the split surfaces.

#### **Recommended dimensions**

The dimensions of the fuel are important to good combustion. The dimensions should be as follows:

Fuel type	Length in cm	Diameter in cm
Wood for kindling a fire (finely chopped)	30-45	2-5
Chopped wood	30-45	7-9

#### Special fire lighting guide for stoves with stone cladding

Stone are natural products which need to adjust to temperature changes. We recommend following the procedure below:

#### I. First stoking



Turn the air control knob (drawing E, I) clockwise to maximum. Place two pieces of wood (5-8 cm in diameter) horizontally in the bottom of the combustion compartment (corresponding to I-I,5 kg). Place 6-I0 pieces of kindling randomly on top. Place four firelighters between the top layer of kindling. Light up the fire-lighters and close the stove door. If condensation forms on the glass, keep the door ajar for a little while and close again. When the fire has gone out, open the door and leave it open while the stove cools to room temperature.

#### 2. Second stoking

Turn the air control knob (drawing E, I) clockwise to maximum. Place two pieces of wood (5-8 cm in diameter) horizontally in the bottom of the combustion compartment (corresponding to I-1.5 kg). Place 6-10 pieces of kindling randomly on top. Place four firelighters between the top layer of kindling. Light up the fire-lighters and close the stove door. If condensation forms on the glass, keep the door ajar for a little while and close again. When there are no more visible yellow flames, and a right ember is there, you can fire again. The layer of embers is suitable when the pieces of wood begin to disintegrate and the bottom of the stove is covered by embers. Place 2 pieces of new firewood (up to 1.2 kg each) with a diameter of approx. 7-9 cm in the combustion chamber. When all of the wood has caught fire, turn the air control knob (1) to middle position. Allow the fire to burn and let the stove cool to room temperature before stoking again.

#### 3. Third stoking

Repeat the procedure for the second stoking. Allow the fire to burn and let the stove cool to room temperature after the fire has gone out.

## Restoking

Follow the general instructions, see the sections "Lighting the stove" and "Stoking".

# Lighting the stove (drawing E)

A successful combustion process requires that the wood is lit in the right way. A cold stove and a cold chimney challenge the combustion process. Be careful to make a good lighting with suitably dry wood, using kindling and lighting the fire in the top layers of kindling. It is important to achieve a high flue gas temperature quickly.



Turn the air control knob (1) clockwise to maximum. Place two pieces of wood (5-8 cm in diameter) horizontally in the bottom of the combustion compartment (corresponding to 1-1.5 kg). Place 6-10 pieces of kindling randomly on top. Place four firelighters between the top layer of kindling. Light up the fire-lighters and close the stove door. If condensation forms on the glass, keep the door ajar for a little while and close again.

When the kindling is burning well, turn the air control knob (I) to middle position. If the fire goes out when the air control knob is turned, return it to maximum position again until the fuel catches fire and then turn it to middle position again. Allow the kindling to burn up completely until there are no longer any visible flames. The stove can then be stoked again.

Important! The ash pan must not be opened during the lighting stage and must always be kept closed when the stove is lit or the HWAM® Autopilot™ might be damaged. Only open the door when lighting the stove, refuelling it and cleaning it. Never leave a stove before there are lasting flames in the wood after firing!

#### Stoking (drawing E)

When there are no more visible yellow flames, and a right ember is there, you can fire again. The layer of embers is suitable when the pieces of wood begin to disintegrate and the bottom of the stove is covered by embers. Put at least two pieces of wood into the stove, weighing up to 1.2 kg each. Do not regulate the stove again as the HWAM® Autopilot™ will do this, but the temperature can be adjusted with the air control knob (1). Turning it to minimum (counter-clockwise) will reduce the rate of combustion and

make the stove burn slower. Turning to maximum (clockwise) will increase the rate of combustion and make the stove burn faster. Wait until the layer of embers is suitably low before stoking again.

During combustion, the outer surfaces of the stove will become hot, and due care must therefore be shown.

#### When burning is complete

When the stove is not in use, turn the air control knob all the way to the left.

#### Cleaning the glass

We recommend wiping the glass after a fire. This is best done using a paper towel.

#### Fuelling with coal or pet coke

The stove is not approved to use coal or pet coke as a fuel.

#### Operating the heat compartment damper

There is a damper at the back of the stove between the top plate and the heat compartment that opens and closes the flow of convection air in the heat compartment. The supply of convection air can be opened by moving the damper to the left and closed by moving the damper to the right.

