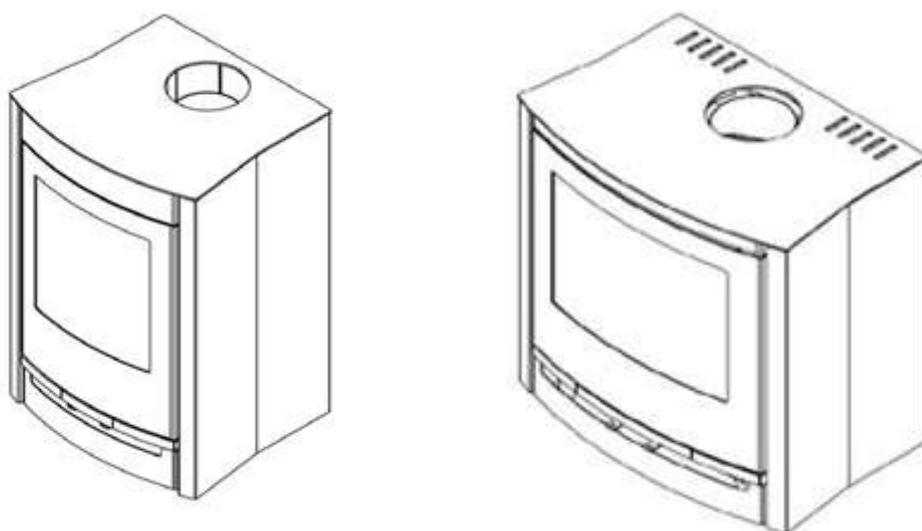


Installation & Operating Instructions



Covering Models:

Hotspur 5

Hotspur 9

Wood Burning Stoves

(Optional Coal Kit Available)



Tested to EN 13240



These appliances must be installed and commissioned by a HETAS registered engineer

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Introduction

May we take this opportunity to thank you for choosing one of our stoves.

These appliances are designed to burn wood logs and wood derived fuels. It is essential that your wood has been seasoned to ensure that it is sufficiently dry for burning. You can determine the moisture content of your logs by using a digital moisture meter, your logs need to be below 20% moisture content before they are considered dry enough for burning. Please note an optional kit is available which will enable you to burn certain coals, this kit consists of a pair of refractory bricks (these bricks must be present in the firebox at all times when burning coal).

Never burn wood that contains paint, glue or any other chemicals

See the section "Lighting the Stove" for further details. After reading this document, if there is anything you are unsure about, please contact your dealer or our Technical Support Department.

These instructions cover the basic principles to ensure the satisfactory installation of the stove, although detail may need slight modification to suit particular local site conditions. In all cases the installation must comply with current Building Regulations, Local Authority Byelaws and other specifications or regulations as they affect the installation of the stove.

It should be noted that the Building Regulations requirements may be met by adopting the relevant recommendations given in British Standards BS 8303 and BS EN 15287-1 2007 + A1 2010 as an alternative means to achieve an equivalent level of performance to that obtained following the guidance given in Approved Document J.

Please note that it is a requirement under the Broseley Fires warranty system that the installation of the stove is carried out by a Competent Person registered with a Government approved Competent Persons Scheme. HETAS Ltd operate such a Scheme and a listing of their Registered Competent Persons can be found on their website at www.hetas.co.uk.

Packing List

1x Steel Body stove	2x Vermiculite side firebricks (Left & Right)
1x Log retainer	2x Vermiculite rear firebrick (Lower & Upper)
1x Vermiculite Bottom Rear	2x Vermiculite Base Side (Left & Right)
1x Instruction booklet	2x Baffle (Main - Vermiculite & Top - Steel)
1x Heat Proof Glove	1x Cast Iron Grate
1x Top Outlet Spigot (Fitted)	1x Steel Ash pan
1x Air Intake Stub (Fitted)	1x Top Lid Blanking Plate (For rear outlet only – Hotspur 5)

All parts will be inside the main stove body upon delivery. The spigot will generally be bolted to the top of the stove body.

Optional Extras (With product codes)

S-HOTSPUR5/COAL & S-HOTSPUR9/COAL	- Coal Kit for 5 & 9 kW Stoves
S-HOTSPUR5/RF	- Rear flue outlet (Hotspur 5 Only)
S-DEAS/KIT/100 (Various Colours See page 10)	- Direct External Air Supply (DEAS)

Health & Safety

Special care must be taken when installing the stove such that the requirements of the Health and Safety at Work Act are met.

Installation

This appliance **MUST** be installed and commissioned by a HETAS registered installer in England and Wales and a fully qualified Heating Engineer in Scotland and Ireland.

Handling

Adequate facilities must be available for loading, unloading and site handling.

Fire Cement

Some types of fire cement are caustic and should not be allowed to come into contact with the skin. In case of contact, wash immediately with plenty of water.

Asbestos

This stove contains no asbestos. If there is a possibility of disturbing any asbestos in the course of installation then please seek specialist guidance and use appropriate protective equipment.

Metal Parts

When installing or servicing this stove care should be taken to avoid the possibility of personal injury.

CO Alarms

Building regulations require that whenever a new or replacement fixed solid fuel or wood/biomass appliance is installed in a dwelling an audible carbon monoxide alarm must be fitted in the same room as the appliance. Further guidance on the installation of the carbon monoxide alarm is available in BS EN 50292:2002 and from the alarm manufacturer's instructions. Provision of an alarm must not be considered a substitute for either installing the appliance correctly or ensuring regular servicing and maintenance of the appliance and chimney system.

Fire Guards

When using the stove in situations where children, aged and/or infirm persons are present a fireguard must be used to prevent accidental contact with the stove. The fireguard should be manufactured in accordance with BS 8423:2002.

Aerosol Sprays

Do not use an aerosol spray on or near the stove when it is alight.

Operating Tool & Gloves

Always use the glove provided when handling parts likely to be hot when the stove is in use. The handle and air controls will not get overly hot however it is still recommended that the glove is used when operating these also. A poker or tool can be purchased separately and does not come as standard with the stove.

Specifications

In the UK these stoves have been approved by HETAS Ltd as intermittent heating appliances for burning coal suitable for a closed appliance and wood logs only.

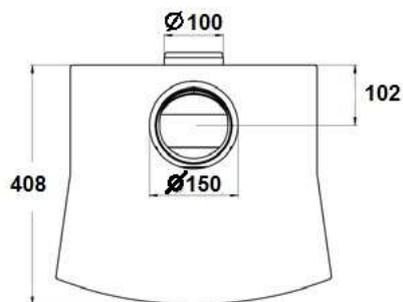
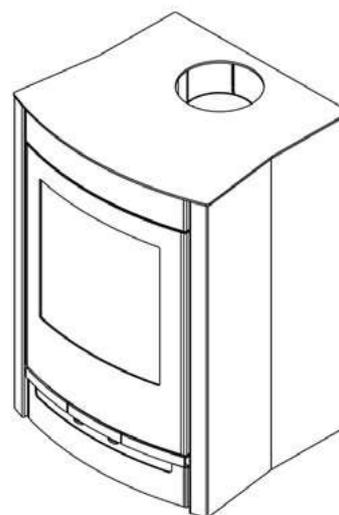
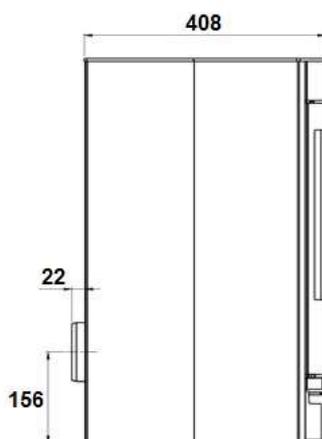
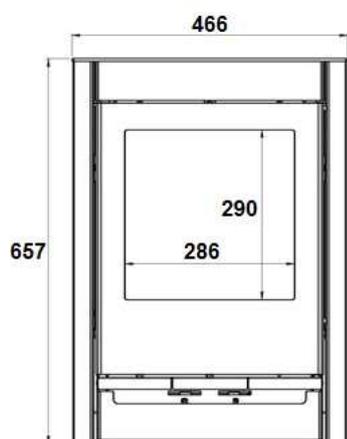
	Hotspur 5	Hotspur 9
Nominal Heat Output (Wood) kW	5	9
Nominal Heat Output (Coal) kW	5	7
Efficiency (Wood) %	82	80
Efficiency (Coal) %	81 (Anthracite)	75 (Lignite)
Weight Kg	127	152
Flue Diameter mm	125	150
Flue Diameter Inches	5	6
Flue Draft Min Pa	12	12
Flue Draft Max Pa	18	18
Flue Temp (Wood) °C	253	298
Flue Temp (Coal) °C	205	328
CO Emission (@ 13% O ² Wood) %	0.08	0.09
CO Emission (@ 13% O ² Coal) %	0.40	0.09
Flue Mass Flow (Wood) g/s	4.3	7.0
	4.2	6.6
Flue Mass Flow (Coal) g/s		
Fuel Consumption Per Hour (Wood)	1.10Kg	2Kg
Fuel Consumption Per Hour (Coal)	0.75Kg	1.2Kg

Please note the figures above are taken from test house reports where the appliances have been tested under strict EN13240 regulations.

