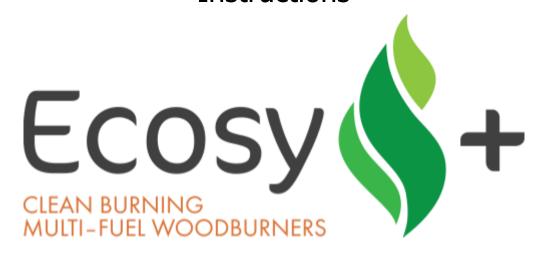
Installation and Operating Instructions



Wood-burning Stove

Model: Ottawa 7kw

INTRODUCTION

Wood-burning Stove Item No.: Ottawa 7kw

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 A 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. Take the legs out "cast iron stove only" and attach them one at a time to the underside of the stove – it may help to sit the stove on some sturdy blocks of wood or bricks whilst you do this. Do NOT use a wrench to tighten any bolts, they should be hand tight

only – cast iron is relatively brittle and can crack if over-tightened.

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

The flue spigot can also be bolted to the flue outlet – the stove has two options for flue outlet – one on the top and one at the rear. - Most people use the top outlet – in this case, remove the blanking plate at the top and secure to the rear outlet instead, but depending on where you intend to position the stove in relation to your chimney, you may wish to use the rear outlet. 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.

Baffle Plate

The baffle plate sits above the rear cast iron fire brick and comes to rest just above the top air flow control. The end of the plate with rectangle holes cut in the end sits towards the front of the unit.

INSTALLATION

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

TECHNICAL

Ottawa 5 kW - Performance Test Results.

All efficiencies in table are Net values

Wood Results, 1 hour refuels

Parameter Mean
Test Duration h 1.05
Total Efficiency 80.2 %
Nominal heat output kW 7

Mean CO emission (at 13 % O2) 0.35% Mean flue gas temperature °C 278

Flue gas mass flowg/s 3.3

Mean CnHm (at 13 % O2) 314 Mean NOx (at 13 % O2) 66 DIN Plus dust (at 13 % O2)s 13.3

Manufacturer's declarations Refuelling period 1 hour Nominal output 7 kW

Temperature Safety Test

Distances to combustibles: Back Wall 700 mm Side Wall 600 mm

Max Hearth Temperatures

Nominal output 61°C

Temperature safety 77°C

90kg

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.

Normally for most houses in the UK no extra ventilation is required when installing a stove rated at 5kW or less.

Note: The requirements regarding ventilation have been updated in the most recent version of the Building

Regulations and are now based on the air permeability of the house.

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 to ensure that the passageways for exhaust gases remain free from obstruction. 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

Regulations

All national and local regulations, including those referring to national and European standards, need to be complied with when installing the stove.

FUEL

Wood- All types of wood are suitable provided they are well 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. 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. Liquid fuels must NEVER be used.

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, and will damage the stove and flue system.

AIR INLET CONTROLS

Your stove has three air inlet areas. The upper vent provides air supply for the air-wash system and allows 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. The secondary air vent is set such that the closure plate does not seal fully, thus allowing some constant air supply into the stove.

The lower vent knob on the bottom of the door controls the provision of Primary air – this is the primary source of air supply for combustion. Sliding the knob to the right increases the amount of Primary airflow into the stove. The third (Tertiary) vent control is located underneath the stove and controlled by a lever/ knob tucked under the

bottom shelf. Moving the lever towards you increases the airflow into the stove. The air is then channelled through a

chamber on the rear of the stove and to the rear of the firebox, and enters the firebox via a series of small holes in the throat plate. The closure plate mechanism on the rear of the stove incorporates a 'stop-bolt' – a physical stop to ensure the Tertiary air inlet vent cannot be fully closed. This is required to ensure the stove maintains a level of combustion not likely to create excessive smoke.

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. The tool handle provided is for removing the ash-pan. NOTE – all parts of the stove will become hot during use and care needs to be taken to avoid injury through burning.