To store heat in the heat storage stones in the heat storage area as quickly as possible, it is recommended that the convection vent be kept closed while the fire is lit.

With the convection vent closed, the heat storage area retains the heat stored in the heat storage stones for the longest possible duration. If the vent is opened, the heat stored in the stones in the heat storage area will be released into the room as quickly as possible.

# FIRING IN GENERAL

#### Rapid or fierce heat

Rapid or fierce heat is obtained by burning many small pieces of wood.

#### Maximum amounts of fuel:

The maximum allowed amount of fuel per hour is:

Wood: 3 kg

If these limits are exceeded, the stove will no longer be covered by the factory guarantee, and it may also become damaged due to excessive heat, the glass may turn white, for example..The stove has been approved for intermittent use.

# Typical re-firing interval

Typical re-firing interval at nominal performance

Wood: 45 min (1.8 kg)

#### Prolonged burning time

The longest burning time is achieved by turning the air control knob counter-clockwise (to the left) when the flames are about to die. This will ensure the longest period with embers. When adding new firewood, always remember to check that the wood has caught fire properly. If not, the air supply must be increased by turning the air control knob to the right. When the air control knob is turned all the way to the left, no primary air will enter the wood-burning stove through the bottom plate in the combustion chamber. The stove cannot be lit after a new firing without the air control knob being turned to the right, which allows primary air to enter the unit.

#### **Insufficient firing**

If the fireproof materials in the combustion chamber are blackened after a fire, then the stove is polluting, and the  $HWAM^{\otimes}$  Autopilot<sup>TM</sup> is malfunctioning. Therefore, more air must be supplied by turning the air control knob clockwise (to the right). It may also be necessary to burn more wood.

#### How to achieve the best combustion

#### Use clean and dry wood

Wet wood results in inefficient combustion, plenty of smoke, and soot. Furthermore, the heat will dry the wood, not heat up the room.

# · The fire should only be stoked with a little wood at a time

You achieve the best combustion by starting up a fire often and using only a little wood. If you use too much firewood, it will take some time before the temperature reaches a level where you achieve a good combustion.

## · Make sure there is the right amount of air

You should also make sure that there is plenty of air — especially in the beginning - so the temperature in the wood burning stove climbs quickly. In this way the gasses and particles released during the combustion will be consumed by the fire. Otherwise they build up soot in the chimney (constituting a chimney fire risk) or will be released in a non-combusted state into the environment. The wrong amount of air supply creates inefficient combustion and a modest effect.

#### · Don't savour the fire during night time

We advise against adding fire wood to your stove and reducing the air supply at night in an attempt to still have some embers left in the morning. If you do so, large amounts of hazardous smoke will be emitted, and your chimney will be exposed to unnecessarily large amounts of soot with the risk of a chimney fire.

# MAINTENANCE

#### Cleaning

Any maintenance of the stove should only be carried out when it is cold. Daily maintenance is limited to vacuum cleaning the stove externally, using the soft brush attachment. You can also dust the stove using a dry, soft cloth or brush. But remember, only when the stove is cold. Do not use water, spirit or any other kind of cleaner, as this will damage the lacquer.

Once a year, the stove should be thoroughly serviced. The combustion chamber should be cleared of ashes and soot. The hinges and the closing hook must be greased with liquid copper fat spray (heat-resistant up to  $1100^{\circ}$ C), see drawing I. Lift the door approx.  $\frac{1}{2}$  cm and spray copper fat onto the hinge leaf.

## **Service inspection**

Your stove should be given a thorough, preventive inspection once every two years. This includes:

- · Thorough cleaning of the stove.
- Checking the spring in the HWAM<sup>®</sup> Autopilot<sup>™</sup>. Replace if necessary.
- · Checking gaskets. Replace gaskets if they are not intact or are no longer soft.
- · Checking and/or replacing insulation material.
- · Checking the combustion chamber base.
- Use copper grease for hinges and locking hooks (see drawing I).

All service checks must be performed by an authorised fitter. Use only original spare parts.

### Inside cleaning

Before chimney sweeping can be performed, the air control knob must be set to its minimum position to prevent soot and ash from entering the HWAM® Autopilot TM. Unless the safety fittings for transportation (2 split pins) have not already been removed, start by removing the split pins (drawing B, 7) Remove the

top smoke shelf and the two-part steel smoke guide plate from the stove before cleaning. (Drawing F).