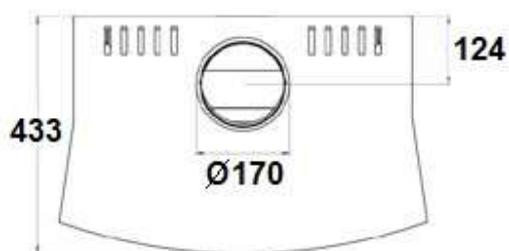
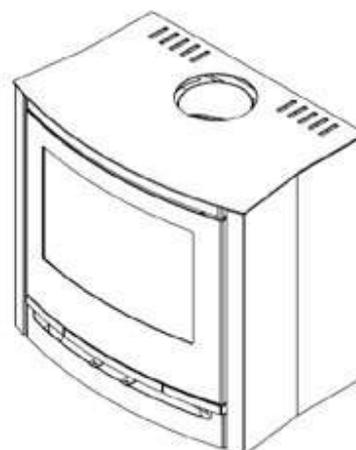
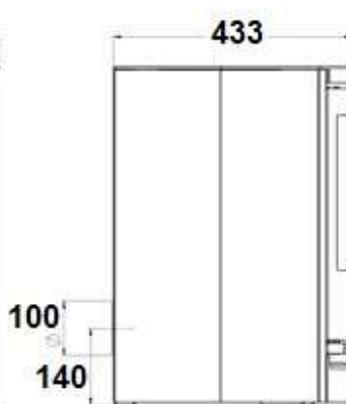
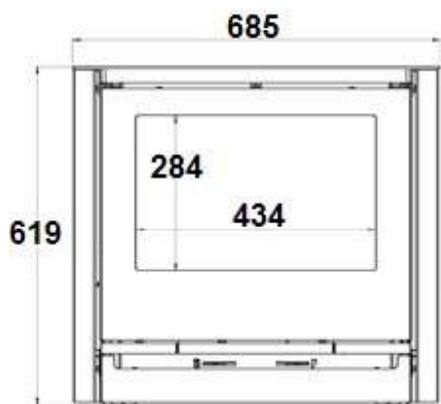
European standards need to be complied to when installing this appliance.

Dimensions

Hotspur 5



Hotspur 9



Hearth Requirements & Clearances

These appliances are suitable for the minimal 12mm hearth's and do not require a full constructional sub-hearth.

Your stove must be installed on a solid, level non-combustible hearth. The hearth protrusion in front of the stove to carpets or wooden floors must be at least 300mm. As it is possible, that on opening the door of the stove for fuel to fall out, a fender must be fitted if the hearth is flush with the carpet.

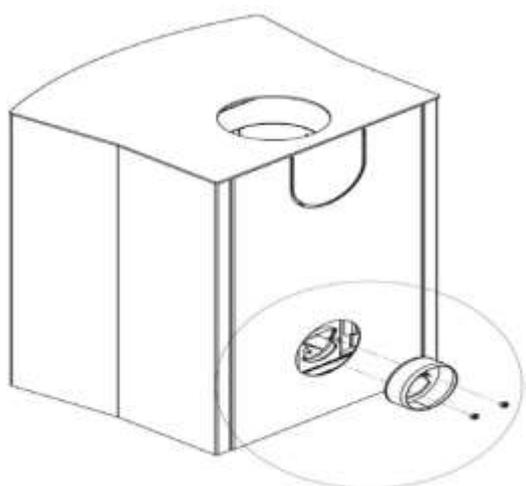
Clearances

The stove requires the following minimum clearances around it to ensure the heat is released into the room and to allow sufficient combustion air flow.

Product	Material	Rear	Side	Front	Above
Hotspur 5	Combustible	270mm	250mm	800mm	800mm
	Non-combustible	50mm	100mm	300mm	100mm
Hotspur 9	Combustible	170mm	250mm	1200mm	1200mm
	Non-combustible	50mm	100mm	300mm	100mm

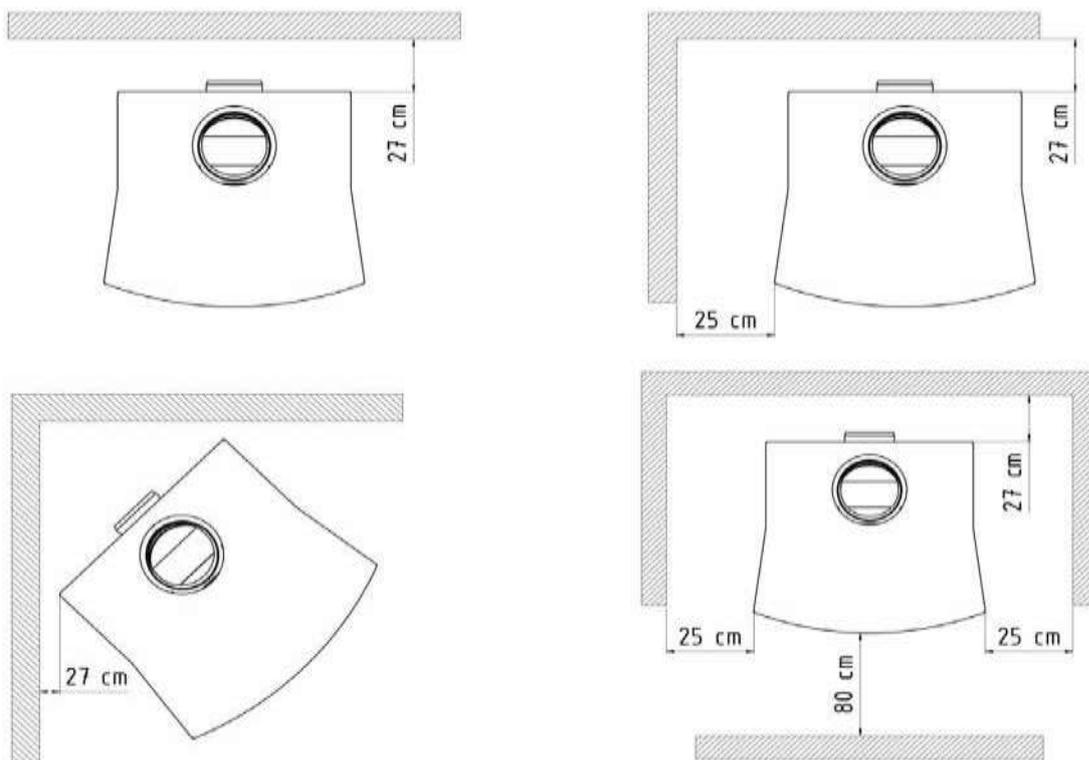
Please note that for non-combustible materials the clearances are much lower. These are minimum clearances and may not provide sufficient space in your installation to provide adequate access for maintenance. Ideally you want as much space around the product as possible to provide access at service intervals.

If fitting the stove in a non-combustible surrounding and using the 50mm rear clearance it is very important to ensure the material used can withstand the heat being generated. Cracking or discolouring may occur to some materials like tiles etc. It is also recommended that if the stove is fitted with a rear clearance of 50mm, without DEAS (Direct External Air Supply) fitted that the DEAS spigot on the back of the stove is removed to aid air flow into the product.

