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PLEASE RETAIN



# Erin Eco Boiler Stove



## **INSTALLATION AND OPERATING INSTRUCTIONS**

*This appliance is hot while in operation and retains its heat for a long period of time after use. Children, aged or infirm persons should be supervised at all times and should not be allowed to touch the hot working surfaces while in use or until the appliance has thoroughly cooled.*

*When using the boiler stove in situations where children, aged and/or infirm persons are present a fire-guard must be used to prevent accidental contact with the stove. The fire-guard should be manufactured in accordance with BS 8423:2010.*

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## STANLEY SOLID FUEL STOVE WARRANTY

### CONDITIONS OF WARRANTY

Your Stanley Solid Fuel Stove is guaranteed against any part that fails (under normal operating conditions) as detailed in the following table with timelines specified from the date of installation of the appliance. If the unit is not installed within six months of date of purchase, the warranty will commence six months from the date of purchase.

Warranty Period	Parts Covered (Parts & Labour unless Stated)
Up to 1 Year	<ul style="list-style-type: none"> <li>• Refractory materials (supply only)</li> <li>• Rope seals, glass seals and cement seals.</li> <li>• Surface Finish on Matt black / Painted models.</li> <li>• Grates and fire bars.</li> <li>• Ceramic glass is covered for Thermal breakage (supply only).</li> <li>• Rust (if reported before installation)</li> <li>• Aesthetic Damage (provided reported on date of receipt)</li> </ul>
Up to 5 Years	<ul style="list-style-type: none"> <li>• All external castings &amp; enamel finishes (excluding impact damage or damage caused by overfiring). Pictures of damage must be submitted to WS Service Department.</li> </ul>
Up to 3 Years	<ul style="list-style-type: none"> <li>• Boiler - A Leaking Boiler Report must be conducted by an Authorised Stanley Service Engineer and submitted to WS Service Department for review.</li> </ul>

All warranty claims must be reported to the Waterford Stanley Service Department and must be submitted with the product serial number (located on the front casting), date of purchase, proof of purchase (if requested) and details of the specific nature of the problem.

The warranty is given only to the original consumer/purchaser only and is non-transferable. The appliance must be installed by a suitable qualified person and installed as per the requirements of the manual. Failure to comply with the Installation requirements or Building Regulations will void your warranty. Waterford Stanley reserve the right to replace any part due to manufacturing defect that fails within the warranty period under the terms of the warranty. The unit must be used for normal domestic purposes only and in accordance with manufacturer's operation instructions.

### LIMITS OF LIABILITY

The warranty does not cover:

- \* Special, incidental or consequential damages, injury to persons or Property, or any other consequential loss.
- \* Any issue caused by negligence, misuse, abuse or circumstances beyond Waterford Stanley's control.
- \* Any issue with wear and tear, modification, alteration, or servicing by anyone other than an authorized service engineer.
- \* Installation and operational related problems such as draught related issues external to the stove, inadequate venting or ventilation, excessive flue offsets, negative air pressure caused by insufficient burning of improper fuel.
- \* Damage caused to the unit while in transit.
- \* Enamel discolouration due to over firing, enamel damage caused by impact, damage to baffles caused by over firing and fading of surface finish on casting.
- \* Stress fractures on bricks.
- \* Rust on cast iron parts unless reported prior to unit being installed.
- \* Aesthetic damage, rust & missing parts on units purchased off display.

**Note:** Adequate clearance must be maintained around the appliance to ensure the ease of part removal in the possible event of their damage/failure. Waterford Stanley are not responsible for any costs incurred in the removal of items installed in the vicinity of the appliance that have to be moved to facilitate a part replacement.

