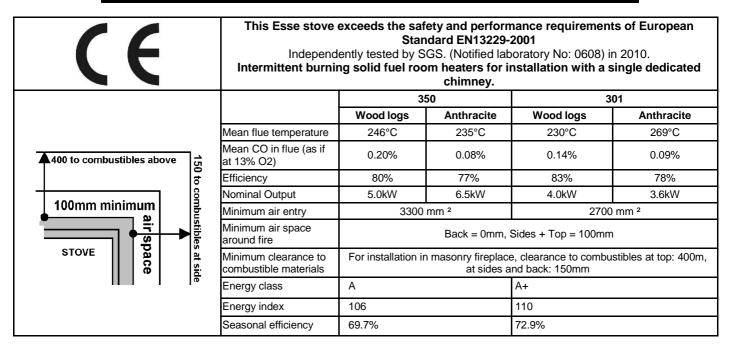


INSTALLATION AND OPERATING INSTRUCTIONS LEAVE THIS DOCUMENT WITH THE HOUSEHOLDER!



Manufactured by Esse Engineering Long Ing, Barnoldswick, Lancashire BB18 6BJ, England www.esse.com

Read these instructions! Use only recommended fuels!

This document, when completed by the installer, constitutes part of a 'Hearth Notice' for Building Law. It must be left with the householder and placed where it can easily be foun INSTALLED AT LOCATION: BY:	purposes of d.	Flue Draught measured on commissioning: Pa WG	
EMERGENCY CONTACT:		Fuel used on	
I definitively assert that this installation is safe, has been lit and demonstrated thouseholder, conforms with current building regulations and with these instructions.		commissioning	
SIGNED: DATE:			

TO FIND A QUALIFIED INSTALLER, FUEL SUPPLIER or CHIMNEY SWEEP, CONTACT:

UK: The Solid Fuel Association, 7 Swanwick Court, Alfreton, Derbyshire DE55 7AS Tel:0845-601-4406 **www.solidfuel.co.uk ROI:** Irish Nationwide Fireplace Organization, 162 Capel Street, Dublin 1 Tel:01-801-5959 **www.fireplace.ie**

Esse 301 & 350 SE may be used in smoke control areas when operated strictly in accordance with these instructions, when burning: **UK:** Untreated wood logs, natural anthracite or smokeless fuels (*Exempted from s20 of the Clean Air Act 1993*)

ROI: Wood logs, smokeless fuels or peat briquettes, but not petroleum coke (Control of Atmospheric Pollution Regulations, 1970)

Welcome to your new Esse...

...and to joining the illustrious tribe of Esse fire-keepers, along with, over more than one hundred and fifty years: Florence Nightingale, Captain Scott, Mrs Beeton, Auguste Escoffier and most of the Royal Families of Europe.

THIS APPLIANCE BECOMES EXTREMELY HOT AND **CAN PRODUCE POISONOUS GASES.**

A fire-guard should be used if children or the infirm are present. The installer is required to EXACTLY follow these instructions and to comply with all local, national and applicable international standards. (BS 8423:2002)

This document is a guide to installing and using this Esse heating stove, the installer must understand and special care must be taken when installing the stove such that the requirements of the Health and Safety at Work Act are met.

Handeling	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.			

YOUR CHIMNEY...

...creates the draught which makes your Esse work - it must:

- Be installed to BS EN 15287-1:2007
- Generate a draught in use of at least 12Pa (0.05ins wg)
- Be capable of withstanding the temperatures generated.
- Be incapable of leaking fumes into the dwelling This will commonly be achieved by it:

· Being at least 5m high.

- · Terminating at least 1m above any roof ridge.
- · Having an internal cross-section not less than 0.018m2 (e.g. Ø 150mm) and never more than 0.14m² (e.g. 375 x 375mm)
- · Being free from even the slightest crack or source of leakage.
- Having no bends sharper than 45°.
- · Being entirely free of obstructions and swept by a qualified chimney sweep.
- · Being connected only to this one appliance.
- · Being of masonry or otherwise adequately insulated.
- · Conforming to local building regulations.

Special rules apply where the flue passes through timber, thatch or other vulnerable materials- take specialist advice.