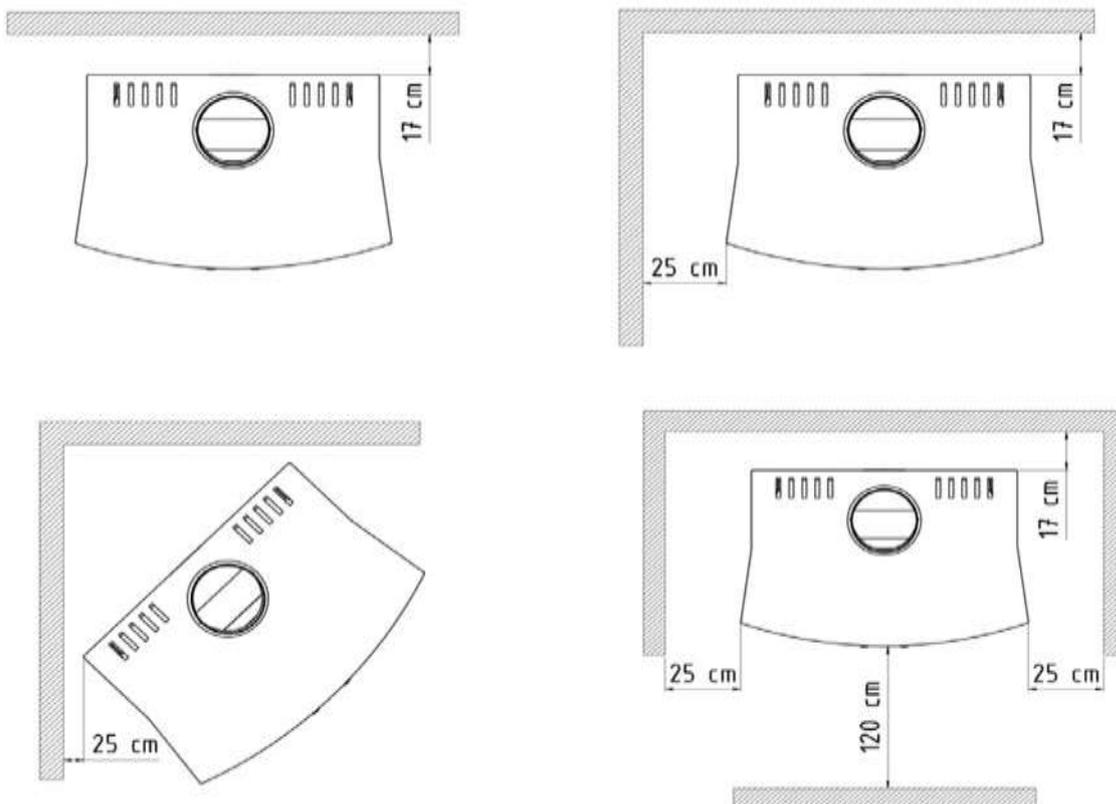


Hearth Requirements & Clearances

Installation options when fitting Hotspur 5 to Combustibles



Installation options when fitting Hotspur 9 to Combustibles



Chimney Requirements

This appliance must not be fitted into a chimney serving another heating appliance. It is most important that there is no obstruction in the flue or chimney. Please ensure that any existing chimney is clear of obstruction and swept clean immediately before installation of the new stove. If the chimney has been used for an open fire it is recommended that it be swept for a second time having been used for a month following installation.

A flue draught minimum of 12 Pascals to a maximum 18 Pascals is required for satisfactory appliance performance. A properly built masonry or factory constructed chimney (with a minimum vertical height of 5 metres) should ensure a consistent draught (draw). 45° bends can be used in the flue run (maximum of four bends) you will need to add an extra 1 metre of vertical flue height for each bend.

The flue draught should be checked under fire at high output and if it exceeds the recommended maximum, a draught stabiliser must be fitted so that the rate of burning can be controlled, and to prevent over firing (See section “Warning Notes”). If you have any doubts about the suitability of your chimney, consult your local dealer/stockist or engineer. If your flue draft is below the minimum recommendation then it may be necessary to increase the vertical chimney height, add additional flue insulation or possibly add a special cowl to the top of the chimney (e.g. anti down draft cowl to eliminate wind induced down draft).

The outlet from the chimney should be above the roof of the building in accordance with the provisions of Building Regulations Approved Document J.

If installation is into an existing chimney then it must be sound and have no cracks or other faults which might allow fumes into the house. Older properties, especially, may have chimney faults or the cross section may be too large i.e. more than 230 mm x 230 mm. Remedial action should be taken, if required, seeking expert advice, if necessary. If it is found necessary to line the chimney then a flue liner suitable for solid fuel must be used in accordance with Building Regulations Approved Document J.

If there is no existing chimney then either a prefabricated block chimney in accordance with Building Regulations Approved Document J or a twin walled insulated stainless steel flue to BS 4543 can be used. These chimneys must be fitted in accordance with the manufacturer’s instructions and Building Regulations.

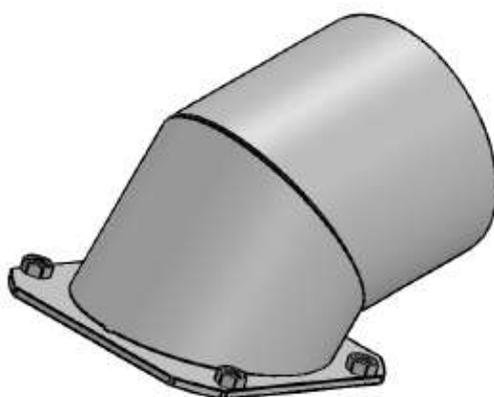
If a flexible liner is required the liner diameter must not be less than 5” / 125mm for the HOTSPUR 5 and 6” / 150mm for the Hotspur 9.

Any bend in the chimney or connecting fluepipe should not exceed 45°. 90° bends are not permitted. For top flue installations it is possible to sweep through the appliance by removing the internal baffles however it is recommended that you provide adequate access (e.g. easily accessible soot door). For rear flue connection we recommend the use of a tee section, the bottom of the tee should be capped to catch soot and debris.

Chimney Requirements

Rear Flue Installations – Using optional rear flue spigot (HOTSPUR 5 ONLY)

If fitting the appliance with a rear flue outlet, the top spigot will need to be replaced with the optional rear spigot (not supplied as standard). The optional rear spigot replaces the top spigot and allows for a rear flue. It is recommended that only a 90 degree T flue section is used directly out of the rear flue spigot. Access for cleaning the flue should also be made available in the connecting vertical flue. The code for ordering the rear flue spigot is S-HOTSPUR5/RF for Hotspur5



To fit the rear flue spigot you will first need to lift off the lid of the stove and then remove the original top spigot. The sequence below will guide you through this process:

Step 1.

Remove the vermiculite baffle

Step 2.

Remove the square secondary metal baffle that is adjacent the fitted spigot.

Step 3.

Loosen the 4 x Allen key bolts holding the spigot in place.

Step 4.

Fit the new rear outlet spigot and follow current sequence in reverse.



Note: The lid can be removed for easy viewing and spigot change over. Once the lid is placed back on the stove, use blanking plate supplied to cover the hole left in the lid for the top outlet spigot.

Ventilation Requirements

In order for the stove to perform efficiently and safely there should be an adequate air supply into the room in which the stove is installed to provide combustion air. This is particularly necessary in modern houses where drafts have been almost eliminated by double glazing etc.

Under UK building regulations any appliance over 5kW MUST have a fixed permanent air vent (see building regulations approved document J for detailed information). The following information is offered as a basic summary of the information found in Building Regulations. This information should NOT be used as a substitute to following the full requirements laid out in Building Regulations approved Document J.

Air Vent Calculation Hotspur 5

For new build properties you will need $5 \times 550\text{mm}^2 = 2750\text{mm}^2$

Older properties do not normally need a vent.

Air Vent Calculation Hotspur 9

For new build properties you will need $9 \times 550\text{mm}^2 = 4950\text{mm}^2$

Older properties you will need $4 \times 550\text{mm}^2 = 2200\text{mm}^2$

There must not be an extractor fan fitted in the same room as the stove as this can cause the stove to emit fumes into the room. It is necessary to install a wall vent to provide the necessary combustion air and to prevent the depletion of oxygen in the room.

Direct External Air Supply (DEAS)

The optional Direct External Air Supply eliminates drafts caused by traditional wall vents. The DEAS will provide 100% of the operational combustion air.

The appliance has been designed and tested for safe when using a Broseley Fires supplied DEAS Kit. It is therefore required that only the Broseley Fires DEAS Kit is used when an external air supply is required.

When fitting the DEAS Kit the following comprehensive installation instructions must be followed. It is important for the installing engineer to read these installation instructions before commencing works on a DEAS installation and ensure the instructions for the DEAS kit are understood as clear and concise.

Ventilation Requirements

Only install a dedicated external air kit supplied or specified by Broseley Fires, and which is installed in a way that meets all required provisions of the manufacturer's instructions, local Building Regulations requirements and appropriate standards. The details and minimum specification below must be followed at all times. Broseley Fires stocks the Direct External Air Supply Kit that suits this product. It can be purchased directly. Its specific code when ordering is

O-DEAS/KIT/100/WHITE	-	White coloured outside ventilator
O-DEAS/KIT/100/TERRA	-	Terracotta coloured outside ventilator
O-DEAS/KIT/100/SAND	-	Buff/Sand coloured outside ventilator
O-DEAS/KIT/100/BROWN	-	Brown coloured outside ventilator
O-DEAS/KIT/100/BLACK	-	Black coloured outside ventilator

The kit contains the following:

- 1 x 6x6' Louvre Ventilator – available in White, Terracotta, Buff/Sand, Brown & Black
- 1 x 6x6' Louvre Back plate with 97mm Diameter Spigot
- 1 x 1.5m of Semi Rigid Aluminium Duct - 102mm (4 inches) Diameter
- 2 x 100mm Diameter Jubilee Clips

- The minimum diameter of duct is 102mm (4 Inches)
- The maximum total length of the duct is 1.5m

Assessment of the Property

Before any installation is carried out using a DEAS Kit the property must be fully assessed to ensure there is enough ventilation (air-flow) available for combustion during use and when the door is open for refuel. The following table gives advice on the properties construction which can have an effect on its air permeability attributes. The recommendations in this table should be used as a guide at all times.