- Lift the smoke shelf (1) out of the combustion chamber.
- Unhook each half of the smoke guide plate (2) from the hook (3) under the top plate.

After sweeping, reinstall the parts in the stove in reverse order.

#### **Ashes**

It is easiest to empty the ash pan by pulling a plastic bag over it, turning it upside down and then carefully removing it from the bag. Ashes are disposed of via the domestic waste collection.

Please note that there may be embers in the ashes for up to 24 hours after the fire has gone out!

#### Insulation

The efficient, but porous insulation of the combustion chamber may, in time, be worn and damaged. Cracks in the insulation are irrelevant to the efficiency of the stove. However, it should be replaced, if there are actual holes due to parts of the lining falling off or when, due to wear and tear, it has been reduced to less than half its original thickness.

## **HWAM®** Autopilot<sup>™</sup> (Drawing G)

Lift the top plate off the stove. Remove the rear plate by loosening the two screws. On a cold stove, the starting point of the feeler is controlled. The starting point for a cold stove is approx. 10° above horizontal (at laser cut mark).

It should feel easy going and bouncy when you push it, no matter if the stove is cold or hot. By rising or falling temperatures it must not move at a bound. The damper plates must be dry and clean and slide together unhindered. Control bars and slide gates may have to be smeared with WD40 (never oil).

# Door/glass

A sooty glass door can easily be cleaned with a piece of moist kitchen roll dipped in ash. Go about it in vertical movements (up and down). Follow up with a dry piece of kitchen roll.

#### Seals

Check frequently to ensure that seals in the door and ash pan are intact and not brittle. Failing this, they should be replaced. Use original seals only.

#### **Surface**

Usually, it is not necessary to any treatment to the painted surfaces of the wood-burning stove. Any damage to the paint may, however, be remedied with spray paint, which can be bought from your stove retailer.

#### Guarantee

The guarantee does not cover damage due to insufficient maintenance!

# **OPERATIONAL PROBLEMS**

#### **Blackened glass**

- •The wood is too damp. Only use wood stored for at least 12 months under cover and with a moisture level of 12-18% RH.
- The door gasket may be leaking.

## Smoke in the room when opening door

- The grate in the chimney may be closed. Open the grate.
- Insufficient chimney draft. See section on chimney or contact chimney sweep.
- · Soot door leaking or dislodged. Replace or refit.
- Never open the door when there are still flames on the wood.

#### Uncontrollable combustion

- Faulty seal in door. Fit new seal.
- If there is an excessive chimney draft, it may be necessary to close the air control knob. Close the air control knob when the stove is not in use.
- If the steel plates in the combustion chamber develop scales or become deformed, this is due to excessive heat. Stop using the stove and contact the retailer.

At interruptions that you cannot yourself rectify, you should contact the retailer.

# DECLARATION OF PERFORMANCE

The DoP can be downloaded from our website via the following links: www.hwam.com/dop/4600



# Product information on solid fuel local space heaters according to Comission regulation (EU) 2015/1185

Model	HWAM 4620, HWAM 4640, HWAM 4660	
Direct heat output [kW]	7,0	
Indirect heating functionality	No	
Indirect heat output [kW]	-	
Type of heat output/room temperature control	Two ore more manual stages, no temperature control	

Space heating performance at nominal heat output				
Fuel	Preferred fuel	Seasonal space heating energy efficiency [%]		
Wood logs with moisture content 12-18 %	Yes	70		
Emissions		mg/m³ (13% O <sub>2</sub> )		
Particulate matter (PM)		28		
Organic gaseous compounds (OGC)		82		
Carbon monoxide (CO)		1000		
Nitrogen dioxid (NO₂)		100		

Characteristics when operating with the prefered fuel only		
Nominal heat output [kW]	7,0	
Electric power consumption nominal heat output [kW]	-	
Electric power consumption minimum heat output [kW]	-	
Electric power consumption standby mode [kW]	-	
Useful efficiency at nominal heat output [%]	80	
Energy efficiency index	106	
Energy efficiency class	A	

## Specific Precautions during Assembling, Installing & Maintenance:

See installation instructions for more information

#### Product End-of-Life/Recycling:

To dispose of the stove after the product life has expired, please observe the following information

- Dispose of the items correctly i.e. separate the parts to be disposed of in material groups
- Always dispose of items in a way that is as sustainable as possible and that is in line with the current environmental protection, reprocessing/recycling and disposal technology