AIR SUPPLY: Your stove needs air to breathe - there must be a permanent fresh air supply into the space in which it is installed equal to the size given on page 1. This may sometimes be provided by air leaking around door frames etc. (it is commonly accepted that this alone may suffice for appliances <c.5kW) but in any case of doubt, fit a purpose-made air vent. An extractor fan, or another fuel-using appliance in the same building, can remove this air. Guidelines for air supply requirements can be found in Approved Document J of The Building Regulations.

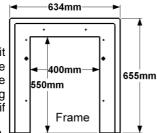
FITTING: The stove is to be fitted into fireplaces, which must

- Be made of fireproof materials, e.g. brick, tile, stone, iron.
- · Have a hearth at least 125mm thick (which may include the thickness of a solid floor) extending at least 225mm in front of the appliance and 125mm to each side.
- · Be capable of withstanding the very high temperatures generated by this appliance.
- Have free space of at least 100mm for air to circulate at the top, front and sides around the in-room parts of the appliance.

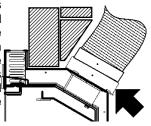
FITTING FRAME A metal fitting frame is available

CHIMNEY SWEEPING: Although it is often possible to sweep the chimney through the fire with the throat plate removed, consider fitting cleaning hatches to provide access if needed.





LINERS A round flue-pipe adaptor is available to connect to standard 150mm flue pipe. The adaptor can be sealed to the pipe or liner (fitted with a standard 150mm adaptor) with fire, cement before inserting the stove in its fireplace, the adaptor is then smeared with fire cement and screwed to the stove outlet from inside.



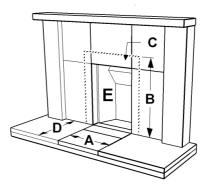
FITTING: THE 'ENGLISH' METHOD

These Esse models can fit straight into a standard British or Irish fireplace conforming to BS1251 & BS8303. The fireplace can be of any shape, but will always:

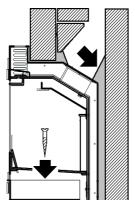
- Have an opening width (A) of between 400 and 420mm,
- An opening height (B) of between 540 and 560mm,
- A flat area (C) extending 70mm around the opening
- Have a hearth extending at least 300mm (D), without obstructions to prevent the door opening.

(The fireplace will become VERY hot - Where thin slabs of mineral material (marble, limestone etc.) are used to face a fireplace, we recommend using 5 separate panels, as shown, to allow for differential expansion.)

The 301 model will fit directly into any correctly constructed



fireplace with the fireback (E) in place. The larger 350 model requires the fireback to be broken up and removed, so that a clear,



level depth of at least 260mm is available.

Fit a soft fibre seal against the back of the in-room part of the stove using the adhesive tape supplied. Place the appliance on the hearth and push it fully into the fireplace so that the seal is compressed forming an absolutely airtight seal against the fireplace.

301 only: Fasten the top screw clamp so that it grips the inside of the fireplace lintel.

Both models: Screw the stove firmly in place through the fixing hole(s) in the base of the firebox. (Additional fixing, if needed, is into the fireplace surround, through the two holes towards the top

right and left of the fueling opening)

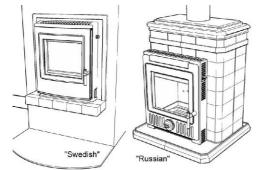
These Esse stoves are double-cased - it is not necessary to fill any small gap behind the appliance - larger gaps should be filled with rubble, vermiculite granules or mineral fibre wool.

It is highly advisable, where fitted into a masonry flue without a metal liner, to form a smooth mortar flaunching between the flue outlet and the flue. With care, this can be done through the flue outlet.

THE 'RUSSIAN' METHOD

The stove is fitted into a free-standing chamber built from firebricks, often decorated with tiles, slate or marble panels. This

not only collects extra heat, but acts as a storage heater, continuing to warm the room long after the fire has died down.

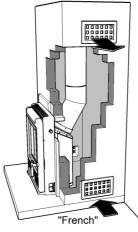


THE 'FRENCH' METHOD

The stove is fitted into a hollow chimney breast which has air openings at top and bottom to transfer additional heat by convection from the long, uninsulated, flue pipe. This method gives higher efficiency and quicker warm-up, but thereby reduces the heat given into the chimney so that great care must be taken to ensure that adequate draught is maintained.



The stove is fitted in the 'English' or 'French' method, but at height, providing easier access and greater visibility. The stove is supported on a masonry shelf (a pressed concrete



Paving slab surfaced with tiles is ideal). Use of the fitting frame is recommended. Having the stove at least 400mm above will provide the necessary clearance from a combustible floor, which can be protected from stray sparks by, for instance, a glass floor protector.

