

INTRODUCTION

SAFETY

Safety is the most important consideration when using and installing your stove. If not installed and used correctly, a house fire could result. Installation must comply with relevant national and local Building Regulations and fire safety standards.

IN THE EVENT OF CHIMNEY FIRE, EVACUATE THE PROPERTY AND CALL THE EMERGENCY SERVICES.

Your stove will be heavy and care needs to be taken when lifting - 2 people will normally be required to lift.

UNPACKING

Your stove will have several of its components stored inside the stove itself for transportation.

Do NOT drag the stove on its legs – it must be carefully lifted into place.

Inside the stove will also be an ash-pan which sits underneath the grate, and will require regular emptying. You will also find a detachable tool for removal of the ash-pan.

You will also find a glove which must be used when opening the door or when adjusting air vents when the fire is hot.

INSTALLATION

Installation of your stove must comply with relevant local and national Building Regulations and fire safety standards.

TECHNICAL

Model; "Saltfire ST 2"
Nominal heat output – 5 kW
Gross Weight of Stove (inclusive of packaging) - 50 kg.
Net Weight of Stove - 46 kg.
Max Height - 540 mm
Max Width - 400 mm
Max Depth - 350 mm
Flue Diameter - 125mm (5")

Mean flue gas temperature directly downstream of the flue spigot - 248 degrees C. (with closed doors).

Flue gas mass flow - 3.9g/s

Mean CO emission (at 13% Oxygen) - 0.20%

Net Energy Efficiency 81.3%

The stove must not be installed within the specified minimum distances to combustible materials: A gap of at least 450mm needs to left between the stove and any combustible materials at the sides and 500mm to the rear. Adjacent walls should be of non-combustible materials and construction, preferably masonry or brickwork.

Your stove will require a constant air supply, and should not be used at the same time and in the same room/space as extractor fans or any device which may draw air supply away from the stove.

The stove should be installed on a level floor with adequate load bearing capacity.

The stove needs to stand on a hearth of non-combustible materials not less than 12mm thick conforming to Building Regulations.

Your stove output is low enough that in older properties, dedicated external air supply does NOT have to be incorporated – HOWEVER, in very airtight houses (those with air permeability less than or equal to 5.0m3 /(h.m2)), a vent to from the

room to the outside of the house should be fitted to ensure a constant air supply for combustion. It should consist of a free area of at least 2750mm². The vent should be positioned such that it is not liable to blockage.

NOT suitable for installation in a shared flue system.

If installed in a standard type chimney, a register plate needs to be fitted inside the chimney.

When purchasing flue pipe, 5" diameter is required. The flue pipe must be fitted INSIDE the flue spigot, and sealed with a generous amount of Fire Cement.

Access should be provided for cleaning the flue gas connector and chimney flue to ensure that the passageways for exhaust gases remain free from obstruction.

Your stove is built with an integrated baffle plate inside which cannot be removed – for this reason, sweeping of the chimney needs to be done via an access door in the flue pipe so it is important that a flue pipe with access door is fitted at the installation stage – If there is not sufficient clearance above the stove for this, then there needs to be a suitable alternative access method incorporated at the time of installation.

We recommend that you have a qualified fitter install your stove. The British recognised standard for solid fuel installations is HETAS. You can find a HETAS qualified installer in your area by going to the HETAS website – www.hetas.co.uk.

OPERATING INSTRUCTIONS

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 "unauthorised 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).

The Secretary of State for Environment, Food and Rural Affairs has powers under the Act to authorise smokeless fuels or exempt appliances for use in smoke control areas in England. In Scotland and Wales this power rests with Ministers in the devolved administrations for those countries. Separate legislation, the Clean Air (Northern Ireland) Order 1981, applies in Northern Ireland. Therefore it is a requirement that fuels burnt or obtained for use in smoke control areas have been "authorised" in Regulations and that appliances used to burn solid fuel in those areas (other than "authorised" fuels) have been exempted by an Order made and signed by the Secretary of State or Minister in the devolved administrations.

The "Saltfire ST2" has been recommended as suitable for use in smoke control areas when burning seasoned wood.