Age of Property	Refurbished	Type of Ventilation	Recommendation
Post 2008(Class 1)	NO	Significantly reduced energy demand due to air tightness of the building. Typically double/triple glazed windows with high levels of roof and cavity insulation. Passive ventilation through trickle vents and mechanical extracts in kitchens/bathrooms.	Firstly follow building regs recommendation on Air Permeability of the building. Special attention needs to be made to any extractor in the same room as the appliance eg: open plan kitchen diner etc. DEAS Kit can be used however a risk assessment and commission testing needs to be carried out in accordance with HETAS Technical Note HETAS_TN_0020 v1.0. Extra ventilation may be required.
Post 2008(Class 1) House fitted with Mechanical heat Ventilation Recovery System in same room as appliance	NO	Significantly reduced energy demand due to air tightness of the building. Typically double/triple glazed windows with high levels of roof and cavity insulation. Passive ventilation through trickle vents and mechanical extracts in kitchens/bathrooms. Special attention to mechanical heat ventilation recovery systems is required in this type of property construction.	Do Not Fit DEAS Kit
Between 1975-2008 (Class 2)	YES	Reduction to the original energy demand due to improvements in properties air leakage. Typical additions include double glazing, cavity wall and loft insulation and draught proofing of windows/doors. Typically passive ventilation through trickle vents and mechanical extracts in kitchens/bathrooms. Special attention to mechanical heat ventilation recovery systems is required in this type of property construction	Special attention needs to be made to any extractor in the same room as the appliance eg: open plan kitchen diner etc. DEAS Kit can be used however a risk assessment and commission testing needs to be carried out in accordance with HETAS Technical Note HETAS_TN_0020 v1.0. Extra ventilation may be required. If the property has mechanical heat recovery Do Not Fit the DEAS.
Between 1975-2008 (Class 3)	NO	A large proportion of properties fall into this category and the energy requirement of these dwellings become greater due to higher heat loss rates through the building fabric. They normally have basic passive ventilation with supplementary mechanical ventilation incorporated. As the age of the property increases, the amounts of insulation incorporated decreases, leading to higher leakage rates.	DEAS Kit can be used however a risk assessment and commission testing needs to be carried out in accordance with HETAS Technical Note HETAS_TN_0020 v1.0. Extra ventilation may be required.
Pre-1975 (Class 4)	YES	Old style housing with moderate/significant improvements in the form of double glazing, inclusion of cavity wall and loft insulation. Addition of mechanical ventilation in the form of extract fans in kitchens/bathrooms. Additional improvements reduce the properties overall energy requirement.	Special attention needs to be made to any extractor in the same room as the appliance eg: open plan kitchen diner etc. DEAS Kit can be used however a risk assessment and commission testing needs to be carried out in accordance with HETAS Technical Note HETAS_TN_0020 v1.0. Extra ventilation may be required.
Pre-1975 (Class 4)	NO	Old style housing with single glazing with a high energy requirement due to increased leakage through the building structure. Typically basic passive ventilation through vents in the wall/floor and by opening of windows with no insulation or additional draught proofing measures incorporated.	DEAS Kit can be used. Commission testing needs to be carried out in accordance with HETAS Technical Note HETAS_TN_0020 v1.0.

Ventilation Requirements

To carry out a risk assessment it will be necessary to grade the risks associated with the property, including construction of property and ventilation. HETAS have designed a risk assessment template that should accompany the table above and be completed at all times.

It is not recommended that the fitting of the DEAS KIT is made into passive houses with mechanical ventilation systems or extractors of any kind. In order for the stove to perform efficiently and safely there should be an adequate air supply into the room in which the stove is installed to provide combustion air. This is particularly necessary in modern houses where drafts have been almost eliminated by double glazing etc. Fitting the appliance into such properties requires

- No possible means of air being taken from the room of the appliance eg:
Mechanical ventilation systems
- Measures should be taken to ensure the air duct inlet does not become blocked from snow, debris, and water ingress and not prone to collapse due to heat or other effects.
- The appliance fitted is to undergo stringent commissioning testing as set out in HETAS Technical Note HETAS_TN_0020 v1.0 and detailed starting page 13.

Ventilation Requirements

Fitting the DEAS KIT

Once suitable risk assessments have been performed the DEAS can be fitted to the stove. Only Broseley Fires supplied kits should be used.

Step 1.

Using appropriate construction methods (for the building material of your property) mark and cut a 4 Inch/100mm diameter hole into the external wall. Feed the semi rigid ducting through the hole as pictured (right).



Step 2.

Feed 1 x Jubilee Clip over the opposite end of the duct pipe just fitted through the external wall. Attach the pipe to the DEAS spigot already assembled on the stove. Tighten the jubilee clip so the duct pipe is secure and sealed. When the connection is made manoeuvre the stove into position ensuring the duct is as straight as possible and not containing any more than 2 bends.



Ventilation Requirements

Fitting the DEAS KIT

Step 3.

Cut away any excess ducting. Feed the second Jubilee clip over the duct pipe (on the external facing end). Attach the back plate to the duct pipe and tighten to form a tight seal. Ensure jubilee clip is tightened in a position whereas it can be inserted into the hole in the wall cavity leaving the back panel flush with the outer wall. Ensure unwanted bends are not made in the duct pipe connecting the stove to the back plate.



Step 4.

Fix the back plate to the outside wall. Screws and plugs to the external wall are not included. It is the fitter's discretion in choosing screws and fixings suitable for the external surface. The back plate should sit flush against the external wall.



Ventilation Requirements

Fitting the DEAS KIT

Step 5.

Finally screw the grille ventilator to the back plate using the 4 x screws supplied. As mentioned previously it is important to ensure the air duct ventilator does not become blocked from snow or debris and to prevent water and vermin ingress.



Ventilation Requirements

Commissioning Testing

Once a suitable flue draught has been established, and to ensure that during start-up operation and refuel that spillage does not occur, it is advised to carry out the following 3 step spillage test procedures and record the results using the On Site Verification of HETAS Spillage Test Procedure Form.

Before commencing the commissioning process, it is important for the installer to ensure the following have been met;

- The installer has read and understood HETAS Technical Note HETAS_TN_0020 v1.0 and has taken account of the guidance contained within the appliance manufacturer's installation instructions.
- A relevant risk assessment of the property and appliance has been carried out
- The chimney, hearth and appliance is installed in accordance with the requirements of ADJ and their suitability/soundness has been verified as compliant
- The air supply duct has been installed in accordance with the specification detailed by the appliance manufacturer and within manufacturer instructions
- A CO alarm has been fitted

Step 1 – Cold Spillage Test – Appliance Door Shut.

1. Close all external doors and windows, internal doors to the room the appliance is located in and ensure all openable ventilators are closed and any devices that extract air from the dwelling are off.
2. Preheat the flue by lighting a small fire using kindling, a blow lamp or electric heater.
3. Light a small smoke pellet (5m³/30 sec), place into the appliance and shut the appliance door. All air-controls should be set to their maximum open position.
4. Check that all of the smoke enters the flue and none comes back into the room through any part of the stove, connecting flue pipe or air supply duct.

Note: If visible smoke enters the room then repeat the flue preheat detailed in point 2 above, to generate additional flue draw. If the test still fails, progressively open a window in the room the appliance is installed. If the flue starts to draw the smoke, this will indicate a fault due to air starvation and the appliance is not being provided with adequate air for the flue to function correctly. Note the additional area of ventilation required and add permanently open ventilation into the room by that amount to correct the problem.

Ventilation Requirements

5. If applicable, correct any highlighted issues and re-test using steps 1-4 above. If smoke continues to spill after opening a window, this indicates a more serious problem (i.e. flue blockage) which must be addressed and then this commissioning process repeated.

Step 2 - Extraction Test (Using a flue draught gauge)

A flue pressure testing device shall be fitted to the flue of the appliance.

1. Ensure all doors to the room and all external doors, windows and air vents designed to be closable are closed, and all ventilation fans are switched off.
2. Light the appliance and allow for the optimum operating temperature to be reached
3. The flue draught reading should be recorded and checked that it is in the parameters specified by the appliance manufacturer.
4. Open any internal doors interconnecting the room in which the appliance is installed to rooms where extraction fans are present within the property
5. Turn on all extract fans within the property to the maximum speed setting allowed
6. Run the extract systems for ten minutes, and then, record the flue draught reading. The reading should not be lower than the previous reading obtained with extracts running and not fall below the parameters specified by the appliance manufacturer.
7. Once the tests confirm satisfactory operation, remove the test device and seal any apertures in the flue way if required.

Note: If at any stage during commissioning the flue draught reading taken differs from the draught parameters specified by the manufacturer, action should be taken to locate the cause of the discrepancy and the installation rectified before proceeding with further testing.