CHECK THE INSTALLATION!

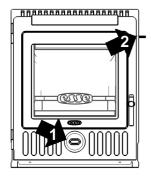
Once installed, light the fire, demonstrate it to the householder and check that:

- 1) It burns controllably and does not emit fumes to the room
- The route for gases from the stove to the chimney terminal is completely airtight, unobstructed and able to be swept.
- 3) The entire construction is of durable fireproof materials.
- 4) The flue presents a draught in use of at least 12Pa
- 5) Fit a CO alarm!

LIVING WITH YOUR ESSE

Every fuel, chimney and condition of use is different. Only experience will show which the best settings for you are.

LIGHTING If you're lighting the fire after a period of non-use, do check the chimney for blockages first! Empty the ashes. Place two or three firelighters *close together*, or screwed-up paper covered with very dry sticks, at the back of the grate and light them. When they are burning well gently fill the fire very full, just up to the level of the top of the firebox liners, with dry fuel, close the door and set the air control to the 'high' position.



CONTROL How fast the fire burns depends on how much air reaches the fuel. The stove has two air controls, one below the window ('primary' ①) and one above ('airwash control' ②), which is moved to the right for highest output, to the left for 'low'.

When burning wood always **keep** (1) Closed and adjust the burn using (2). When burning mineral fuels like anthracite or synthetic smokeless fuels, control the fire with (1) and keep (2) almost closed.

The best settings will depend on your fuel, air supply and flue

draught and can only be found from experience. EMPTYING

ASHES use the tool or glove to open the door. Stir the fire with a poker and use the tool to lift out the ashpan. Remember to let ash cool before disposing in plastic sacks or dustbins. There is no need to empty every last speck, but ash should never be allowed to build up so that it comes into contact with the underside of the grate.

EXTENDED BURNING Allow the fire to burn down to a low, hot firebed. Empty the ash and fully fill with hard fuel such as anthracite (c30mm size is best). Set the air control to 'low'.

CLEANING Wipe the stove body with a slightly damp cloth when cool, don't use abrasives, metal polish or 'cream' cleansers as they can scratch the surface. NEVER use aerosol sprays near the hot fire – they can ignite.

KEEPING THE WINDOW CLEAN With most fuels the window will require no cleaning other than an occasional wipe with a dry cloth. Simply operating the stove for a few minutes at high output will usually burn-off any deposits left by tarry or wet fuels. Severe stains can be removed with a proprietary cleaner. After a period of use tiny hairline cracks may appear on the window, this is not a fault, but is characteristic of the toughest and most heat-resistant material currently available. Reduce the risk of staining by using only very dry fuel and having the airwash control (top right) always slightly open (i.e., out)

OPENING THE DOOR this Esse is designed to be operated only with the door closed. Open the door slowly to minimize fume emission and prevent hot fuel falling out.

Parts of the stove become very hot while the stove is running so should not be touched with bare hands. Special operating tools and a glove are provided for operation of the hot stove.

FUELS

Different fuels will perform differently with different chimneys and air supply situations. There is no 'perfect' fuel for every situation, so we strongly recommend that you try a selection of fuels (or mixtures) to find which suits you best.

WOOD When wood is cut down its cells are full of water. Burning such wet or 'green' wood wastes heat in making steam and produces flammable, acidic tars which will cling to, and can damage, your stove and chimney. Logs should be split lengthways and dried for at least a year. The fine, white residue produced when wood burns is not ash, but the remains of cell walls which can burn if kept hot enough, so don't de-ash a wood fire until absolutely necessary.



Minimize smoke emission from wood by:

- Split logs lengthways for drying
- Use logs no bigger than about 100mm x 250mm
- Ensure logs are *absolutely dry* (less than 15% moisture)
- Fill the stove crisscross, so air can circulate between logs.
- Fill 'little and often'
- Always have the airwash control (2) at least a little open.
- When first lighting, or reviving a fire from embers, use only very small, thin, dry, sticks.

JOINERY WASTE Dry wood offcuts will burn well, but don't expect softwood waste to burn as cleanly or for as long as hardwood logs. HOUSECOAL (or BITUMINOUS COAL) (Not smokeless) Makes lots of tarry smoke which will stain the window and large volumes of flammable gas which make it difficult to control and risk explosions. Despite its low cost, it rarely represents value for money. Don't use house coal.