Further information on the requirements of the Clean Air Act can be found here: http://smokecontrol.defra.gov.uk/ 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

FUEL

Wood- All types of wood are suitable provided they are wells seasoned, UNTREATED, and have a moisture level between 12% and 20%. For soft woods, typically they will need to have been left in suitable storage for 9+ months in order for the moisture to evaporate. For hardwoods, this will usually be 18 months+. It is recommended that logs should be no more than 5" or 125mm in diameter. Logs should be no more than 260mm in length. If you are unsure of the moisture content of your fuel, then you can buy a moisture meter which will indicate the moisture levels in your fuel.

WARNING: Wet timber should not be used as this will create excess tar deposits in the chimney and stove and could increase the risk of chimney fire. Timber which is not of a suitable moisture content will also create more smoke and harmful emissions.

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ractured smokeless coals and anthracite can be used and will all have different qualities and effects. – Do NOT use 5-Coke based fuels or any petroleum based fuels as this will invalidate the warranty. Do NOT use coal that is designed yNever use your stove as incinerator to burn waste or rubbish.

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AIR INLET CONTROLS

Your stove has three air inlet areas-

The upper vent controlled by sliding knob on top of stove provides air supply for the air-wash system and allow air into the higher areas of the fire box – this is called the Secondary air – when this vent is open, the door glass is kept clean by high speed air rushing downwards across the inside of the glass. By moving the Secondary vent knob to the right, airflow into the stove is increased.

At the bottom of the door tucked under the door you will find a second sliding knob – this is the control for the Primary air supply. The Primary air supply allows air in and under the grate area. Keeping this vent open on start up and when refuelling will allow the fire to get up to temperature quickly.

The third air inlet (Tertiary) is located underneath the door and controlled by a ring which pulls forward to open and pushes back to close. The air is then channelled through a chamber under the stove and to the rear of the firebox, and enters the firebox via a series of small holes in the throat plate.

TOOLS

The glove is provided for adjusting the air inlets and for opening the door when the stove is hot, as these knobs will heat up when in use.

NOTE - all parts of the stove will become hot during use and care needs to be taken to avoid injury through burning.

The tool handle provided is for removing the ash-pan.

LIGHTING THE FIRE

- Prior to lighting the fire for the first time, ensure that-
- Installation and building work is complete.
- The chimney is suitable and sound and has been swept and free from obstruction.
- Adequate ventilation and provision for combustion air has been made.
- That the stove installation has been carried out in accordance with Building Regulations and any applicable local regulations as well as these installation instructions.
- That chimney draw has been checked and within specification. (The stove has been tested at nominal output with a flue draught of 12 Pa)

ENSURE THAT YOU HAVE READ AND UNDERSTOOD THESE INSTRUCTIONS BEFORE LIGHTING THE FIRE, AND THAT YOU ARE CONFIDENT THE STOVE HAS BEEN INSTALLED CORRECTLY.

ALWAYS WEAR A PROTECTIVE GLOVE WHEN REFUELLING YOUR STOVE.

Ignition

- Ensure the ash-pan is in place.
- Ensure all air inlets are fully open
- Construct a pile of kindling in the middle of the grate using approximately 1kg of kindling wood
- Light with a single chemical firelighter
- Partially shut the door but leaving it cracked open slightly

- After about 5 minutes or when the fire is well established, shut the door
- After a further 3-5 minutes as the fire starts to die, add a further three larger pieces of wood weighing approx
- Once theses logs are alight, and after about 7 minutes or so, a normal load of 3 logs weighing approximately 1...
- Once this load is burning well, the Primary air vents can be closed, with the Secondary and Tertiary vents left open

Refuelling

- Open the Primary air vents
- Add up to 1.5kg of wood
- After about 2 minutes or when flames from the fresh fuel fully established, close the Primary vents
- At high power output, your stove will require refuelling approximately every hour.
- It is important to follow these instructions in order to achieve clean burning and to maximise the efficiency of the stove
- Do not leave the fire unattended until flames are well established an the newly charged logs
- Always refuel onto hot embers.
- If the fire has died out at the point of refuelling, use kindling to re-establish the fire and follow the "Ignition" procedure above.
- It is important that the stove is not overloaded with fuel.
- Reduced burn rates can be achieved by reducing the openings of the Secondary and Tertiary air vents.
- Operation with the door open can cause excessive smoke. The appliance must not be operated with the door left open
 except as directed in the instructions above.