The extraction test is a means to verify that the manufacturer's required flue draught during operation is met under the relevant conditions. In some cases spillage can still occur and so it is important to carry out the prescribed smoke spillage tests detailed

Step 3 – Hot Spillage Test - Refuelling

Now that initial chimney draw has been verified as adequate, light a fire in the appliance using the recommended amount of kindling/small logs and manufacturer's recommended air control position and allow the appliance to reach its normal operating temperature. At the end of the banking period and before refuelling;

Ventilation Requirements

1. Close all external doors and windows, ensure all openable ventilators are closed.
2. Open the appliance door and with a smoke match/pen (15 sec burn time) pass over the top and side edge of the opening of the combustion chamber, observe and record if the smoke/combustion products are drawn into the chimney or spill back into the room. Once the smoke is extinguished, close the appliance door
3. Repeat this test with all extraction fans running and internal doors open connecting the room the appliance is installed in to the extraction device(s) (see extraction test above)

Note: If smoke or combustion enters the room, then additional ventilation may be required to compensate for the extraction device(s). This can be tested by gradually opening a window and observing the relevant smoke patterns during operation.

If the smoke continues to fail to draw up the flue, or fails with additional ventilation beyond that advised by ADJ Table 1, thoroughly inspect the flue/chimney and termination for other faults.

Check the appliance/flue/chimney draw with a flue draught gauge and ensure draught is within manufacturer's guidelines. If no gauge is available, or no draught reading is given, you can test with smoke as a "safety check" but there is no substitute for using the correct tools and undertaking the correct tests

Commissioning is the final stage of an installation and intended to evidence that the appliance works safely at the time the commissioning takes place. All dedicated external air supply installations are subject to the relevant commissioning and site testing provisions as required for under Building Regulations and are to be notified through the HETAS CPS scheme, where a certificate of compliance is to be issued, a copy retained by the installer and a copy left with the consumer for their records.

The commission procedure detailed above should be followed to confirm compliance for DEAS appliances. Further supporting information on commissioning may be available from recognised product specific manufacturer's instructions, and should be referenced during the commissioning process.

A copy of the form should be left with the consumer and a copy retained by the installer for their records

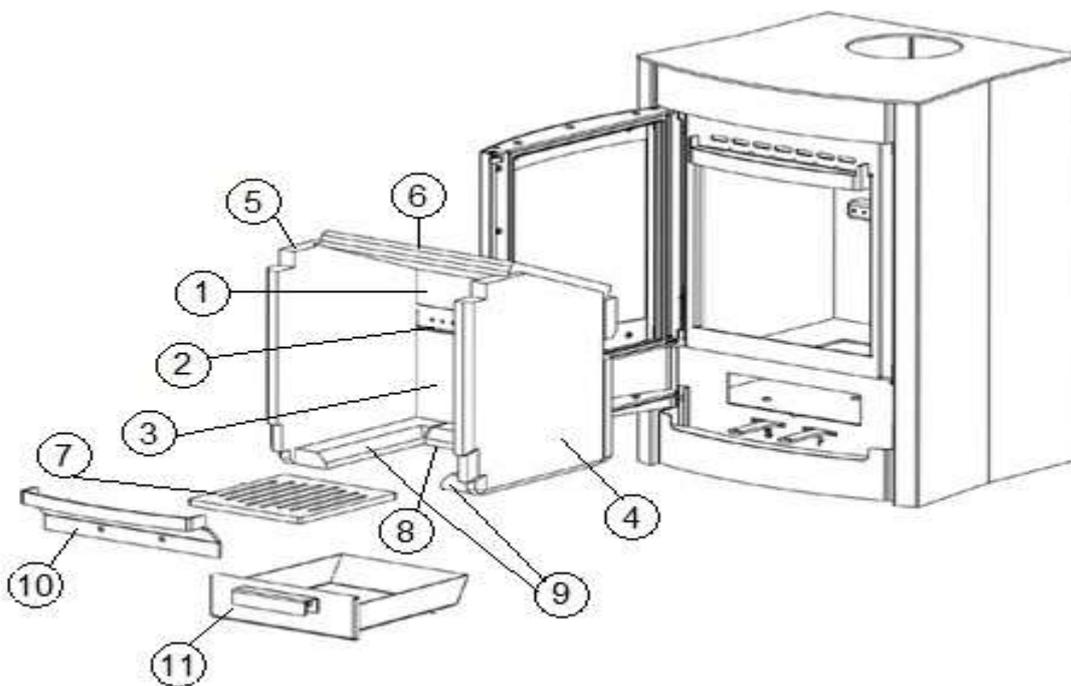
There must not be an extractor fan fitted in the same room as the stove as this can cause the stove to emit fumes into the room. If the extractor fan is fitted within a large open plan living area then the tests above should be carried out as a minimum. Broseley Fires do not guarantee the appliance will pass its spillage test in such cases.

Assembly – Smoke Control Area Specification

Your appliance will be delivered ready to be installed into a smoke control area. The appliance has a permanent mechanical stop on the secondary (wood) air supply (this ensures that the air intake cannot close completely). This mechanical stop cannot be modified.

Assembly – Internal Components

The diagram below shows the stove with all internals taken out. To take internals out of the stove follow the numbered sequence backwards from 10 down to 1.

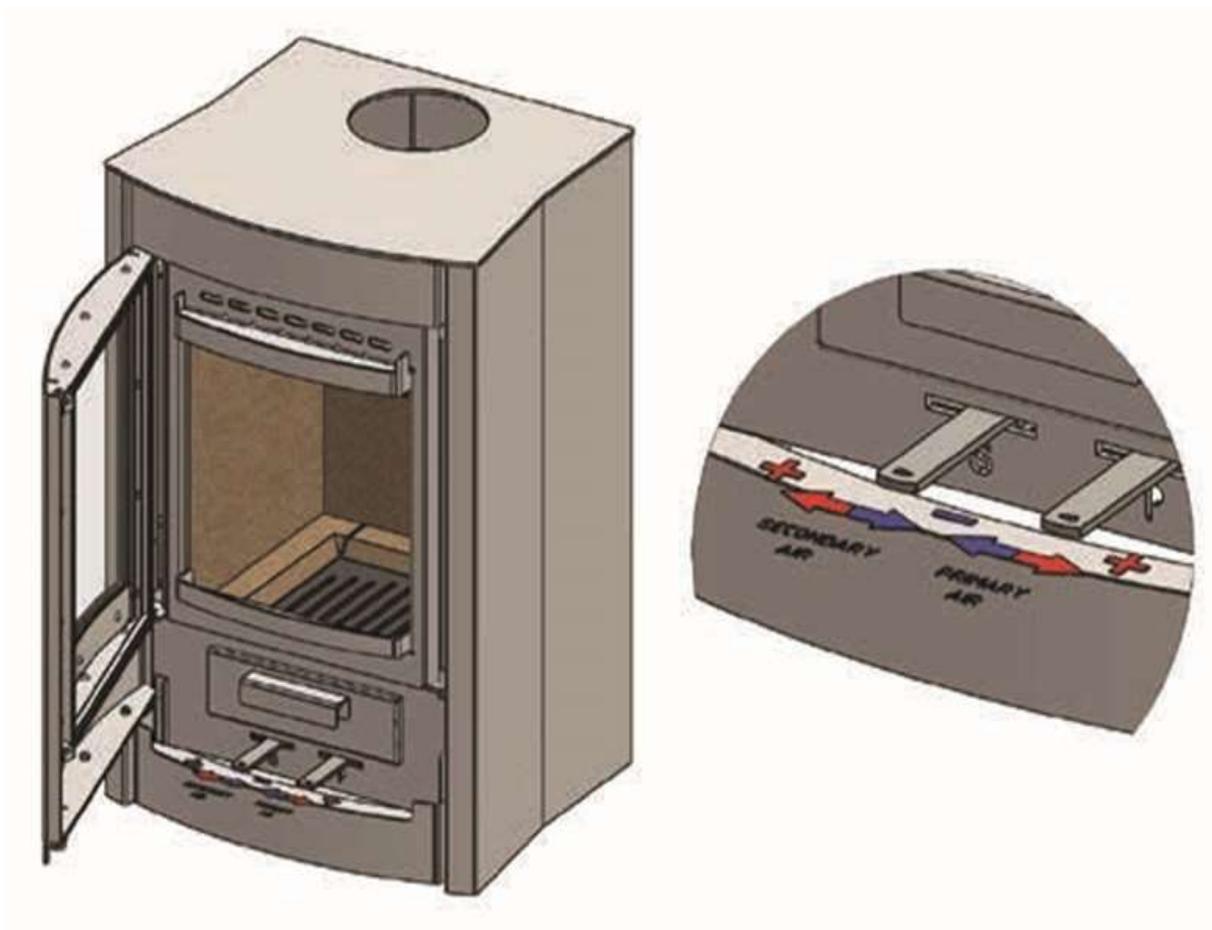


1. Top Rear Vermiculite – Replace by removing Tertiary air bar (2)
2. Tertiary Air Bar – Remove by Loosening 10mm bolts
3. Bottom Rear Vermiculite
4. Right Side Vermiculite
5. Left Side Vermiculite
6. Baffle – Remove by pulling towards the front of stove and drop on one side
7. Grate
8. Base Rear Vermiculite
9. Base Side Vermiculite
10. Log retainer
11. Ash Pan – Not required to be removed if replacing internals.

To refit the internals follow the numbered sequence from 1 – 11.