ANTHRACITE and **DRY STEAM COAL** (Smokeless) Are natural hard, shiny forms of coal. Slow to light, they burn with great heat and last a long time. Choose the 'small nuts' size.

LIGNITE is a natural mineral, between peat and coal. It lights easily and burns well, though some varieties produce much ash BRIQUETTES Are compressed blocks of fuel, generally able to burn for long periods and remarkable for their consistency. 'Home fire' and 'Phurnacite' are smokeless types while other brands are made from

lignite, peat or house coal.

PETROLEUM COKE sold as 'Petcoke', 'Longbeach' and under various proprietary names, is made from oil. Easy to light and to control, its exceptional heat and lack of protective ash mean that it is MUST NOT be used unless mixed with another fuel. Grate and liner life will be drastically reduced when using petroleum coke HOUSEHOLD WASTES Some plastics give off toxic fumes when burned and remember that batteries and aerosols explode! this Esse is not an incinerator, so only ever use the recommended fuels and NEVER use liquid fuels in any form.

SUMMER SHUT DOWN: Before a long period of non-use, empty fuel and ash, remove the throat plate and leave all the air controls open to allow ventilation to reduce condensation.

PROBLEMS?

Problems like those listed here are due to some difficulty with the installation, chimney or fuels, so please check back through this leaflet carefully. If necessary seek specialist advice.

SMOKE FROM THE CHIMNEY It is quite normal for a little smoke to be emitted from the chimney when the fire is cold. Use only VERY dry wood or smokeless fuels and take care to follow the instructions about 'control' earlier in this document.

HEAT OUTPUT A stove can heat a typical room of about 12m³ Warning Note Volume for each kW of output, so a 5kW model can heat up to (12 the dwelling. Occasional fumes from de ashing and re fuelling may occur. a larger room will result in excessive fuel consumption and should be taken: damaging overheating.

LACK OF CONTROLLABILITY Wood and some other fuels may burn excessively until the gases in them have been used up. You (b) can reduce this effect by making sure that the fire is set to 'low' for (c) a while before refueling and checking that the door seals fully.

PERIODS DIFFICULTY BURNING FOR EXTENDED

appliances are designed to burn wood quite rapidly in order to The most common cause of fume emission is flueway or chimney blockage. eliminate dangerous smoke emissions. For extended burning, use For your own safety these must be kept clean at all times. hard mineral fuels like natural anthracite. If the fire goes out with fuel still in the firebox, then this is probably because too little air has been reaching it, try leaving the air controls open a little more. Check that the door seals are sound and that there are no cracks or gaps anywhere in the flue. For longest burning, we recommend hard fuels such as anthracite.

SMOKE COMING INTO ROOM Fumes are poisonous- smoke emission must NEVER be tolerated, causes might be:

INADEQUATE SEALS: Check that an inset appliances is fully sealed against the fireplace. Even the tiniest crack or gap can spoil the draught.

BLOCKED THROAT PLATE: Has soot and ash can collected on

ALTERNATIVE DOORS

Any Esse 301 and 350 model can be fitted with any door front from an extensive range of styles and colours.

WEARABLE PARTS

- Throat plate (state 301 or 350) a)
- b) Liner Set (stare 301 or 350)
- Grate with front bar (both models) c)
- Ashpan (state 301 or 350)
- Grate infill (350 only)

Not shown are:

- Door rope seal
- Door glass
- Operating tool

the 'throat plate' above the inner back part of the firebox? See the 'maintenance' section.

UNSUITABLE, BLOCKED OR UN-SWEPT CHIMNEY: The first requirement for correct operation is a sound chimney. Check the requirements earlier in this document and in any case of doubt have the chimney professionally swept.

POOR AIR SUPPLY: Is there enough air? Lack of air to the fire is a common cause of smoking and poor performance. Air supply problems may be worse in certain wind conditions incorrectly ascribed to 'downdraught', which is in fact very rare), where air can be sucked out of the room. The answer is to fit an air vent, as near to the fire as possible, facing into the usual wind direction.

DOWNDRAUGHT: Wind can blow down a chimney if there is something higher nearby such as a tree, hill or high building. Fitting an anti-downdraught cowl to the chimney top can cure this. Types which cannot be swept through are not recommended.