IMPORTANT – For the first 20 hours burning only use gentle small controlled wood fires (NO COAL) – during which the first 3 x 1 hour fires must be small kindling wood fires only (this will temper the paintwork). After these small fires, gently increase fires over the course of a week or so. Starting a large fire too soon is likely to damage the stove in which case will not be covered by the warranty.

<u>IMPORTANT</u> – During the tempering-in period DO NOT TOUCH THE SURFACE OF THE STOVE – the paint will be relatively soft, and could easily be marked.

UK Clean Air Act 1993 - Smoke Control Areas

The Saltfire ST2 wood-burning stoves are suitable for use in smoke control areas when used in accordance with these instructions.

WARNING- The high temperature paint covering the stove will give off some fumes during the initial few uses of the stove. The fumes are non-toxic, but some people may find them unpleasant — Ensure the area is well ventilated during this period.

The output ratings of this stove are based on around 1.5kg of seasoned logs which would require refuelling every hour.

This stove is suitable for intermittent burning, and should not be used constantly for extended periods. Not suitable for overnight burning.

Under certain abnormal weather conditions, e.g. down draughts, it may be difficult to get sufficient draw through the appliance to achieve good combustion. When this happens, the stove should not be used.

CLEANING/MAINTENANCE

Regular cleaning of the stove is essential for safety and efficiency. The ash-pan should be emptied at least after every use, and during use if burning for longer periods.

When cold, the inside of the stove should be given a regular sweep out.

The flue and flue pipe will require cleaning with a suitable chimney brush, to minimise build up of soot and tar.

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the glass becomes stained from the inside, the air-wash vent may need opening more during use. The glass can be cleaned vith a cloth and chemical stove glass cleaner, or the glass cleaning pad made by Schott.

The high temperature paint which your stove is finished in should last many years with normal use, but when it does eventually require re-finishing, black heat resistant paint in spray cans can be purchased from most hardware stores. – Do not use regular paint which is not high temperature resistant.

After prolonged periods of not using the fire, the stove and flue system should be checked for blockages prior to re-lighting. We recommend regular servicing and safety checks are carried out by a qualified engineer.

There must be no unauthorised modification of the appliance. Use only replacement parts recommended by the manufacturer.

GUARANTEE

The main body of your stove is guaranteed for 12 months. This does not include glass, grates, door seals, fire-bricks, over-firing incorrect use or installation not carried out by a competent person or in accordance with building regulations. – You should have zero problems with your stove unless it is abused and if treated well your stove will last and last.

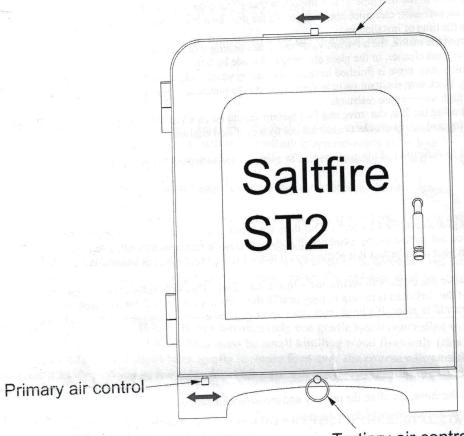
Note: the firebricks inside the stove can crack with normal use – this is not a fault. This will be the case with most makes and models of stove. The purpose of the firebricks is to help to keep heat in the firebox – cracks will not adversely affect this function as long as the bricks are still in place. If a large crack does develop it can easily be repaired with a small amount of fire cement.

What to do in the event of a chimney fire:-

- cut off the air supply to the stove, i.e. close the primary and secondary air supplies
- · move any combustible materials well-away from the stove
- get everyone out safely
- make sure that the fire brigade has clear access
- call 999

If you have any questions or concerns regarding the safe use of your stove, please contact us.

Secondary (Airwash) control



Tertiary air control

hanover builder wood burner sales, installation & fireplace repairs 01273 697288 | 07944 289 849 www.hanoverbuilder.co.uk