Controls Layout

The stove is fitted with two air controls which need to be correctly operated in order to light and maintain a fire. Both controls are situated below the door of the stove (as indicated on the diagram below) and are in the form of left/right sliders.



Controls Explained

Primary Air Intake

The primary air intake is the right slider situated below the door at the front of the stove. Having the slider fully to the left would indicate the intake is in the minimum position. When the slider is fully to the right the intake is the maximum position. This particular air intake is adjustable throughout the area of travel left to right to control the total amount of air required for suitable combustion.

The primary air intake is used on initial firing of the stove or when burning coal etc. Please see the **BURNING COAL** for a more in depth description.

Controls Explained

Secondary Air Intake

The secondary air intake is the left slider situated under the door at the front of the stove. Having the slider pushed fully to the right would indicate the intake is in the minimum position. When the slider is fully to the left the intake is in the maximum position. This particular air intake is adjustable throughout the area of travel right to left to control the total amount of air required for suitable combustion. Please note that when this slider is in the minimum position (fully left) there will still be an amount of permanent air entering the appliance. The Secondary air intake is used at initial start-up and to control the burn rate of wood.

Air wash System

Air wash is a system where secondary air is drawn into the stove (by combustion) through the air control under the door and is deflected down the back face of the glass, thus preventing the smoke coming into contact with the glass. It does not mean that you will never have to clean the glass, but substantially lengthens the periods between having to do so. The air-wash system works best when burning dry wood. Wet wood will produce more deposits on the glass. Also, deposits will form on the back of the glass when the stove is operated on low heat for extended periods (where fuel is only just smouldering).

Ash Pan

The ash pan can be removed using the protruding handle to pull the ash pan out of its housing. Use the glove provided at all times. It is recommended this is done when the stove is cold and not alight.

Coal Hoppers

Your stove has been supplied as a wood burner only. In order to burn coal efficiently coal hoppers will need to be used. These hoppers are an optional extra and can be purchased from Broseley Fires. The codes when ordering are:

S-HOTSPUR5/COAL – Hopper set for Hotspur 5 Stove

S-HOTSPUR9/COAL – Hopper set for Hotspur 9 Stove

To fit the hoppers simply place them as per the picture below. They sit directly on top of the existing bottom vermiculite. Care should be taken not to drop them onto the fragile vermiculite. The grate should be central and not covered in any way once the hoppers are in place.



Appropriate Fuels

Both the Hotspur 5 and the Hotspur 9 are designed tested and approved as wood burning appliances. However an optional coal kit can be purchased to allow the burning of certain coals. The kit consists of two refractory bricks which must be present in the stove at all times whilst burning coal.

Product	Suitable Fuel
Hotspur 5 Standard (without coal kit)	<ul style="list-style-type: none"> • Split Wood logs
Hotspur 5 (with coal kit)	<ul style="list-style-type: none"> • Split Wood logs • Coal suitable for a closed appliance
Hotspur 9 Standard (without coal kit)	<ul style="list-style-type: none"> • Split Wood logs
Hotspur 9 (with coal kit)	<ul style="list-style-type: none"> • Split Wood logs • Coal suitable for a closed appliance

* Split Wood logs (not exceeding 350mm in length and 100mm in diameter) not exceeding 20% moisture content.

Approval does not cover the use of other fuels either alone or mixed with the suitable fuels listed above.

In the case of the Hotspur 5 with the coal kit added, you can find a list of approved coals on the HETAS website.

Wood logs should be no longer than 25cms (dry, seasoned to under 20% moisture content).

House coal should not be burned on any of our products regardless of a coal kit. You should not burn any other coals which are intended for use on open fires.

Under NO circumstances burn “petroleum coke” or any other chemically enhanced fuel as it will burn out the internal grate and baffle plates in a very short period of time and may damage the stove beyond repair.

Do NOT burn wet wood, This will give a poor heat output and will cause heavy deposits of soot and tar to accumulate on the glass and throughout the stove and flue. The coating of soot and tar in the chimney is volatile creating a high risk of chimney fires. A growing tree contains a high percentage of water, the wood needs to be dried out (seasoned) before it is suitable for burning (this can take several years). Wood logs are best stored in a stack, sheltered from the weather, in a well ventilated area and raised off the ground. This allows the air to circulate and prevents mildew.

Lighting the Stove

Curing

On initial firing you will notice a very pungent odour, this is caused through the curing of the paint, we recommend starting with short burning sessions (with smaller quantities of fuel) and build up gradually to allow the components of the stove to settle. Opening doors and windows will allow the paint curing odour to dissipate and to allow ventilation into the room. Curing times can vary but typically should take around 8-12 hours (operation at high output) to complete. **Please take care not to touch any hot surface of the stove during the curing process as this will result in a permanent mark.**

Kindling

Stage 1

With the Primary and Secondary air controls in the maximum position and the door open, start your fire using scrunched up balls of newspaper. Form a bed on the grate using the newspaper, then add a generous amount of dry kindling in a criss cross pattern (as shown below).



Stage 2

Ignite the paper underneath using a match or suitable fire-lighter. Allow the paper and kindling to burn until it reduces down into hot embers. If the fire is dying during this stage the door can be closed but not latched leaving a small gap for extra combustion air.

Stage 3

Add another generous load of dry kindling and allow to burn down.

It may be necessary to repeat stage 3 if the chimney is cold or if you find you have smoke entering the room. This stage is vital for getting heat into the chimney which will create the draw that takes the smoke away, we would expect this stage to take between 15-20 minutes.

It is critical that you do not leave the stove during the entire lighting and kindling stage. See Burning wood and Burning Coal sections for the next steps in starting a new fire.

Burning Wood

Once you have kindled your stove (see previous page) and your chimney (flue) is sufficiently heated, you are now ready to start adding you logs.

Stage 4

Place 1-3 small logs onto the bed of hot embers using the gloves provided, close the door and reduce the Primary Air Control to approximately half way. Once the logs turn black the primary air can be set to the minimum position.

Stage 5

Once the smaller logs have burned down you can now add 2-3 larger (or full size) logs and close down the Secondary Air Intake as required. You can now control the burn rate of the stove using the secondary air intake, you are looking for a controlled flame (not smouldering in the embers or licking around the lid) this is mostly visual although a flue pipe thermometer will help you determine correct control and is recommended for the initial lightings.

Stage 6

Refuel as and when required (take care to open the door gradually as flames may lick out). Open both air controls whenever refuelling. Once the wood logs turn black the primary control can be closed fully and the fire controlled once again by the secondary control. If you no longer want to keep the fire going simply allow it burn out.

Burning Coal (Provided the coal kit is present)

With kindling complete you are now ready to add your approved coal.

Stage 4

Using the gloves and provided ash tool, rake the hot embers evenly over the grate and add a small amount of coal. Close the door and allow the coal to ignite then close the Secondary Air approximately half way. (The primary air control should be left at max)

Stage 5

When the small load of coal has burned down add a larger load and allow time for the coal to fully ignite, leave the Primary air intake at maximum. The coal should be spread evenly over the grate. You will now control the burn rate of the stove using the Primary air intake. The Secondary air intake should now be set to minimum. you are looking for a controlled flame (not smouldering in the embers or licking around the lid) this is mostly visual although a flue pipe thermometer will help you determine correct control and is recommended for the initial lightings.

Stage 6

Add coal as and when required. Ensure that you use the ash tool when refuelling coal to poke through any ash and debris so that it falls into the ash pan underneath, this is critical as coal requires a flow of air from underneath the grate.

Please take care not to touch any hot surface of the stove during the curing process as this will result in a permanent mark.

Smoke Control Areas

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 Hotspur 5 & 9 have both been recommended as suitable for use in smoke control areas when burning wood. They have a modified secondary/tertiary air control slide to prevent complete closure.

Further information on the requirements of the Clean Air Act can be found here :
<https://www.gov.uk/smoke-control-area-rules>

Your local authority is responsible for implementing the Clean Air Act 1993 including designation and supervision of smoke control areas and you can contact them for details of Clean Air Act requirements

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 appliance door left open except as directed in the instructions.

Dampers left open

Operation with the air controls or dampers open can cause excess smoke. The appliance must not be operated with air controls, dampers or door left open except as directed in the instructions

Warning Notes

Over-Firing

It is extremely important that you do NOT leave both of the air controls in the fully open position for extended periods or run the appliance with the door open. Leaving the air controls fully open (or running with the doors open) will lead to “over-firing”. Over-firing is caused when too much heat is generated within the fire chamber, this will lead to warping, buckling and general damage to the stove and its internal components. Over-firing can also be caused by an excessive flue draft.

PLEASE NOTE ANY DAMAGE TO THE APPLIANCE CAUSED THROUGH OVER-FIRING WILL NOT BE COVERED BY THE WARRANTY.

We highly recommend the use of a flue pipe thermometer so that you can monitor how much heat you are sending up the chimney, this will both enable efficient operation of your stove and also give a good indication if you are over-firing the appliance.