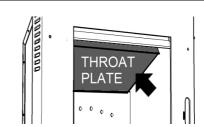
POOR CHIMNEY DRAUGHT- Chimney draught in use MUST be at least 12Pa.

CHIMNEY FIRE: In the rare event of deposits inside the chimney igniting (roaring sound + dense smoke and sparks from the chimney) immediately close the door, shut all air controls and call the fire brigade. Prevent fires by using very dry fuel and having your chimney swept regularly.

x 5) 63m³, a room of about 5m square. The actual size depends on However, persistent fume emission is potentially dangerous and must not be the insulation and air-change ratio of the room. To attempt to heat tolerated. If fume emission does persist, then the following immediate action

- Open doors and windows to ventilate the room and then leave the premises.
 - Let the fire go out.
 - Check for flue or chimney blockage and clean if required Do not attempt to relight the fire until the cause of the fume emission has been identified and corrected. If necessary seek expert advice.

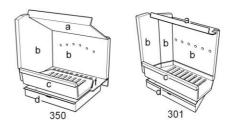
MAINTENANCE



MONTHLY- With the fire cold, remove, clean and refit the throat plate (or 'baffle plate') fitted below the flue outlet. Check that the flue is clear and unblocked, and that the door seals are sound.

ANNUALLY- SWEEP THE CHIMNEY The entire length of the chimney from stove to outlet should be swept annually, or more often if smoky fuels are used.

NEW PARTS this Esse has been extensively tested for safety please don't try to modify it and always make sure to obtain genuine spare parts.



Your ESSE is guaranteed against defects arising from faulty manufacture for 2 years when supplied by an ESSE Specialist.

Upon registration of the warranty, ESSE will extend the guarantee period to 5 years from purchase. Your details must be registered with us by either returning the completed warranty card or by completing registration on-line at www.esse.com. The warranty must be registered within 1 month of installation to qualify for the 5 year warranty.

The appliance must be only used for normal domestic purposes and in accordance with our instructions, be correctly installed and serviced. The guarantee does not cover: Installation, Wear and tear or Parts deemed to be replaceable or service parts replaced in the normal usage of the appliance.

Product Fiche



Energy Labelling Directive - (EU) 2015/1187 fo Solid Fuel Boilers and Packages of Solid Fuel Boilers, Supplementary Heaters, Temperature Controls and Solar Devices Manufacturer Name: Model Name: Esse 350SE	5/1187 to Solid Fuel Boilers and lementary Heaters, Temperature lar Devices Esse Engineering Ltd. Esse 350SE
Energy Efficiency Class:	4
Nominal Heat Output to Room:	5.0
Nominal Heat Output to Water:	0.0
Seasonal Space Efficiency:	105.5
Net Efficiency:	79.7
Note: The product fiche can cover a number of solid fuel boiler models supplied by the same manufacturer. Please use additional cells containing the information above for more than 1 appliance.	umber of solid fuel boiler models lease use additional cells iore than 1 appliance.
Comments/Installation/Handover Instruction:	istruction:



Energy Labelling Directive - (EU) 2015/1187 fo Solid Fuel Boilers and Packages of Solid Fuel Boilers, Supplementary Heaters, Temperature Controls and Solar Devices

Manu Mode: Nomi Seas Suppl Conta	Manufacturer Name: Esse Engineering Ltd.	Model Name: Esse 301SE	Energy Efficiency Class:	Nominal Heat Output to Room: 4.0	Nominal Heat Output to Water: 0.0	Seasonal Space Efficiency:	Net Efficiency:	Note: The product fiche can cover a number of solid fuel boiler models supplied by the same manufacturer. Please use additional cells containing the information above for more than 1 appliance.	Comments/Installation/Handover Instruction:
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Declaration of performance according to Regulation (EU) 305/2011