## INSTALLATION CHECK LIST

	Tick	<input checked="" type="checkbox"/>
<i>Flue System</i>		
1. Minimum Flue Height of 4.6 metres (15 feet).		<input type="checkbox"/>
2. Appliance should be connected to a minimum of 1.8 metres (6 feet) of 150mm (6") flue pipe.		<input type="checkbox"/>
3. The horizontal flue run should not exceed 150mm (6")		<input type="checkbox"/>
4. All flue pipework passing through walls must be sleeved & adequately insulated in line with current Building Regulations.		<input type="checkbox"/>
5. Appliance should be connected to a chimney of less than 200mm (8") in diameter (otherwise the chimney must be lined with a 6" flue liner).		<input type="checkbox"/>
6. The chimney/ flue termination must be located in accordance with building regulations part J.		<input type="checkbox"/>
7. The chimney serving this appliance should not serve any other appliance.		<input type="checkbox"/>
8. Access should be provided to the chimney serving the appliance to allow for cleaning.		<input type="checkbox"/>
9. It is a requirement by Building Regulations to have a carbon monoxide alarm fitted to any room with a solid fuel appliance.		<input type="checkbox"/>
<i>Location</i>		
10. Clearance to combustible materials must be adhered to as described in the Clearance to Combustible section.		<input type="checkbox"/>
11. The stove must be installed on a floor protector that covers the area under the stove and extends 18" to the front & 8" to the sides and back.		<input type="checkbox"/>
12. Clearance must be maintained to allow for maintenance and part replacement.		<input type="checkbox"/>
<i>Ventilation &amp; Combustion Air Requirements</i>		
13. The room in which the appliance is located should have an air vent of adequate size to support correct combustion (see Ventilation & Combustion Air Requirement Section for specific details).		<input type="checkbox"/>
14. The stove must not be installed in the same room as an extractor fan.		<input type="checkbox"/>
<i>Plumbing and Electrical Requirements</i>		
15. All plumbing and electrical work associated with the appliance must be conducted in accordance with current Building Regulations, Maintenance Instructions and Best Practice Guidelines.		



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## IMPORTANT OPERATION / MAINTENANCE NOTES

Now that your Stanley Solid Fuel Stove is installed and no doubt you are looking forward to many comforts it will provide, we would like to give you some tips on how to get the best results from your stove.

1. We would like if you could take some time to read the operating instructions/hints, which we are confident, will be of great benefit to you.
2. Do not burn fuel with a high moisture content, such as a damp peat or unseasoned timber. This will only result in a build up of tar in the stove and in the chimney.

<b>FUEL CALORIFIC VALUES - SOLID FUELS</b>		
Anthracite 25-50mm	C.V.: 8.2kWh/Kg	14,000 BTUs/lb
House Coal 25-75mm	C.V.: 7.2kWh/Kg	12,000 BTUs/lb
Timber - Firebox size	C.V.: 5.0kWh/Kg	8,600 BTUs/lb
Peat Briquettes	C.V.: 4.8kWh/Kg	8,300 BTUs/lb

3. **IMPORTANT:** The first few fires should be relatively small to permit the refractory to set properly and season the stove. During these firings it is recommended to ventilate the room as an unpleasant (not toxic) odour may be emitted as the paint is completing curement.
4. **Inspect the flue-ways of the stove weekly and ensure that there are no blockages. Check flue ways before lighting especially after a shut down period. Please see chimney cleaning section.**
5. Before loading fresh fuel into the firebox, riddle fully to remove all ashes. This will allow better and cleaner burning. See Re-Fuelling section.
6. Never allow a build up of ashes in the ash pan, as this will cause the grate to burn out prematurely. Empty the ashpan when refuelling.
7. Avoid slow burning of damp or unseasoned fuel as this will result in tarring flue ways and chimney i.e. peat or timber.
8. Allow adequate air ventilation to ensure plenty of air for combustion.
9. Do not burn rubbish/household plastic.
10. Do not operate the stove with the ash-door open as this will over heat the unit causing unnecessary damage.
11. Clean the chimney at least twice a year.
12. Burning soft fuels such as timber and peat will stain the glass. Regular cleaning will prevent permanent staining. Clean with soapy water when cool.
13. Keep all combustible materials a safe distance away from unit, please see section for clearances to combustibles.
14. Never use aerosol spray near the appliance when it is in operation.
15. For safety reasons never leave children or the elderly unaccompanied while stove is in use. Use a fire guard.
16. Avoid contact with the appliance when in use as stove reaches very high operating temperatures.

# ERIN SOLID FUEL CENTRAL HEATING STOVE INSTALLATION & OPERATING INSTRUCTIONS

## GENERAL

When installing, operating and maintaining your Erin Stove respect basic standards of fire safety. Read these instructions carefully before commencing the installation. Failure to do so may result in damage to persons and property. consult your local Municipal office and your insurance representative to determine what regulations are in force. Save these instructions for future reference.

Please note that it is a legal requirement under England & Wales Building Regulations that the installation of the stove is either carried out under Local Authority Building Control approval or is installed 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](http://www.hetas.co.uk).

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

### 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 with the skin 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.

## “IMPORTANT WARNING”

This stove must not be installed into a chimney that serves any other heating appliance.

The complete installation must be done in accordance with current Standards and Local Codes. It should be noted that the requirements and these publications may be superseded during the life of this manual.