Fumes

Properly installed, operated and maintained, this appliance will not emit fumes into the dwelling. Occasional fumes may occur whilst de-ashing and re-fuelling. However, persistent fume emission is potentially dangerous and must not be tolerated. If fume emission does persist, the following immediate actions should be taken:-

- a. Open doors and windows to ventilate the room
- b. Let the fire go out or eject and safely dispose of fuel from the appliance
- c. Check for flue or chimney blockage and clean if required
- d. Do not attempt to relight the fire until the cause of the fume emission has been identified and corrected. If necessary seek expert advice

Paint

Please take care not to touch any hot surface of the stove during the curing process as this will result in a permanent mark.

Extended Shutdown

If the stove is to be left unused for a prolonged period of time then it should be given a thorough clean to remove ash and unburned fuel residues. To enable a good flow of air through the appliance to reduce condensation and subsequent damage, leave the air controls fully open.

It is important that the flue connection, any appliance baffles or throat plates and the chimney are swept prior to lighting up after a prolonged shutdown period

Maintenance

Ash Removal

The ash pans can be removed by using the ash tool to hook it forward so that you can grasp the pan using the gloves provided. We would recommend emptying the ash into a metal bucket for transportation.

You should only empty the ash when the appliance and ashes are completely cool and can be disposed of in your normal household refuse.

Cleaning the Stove

We recommend only doing this when the stove is cold using a soft brush to clean any of the stove surfaces, this is normally sufficient to remove dust, ash and debris. For stubborn marks you can use a damp lint free cloth, ensure that all surfaces are dried off immediately. We do not recommend using any kind of chemicals or abrasive materials. It is possible to touch up the paint using the original metallic black stove paint, however this new paint will then need to cure.

Glass Cleaning

A damp lint free cloth is normally sufficient; however for stubborn build ups we would recommend using a very fine wire wool.

Chimney Sweeping

It is essential that your chimney (flue) is swept at least once a year by a registered professional chimney sweep. Sweeping removes particles that could otherwise fuel a chimney fire, it should also highlight any potential issues such as leaks and damage to the flue.

Chimney Fires

In the event of a chimney fire ensure both Primary and Secondary air controls are fully closed and the door(s) remain closed at all times. If the chimney fire does not go out or if there is a serious risk to people and property, call the fire brigade immediately.

Regular sweeping of the chimney will remove combustible particles and will reduce the risk of chimney fires.

Stove Servicing

Your stove should be inspected annually to ensure all seals are present and correct and to gauge the condition of the internal components. The service should be done by a HETAS registered engineer who also perform a spillage test and ascertain the correct functioning of the plumbing circuit.

Trouble-shooting

Smoke comes out of the stove when the loading door is opened.

- The chimney cavity into which the flue pipe has been installed may be less than the minimum requirement.
- Deposits (soot or other obstructions) may have built up in the chimney and be restricting the flow of waste products. This flow rate is known as the 'draw'.
- Insufficient draw, this is especially common during milder weather. You will need to prolong the kindling stage to ensure the chimney (flue) is completely hot (you may even need to pre-heat the chimney using a method advised by the installer)
- Combustion air intake is not large enough or another appliance (e.g. Extractor fan) is taking air away from the stove.

The Stove does not produce the expected heat into the room.

- Has the flue pipe been sealed to the chimney to prevent heat being drawn up the chimney to waste?
- Green or wet wood is being burnt.
- The chimney has excessive draw (this is unusual). Seek installer advice with regard to installing a Flue Draught Stabiliser.
- The stove has been recessed into the existing fireplace and a lot of heat is being absorbed by the surrounding fireplace walls rather than being radiated into the room. Pull the stove forward.
- For the maximum efficiency of heat transference into the room the stove should be sited on the hearth of the fireplace rather than recessed.

The Stove burns too fast.

- Use whole logs rather than split ones.
- The wood being used may be generally too small.
- The "air-tight" seal between the fibre rope on the doors and the casting may have been lost, reinstate this seal or replace.
- The chimney has excessive draw (seek installers advice on this point).
- The fibre rope seal between the door and the glass may be leaking. Tighten or replace.

The Stove door does not seal properly.

- Replace door seal if the above does not provide an adequate seal.

Commissioning Form

Commissioning Statement and Check-list

Stove Purchased

From: _____

Address: _____

Telephone Inc area code: _____

Installation Date: ____/____/____ Stove Name: _____

1st year service is due 1 year from this date

Product Serial Number: _____ Invoice Number: _____

Stove installed by: _____

Address: _____

Telephone Inc area code: _____

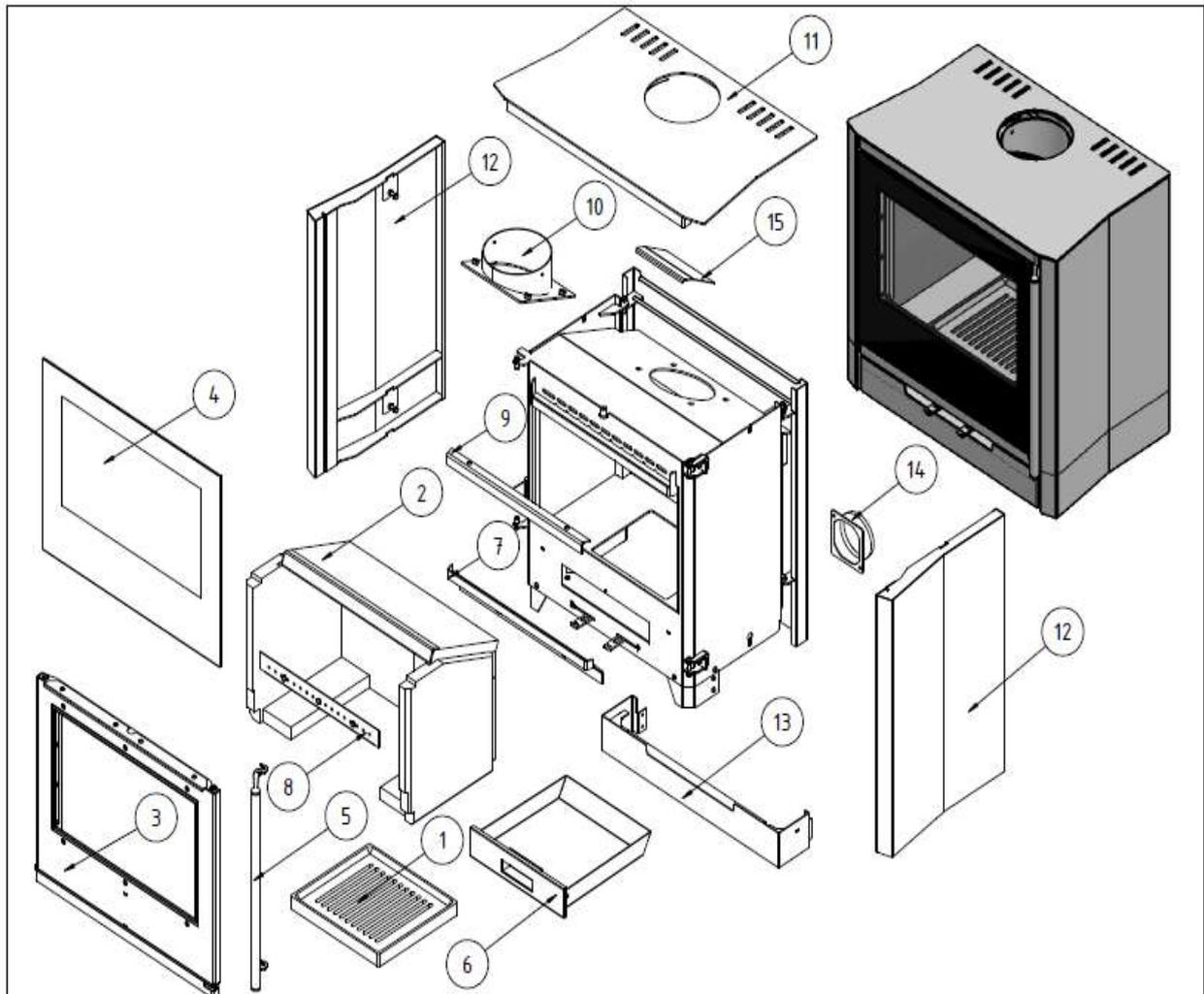
HETAS Registration Number: _____

Check-list (please indicate Yes or No by circling or ticking appropriately)

Is the flue system the correct length and diameter for stove:	Yes	No
Flue swept and checked for soundness:	Yes	No
Manufacturers clearances adhered:	Yes	No
Smoke spillage test performed on stove:	Yes	No
Stove controls fully explained to end user:	Yes	No
Correct fuels explained to end customer:	Yes	No
CO Alarm fitted and tested:	Yes	No
Instruction booklet & HETAS certificate handed to end user:	Yes	No