LIGHTING THE FIRE AND RE-FUELING

- · 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) INITIAL CURING AND TEMPERING FIRES ESSENTIAL INSTRUCTIONS BEFORE USE It is essential to follow these 'tempering-in' instructions in order to avoid serious damage to your stove. The castings of your stove require very gentle 'normalising' to release stresses in the metal formed during the casting process. The paint finish also requires an initial curing process to be followed: -

For the initial tempering/ curing period, ensure the tertiary air inlet is set to MINIMUM, by sliding the lever to the 'Minus' position. Set the Primary air to half position and secondary air to half position. For the first 2 burns on day one just use small controlled kindling wood fires with each fire lasting around 40 minutes – the second fire can be started when the stove is almost cooled down after the first. A third slightly hotter medium type fire should then be lit using smallish logs and lasting around 1 hour. Then for the next week or around 15-20 hours total burn time, fires must be gently increased in temperature and log size and load and NO COAL must be used during this period. A stove thermometer will be a valuable tool in helping you to achieve this safely and also to ensure an efficient burn rate in future. Starting a large fire too soon is likely to damage the stove in which case it will not be covered by the warranty. Note: the paint on any new stove is relatively soft. As such do not clean, wash or wipe the surface until the paint has fully cured. Never wipe the stove whilst warm. If the above advice is ignored then there is a high risk of the paint being "shocked" by excessive heat and could peel. Furthermore, if the stove is over fired it will invalidate your guarantee. 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 (FOLLOW INITITAL TEMPERING INSTRUCTIONS ABOVE FIRST TO AVOID DAMAGE)

- Ensure the ash-pan is in place. Ensure all air inlets are fully open (tertiary air should be closed for first 3 burns)
- Construct a pile of kindling in the middle of the grate using approx 500g 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. 0.75kg in total.
- Once theses logs are alight, and after about 7 minutes or so, a normal load of 3 logs weighing up to 1.4kgs in total can be added (ONLY AFTER THE INITIAL TEMPERING PERIOD HAS BEEN FOLLOWED SEE ABOVE)
- Once this load is burning well, the Primary air vents can be closed, with the Secondary and Tertiary vents left open.

First use troubleshooting.

When the stove is new the paint is very tacky where the stove is curing. The door locks very tight and when opened can pull away the fire rope from its chamber. If the instructions are followed above this should not happen. However if it does the rope will need to be stuck back in place with "heat resistant fire rope glue" After a few burns the paint will be cured and this should no longer happen.

Refuelling

When re-fuelling the stove it was necessary to fully open both the primary and secondary air controls for a period of 3 minutes to establish the fire before closing down to the minimum output setting.

- 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 on 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.
- Refuelling on to a low fire bed If there is insufficient burning material in the firebed to light a new fuel

charge, excessive smoke emission can occur. Refuelling must be carried out onto a sufficient quantity of

glowing embers and ash that the new fuel charge will ignite in a reasonable period. If there are too few embers in the fire bed, add suitable kindling to prevent excessive smoke.

Fuel overloading - The maximum amount of fuel specified in this manual should not be exceeded, overloading can cause excess smoke.

Operation with door left open – Operation with the door open can cause excess smoke. The appliance must not be operated with the door left open except as directed in the 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 higher power output rating of this stove is based on around 1.4kg of seasoned logs which would require refuelling every hour.

IMPORTANT: -

As of October 2010, it is a legal requirement to use a Carbon Monoxide Detector in the same room as the stove. This needs to incorporate a battery which lasts the life of the detector.

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. Your chimney will also require periodic sweeping.

If the glass becomes stained from the inside, the air-wash vent may need opening more during use. 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 relighting. 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.

MODELS WITH MIRROR GLASS: THIS GLASS HAS A SPECIAL COATING, DO NOT USE ANY ABRASIVE MATERIAL TO CLEAN THE GLASS. Just use a clean cloth with warm water when the stove is cold. If fire bricks have just split they do not need replacing. The bricks only need replacing when they have fully crumbled away exposing the stoves rear or sides.

GUARANTEE

The main body of your stove is guaranteed for 5 Years. This does not include glass, grates, door seals, over-firing, and paint.

Incorrect use or installation not carried out by a registered HETAS installer will void the guarantee. Please keep hold of the invoice as this will be requested if a claim started. The guarantee will begin from the sale date on the invoice.

Ecosy+, Unit 24 - Folly farm, Ramsdell, Tadley, Rg265rj