Ref No: ESS-Esse 301SE-CPR-2017-19

Point 1	Product Type		Esse Engineering roomheater burning solid fuel without supply of hot water in accordance with NEN EN 13229:2001 _ Amd A2:2004					
2	Product model designati	ion	Esse 3015E, Serial No					
3	Intended use		Roomheater burning s	olid fuel without supply of hot water				
.4	Manufactured by		Esse Engineering Ltd. Long Ing, Bernoldswick, Lancashire, BB18 684 Tel-01282 813235 Fax: Email:enguiries@esse.com					
5	Manufacturer's authorised repre	esentative	ve Esse Engineering Ltd.					
6	System of assessment and verificonstancy of performan	lication of	System 3					
7	Notified laboratory name and	address	The notified laboratory SGS Nederland B.V., Laboratory number 608 performed the determination of the product type specification on the basis of type testing under system 3 and issued the test report Ref. EZKA/10/0235-2					
8	Declared performance:-							
	Harmonized Technical specification:		NENEN 13219:2005 _ Amd Az:2004					
	Essential characteristics	Per	formance – Wood	Performance - Ancit				
	Fire Safety:-		As					
	Reaction to fire	Rear = 150mm						
	Clearance distances to combustible materials		omm comm NPD					
	Risk of burning fuel falling out		PAS	5				
	Emission of combustion products	CO = 0.24%		CO=0.09%				
	Surface temperatures		PASS	PASS.				
	Electrical safety	N/A		N/A				
	Cleanability	PASS		PASS				
	Maximum operating pressure:	N/A		N/A				
	Flue gas temperature at nominal heat output		206°C	243 °C				
	Mechanical resistance to carry a chimney		NPD.	NPD				
	Nominal output		4.akW	3.6kW				
	1 Indemnar doubler		4.3kW	3.6kW				
	Room heating output		Manager .	- V. 100000				
	The state of the s		- Alance					
	Room heating output		75.4 ⁸ 9 82.9 ⁸ 6	76.7% 78.1%				

Signed for and on behalf of the manufacturer by:

CRAIG & WITER (Name)

20/12/2017 (Date of issue)

(Signature)

Declaration of performance according to Regulation (EU) 305/2011 Ref No: ESS-Esse 350SE-CPR-2017-19

3 4	Product model designati		Esse Engineering roomheater burning solid fuel without supply of hot water in accordance with NEN EN 13229:2001 _ Amd Az:2004					
		on	Esse 350SE, Serial No					
4	Intended use		Roomhester burning solid fuel without supply of hot water					
	Manufactured by		Esse Engineering Ltd. Long Ing, Barnoldswick, Lancashire, BB18 6BJ Tel.01281 813235 Fax Email enquiries@esse.com					
5	Manufacturer's authorised repre	sentative	Esse	Esse Engineering Ltd.				
6	System of assessment and verificonstancy of performan	ication of		System 3				
7	Notified laboratory name and	address	The notified laboratory SG5 Nederland B.V., Laboratory number 608 performed the determination of the product type specification on the basis of type testing under system 3 and issued the test report Ref: EZKA-14-0146-3					
8	Declared performance:-							
	Harmonized Technical specification:		NEN EN 13129:2001 _ Amd A2:2004					
	Essential characteristics	Performance - Wood Performance - Ancit						
	Fire Safety:- Reaction to fire		As					
	Clearance distances to combustible materials		Rear = 35 Sides = 25 Ceiling = 4	gomm				
	Risk of burning fuel falling out		PAS	5				
	Emission of combustion products		CO = 0.20%	CO=0.08%				
	Surface temperatures	PASS		PASS				
	Electrical safety		N/A	N/A				
	Cleanability	PASS		PASS				
	Maximum operating pressure	39-100-14	N/A	N/A				
	Flue gas temperature at nominal heat output	226 °C		215 ℃				
	Mechanical resistance to carry a chimney		NPO	NPD				
	Nominal output		5.0kW	6.5kW				
	Room heating output		5.okW	6 gkW				
	Water heating output							
	Gross efficiency		72.5%	75,596				
	Net Efficiency		79.7%	77.2%				

Signed for and on behalf of the manufacturer by

CRAIG NUTTER

12/12/2017 (Date of issue)

(Signature)

Topstak

Esse Woodburning and Multifuel stoves supplied by Topstak

<u>www.topstak.co.uk/stoves/sto</u> <u>ves-by-brand/esse-stoves/</u>

We have an unrivalled range of chimneys, stoves, bespoke kitchens, flooring and handcrafted furniture manufactured to the highest quality.

Cowbridge Showroom

Unit 42, Vale Business Park

Llandow

Cowbridge

CF71 7PF

01446 771567 info@topstak.co.uk

Monmouth Showroom

Mayhill Industrial Estate
Staunton Road
Monmouth
NP25 3LX

01600 711710 info@topstak.co.uk