Signature: _____ Print Name: _____

Spare Parts



Steel Door Version

1: Grate, 2: Vermiculite set, 3: Door, 4: Glass, 5: Door Handle, 6: Ash pan, 7: Log Retainer, 8: Tertiary Air Bar, 9: Vermiculite Bracket, 10: Top Flue Outlet Spigot, 11: Lid, 12: Side Panel L&R, 13: Front Panel, 14: DEAS Air Stub, 15: Steel Baffle,

Annual Service Record

1ST YEAR SERVICE completion date:

SERVICE ENGINEER: _____ REG. No. _____
COMPANY NAME: . _____
COMPANY ADDRESS: . _____

POSTCODE: _____
CONTACT NUMBER _____

2ND YEAR SERVICE completion date:

SERVICE ENGINEER: _____ REG. No. _____
COMPANY NAME: . _____
COMPANY ADDRESS: . _____

POSTCODE: _____
CONTACT NUMBER _____

3RD YEAR SERVICE completion date:

SERVICE ENGINEER: _____ REG. No. _____
COMPANY NAME: . _____
COMPANY ADDRESS: . _____

POSTCODE: _____
CONTACT NUMBER _____

4TH YEAR SERVICE completion date:

SERVICE ENGINEER: _____ REG. No. _____
COMPANY NAME: . _____
COMPANY ADDRESS: . _____

POSTCODE: _____
CONTACT NUMBER _____

5TH YEAR SERVICE completion date:

SERVICE ENGINEER: _____ REG. No. _____
COMPANY NAME: . _____
COMPANY ADDRESS: . _____

POSTCODE: _____
CONTACT NUMBER _____

6TH YEAR SERVICE completion date:

SERVICE ENGINEER: _____ REG. No. _____
COMPANY NAME: . _____
COMPANY ADDRESS: . _____

POSTCODE: _____
CONTACT NUMBER _____

Receipts should be retained for each service beyond year six.

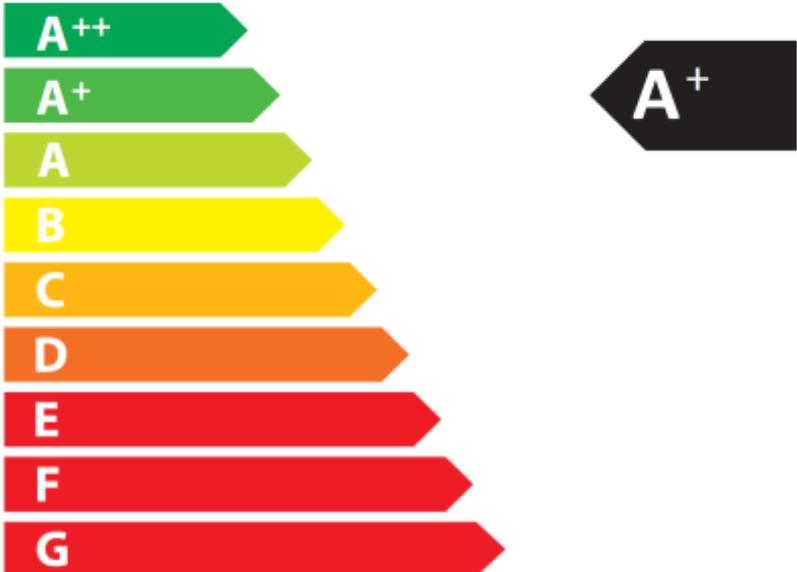
Product Fiche	
Energy Labelling Directive - (EU) 2015/1187 for Solid Fuel Boilers and Packages of Solid Fuel Boilers, Supplementary Heaters. Temperature Controls and Solar Devices.	
Manufacturer Name:	Broseley Fires Ltd
Model Name:	Hotspur 5
Energy Efficiency Class:	A+
Nominal Heat Output to Room:	5.0
Nominal Heat Output to Water:	0.0
Seasonal Space Efficiency:	108.9
Nett Efficiency:	82.0
<i>Note: The product fiche can cover a number of solid fuel models supplied by the same manufacturer.</i>	
Comments/Installer/Hand Over Instruction:	
SEE MANUFACTURERS INSTRUCTIONS FOR MORE DETAILS	



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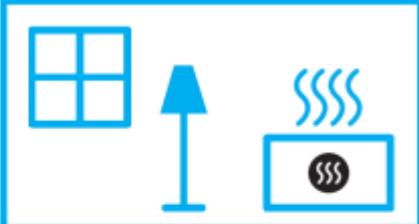
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Broseley Fires Ltd Hotspur 5



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2015/1186

Product Fiche			
Energy Labelling Directive - (EU) 2015/1187 for Solid Fuel Boilers and Packages of Solid Fuel Boilers, Supplementary Heaters. Temperature Controls and Solar Devices.			
Manufacturer Name:	Broseley Fires Ltd		
Model Name:	Hotspur 9		
Energy Efficiency Class:	A		
Nominal Heat Output to Room:	9.0		
Nominal Heat Output to Water:	0.0		
Seasonal Space Efficiency:	106.0		
Nett Efficiency:	80.0		
<i>Note: The product fiche can cover a number of solid fuel models supplied by the same manufacturer.</i>			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Comments/Installer/Hand Over Instruction:</td> </tr> <tr> <td style="padding: 5px;">SEE MANUFACTURERS INSTRUCTIONS FOR MORE DETAILS</td> </tr> </table>		Comments/Installer/Hand Over Instruction:	SEE MANUFACTURERS INSTRUCTIONS FOR MORE DETAILS
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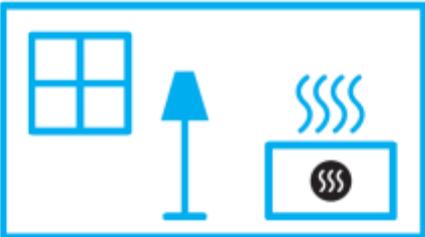
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2015/1186

Warranty

This appliance must be installed and commissioned by a fully qualified, registered engineer. A "Declaration of completion Certificate" must be obtained for the installation and retained by the end user. Failure to comply with these requirements may void your warranty. You, as the end user, have a contract by law with the supplier / dealer from whom you purchased the product. That dealer then has the same contract with the manufacturer or wholesaler and these have a contract with their suppliers.

ALL CLAIMS MUST FOLLOW THIS PROCEDURE.

Thank you for choosing a Product from **Broseley Fires Ltd**. This warranty gives you specific legal rights. The statutory rights of the consumer are not affected by the warranty, or the consumers' rights against the dealer arising from their sales / purchase contract.

The manufacturers' warranty:

Your Product will be free from defective parts, material, and workmanship at the time of its original purchase for a period of Five (5) years. This Warranty will become active as of one month from the date of delivery.

This warranty does not cover any failure of the unit due to normal wear and tear, misuse, abuse, accident, illegal modification, illegal installation or repair, damage resulting from improper use or failure to maintain the product. Variations in color and texture are a natural characteristic of heating products. Colour changes may result from exposure to light and other elements which are a part of the aging process. These material variations and changes are not covered by this warranty. If during the warranty period, this Product fails to operate under normal use and service, due to defects in material and / or workmanship, Broseley Fires will either repair or replace the product. The repaired or replaced product shall be warranted for the remaining period of the original warranty + the time taken to days from the date of repair, whichever is longer.

Repair or replacement may involve the use of functionally equivalent reconditioned units. Replaced parts or components will become the property of Broseley Fires.

Should you wish to claim under the warranty, please contact the supplier / dealer from whom you purchased the appliance. Do not claim directly to Broseley Fires, as they are unable to process any direct claim from an end user.

Product design and any specifications are subject to change without notice. This is due to our continuous product development and improvement. The buyer will not be entitled to request free upgrades to the new design or compensation for previously purchased products or any products on order.

- This Warranty covers all Broseley Fires costs within the Warranty period.

If the appliance remains uninstalled for a period greater than six months from date of delivery the Warranty will become active six months from the date of original invoice to the distributor.

IN NO EVENT SHALL BROSELEY FIRES BE LIABLE FOR INCIDENTAL OR CONCEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS OR COMMERCIAL LOSS, TO THE FULL EXTENT THOSE DAMAGES CAN BE DISCLAIMED BY LAW. (if applicable)

NON - COVERAGE OF THE GUARANTEE

The consumable items within the product are not covered by the warranty, nor is the glass
If the end-user's claim should not be covered by this guarantee, the end-user shall be liable for costs incurred by Broseley Fires such as callout and inspection costs for examination of the product, transportation costs of the product as well as any other relevant costs. If, after having been informed about the non-coverage of the guarantee, the end-user wants to have the repairs done, the end-user shall additionally pay for any spare parts used and for the labour and transportation costs incurred. If repairs are carried out under this guarantee, the remaining guarantee period for the product shall be extended by the period of time that has elapsed since the complaint was officially logged with Broseley Fires until the repairs have been completed

A COPY OF OUR FULL TERMS AND CONDITIONS IS AVAILABLE ON REQUEST.

** End-user means the natural or legal person who owns the product and who has not acquired it with a view to reselling or installing it in the course of business