*Please refer to the current standards, BS EN 15287-1:2007 Design, Installation and Commissioning of chimneys. BS EN 14336:2004: Heating Systems in Buildings. Installation & Commissioning of Water Based Heating Systems. BS EN 12828: 2003; Heating Systems in Buildings. Design of Water Based Heating Systems. BS EN 12831: 2003; Heating Systems in Buildings. method for calculation of the design heat load.*

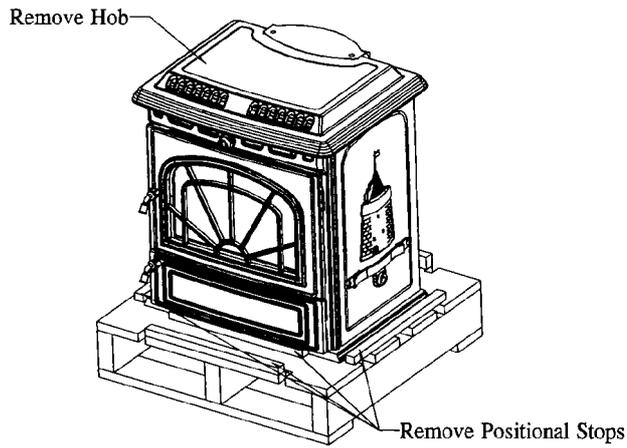
Your Erin stove is supplied with the following items:

- Legs
- Ashtray
- Hob Filler Piece
- Ashpan
- Poker
- Fire Fence
- Baffle Plate
- Glove
- Baffle Support
- Operating Tool
- Top Flue Blank Plate
- D Shaft Connector
- Control Shaft
- Fire Door Handle (Assembled) See Fig. 1
- Ashdoor Handle & Spigot (Assembled) See Fig. 1

## PRE INSTALLATION ASSEMBLY

- (A) After removing the outer box from over the stove, open the fire door first and then the ashpit door.
- (B) Remove the contents from the firebox and also remove the ashpan and its contents.
- (C) Remove loose fitting hob and place on a non abrasive surface.
- (D) Remove position stops from the pallet, where applicable making sure that any nails that may damage the stove are removed or hammered below the surface using hammer and punch. (See Fig.2)

Fig.2

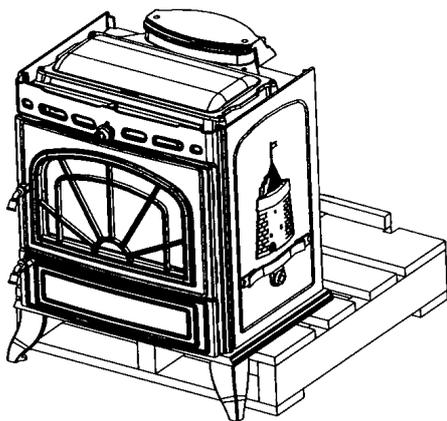


(E) Manoeuvre the stove so that it overlaps the pallet by no more than 80mm.

(F) Remove the two transport screws from the front leg positions and fit the legs using the M10 x 20mm hex head bolts. See Fig. 3 & 4.

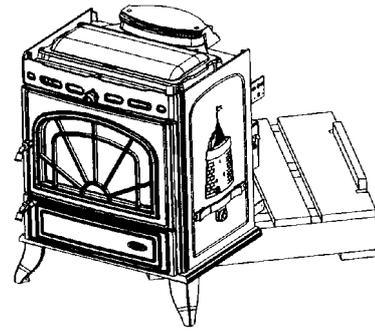
Fig.3

Fig.4



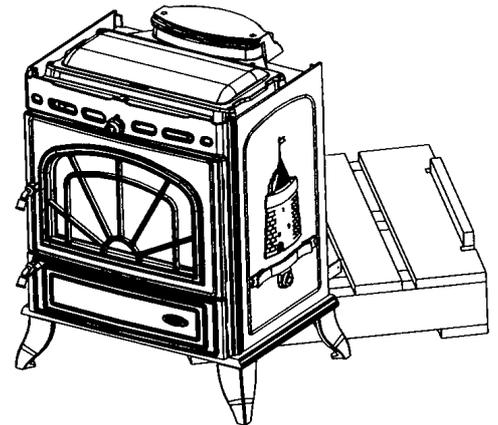
(G) Lift the rear of the stove and manoeuvre the pallet into the position in Fig.5, where the rear leg positions are accessible and the stove rests on the pallet in the centre at the back and on the two front legs.

Fig.5



(H) Repeat step (F) for fitting of rear legs. See Fig.6

Fig.6



(I) Lift rear of stove and remove pallet.

(J) Fit the ashtray with the two 3/4" x 1/4" (20mm x 6mm) screws provided. Tighten all screws. See Fig.7.

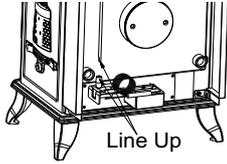
Fig.7

## CONTROL ROD ASSEMBLY

**Note:** It is recommended that the installation is complete prior to fitting the thermostat control rod and knob

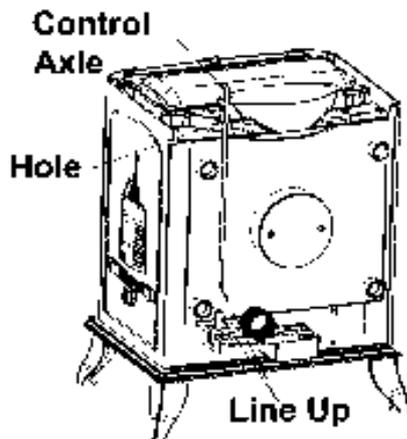
**A** Fit the D connector to the thermostat as shown in Fig. 8

Fig.8



**B** Pass the control shaft through the control rod bracket & connect to the D connector, see Fig. 10

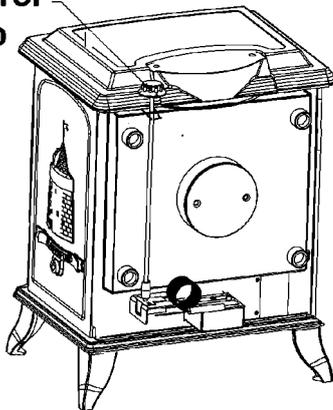
Fig.10



**C** Fit the thermostat knob to the control shaft, see Fig. 11.

Fig.11

**Push Fit  
Control  
Knob**



## DOOR HANDLE ASSEMBLY

Attach the short timber handle to the ashpit door using the M8 x 70mm long round head screw and the spring washer. Attach the long timber handle to the fire door using the M8 x 90mm long round head screw and spring washer. See Fig.7.

Fig.12

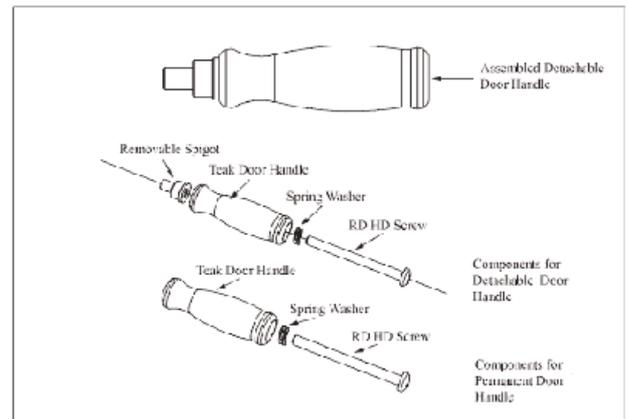
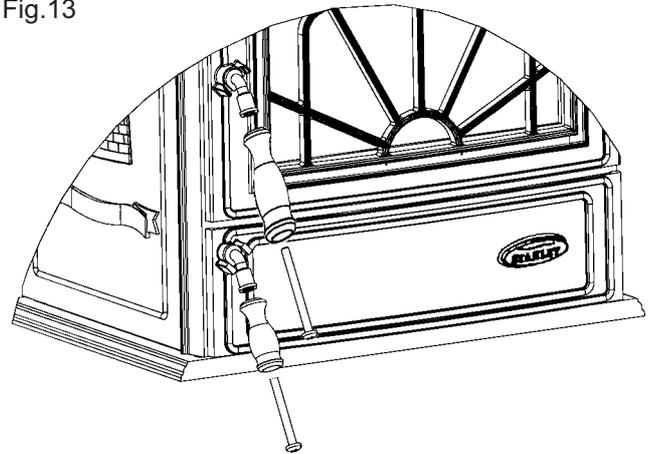


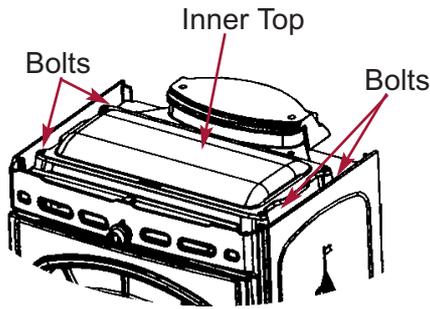
Fig.13



## BAFFLE FITTING INSTRUCTIONS

- A.** Remove the inner top by removing the 4 bolts. See Fig.14.

Fig.14



- B.** Locate the “V” shaped brackets welded to the sides of the boiler and lay the wide end of the baffle plate into the brackets. See Fig.15 & Fig.16.

Fig.15

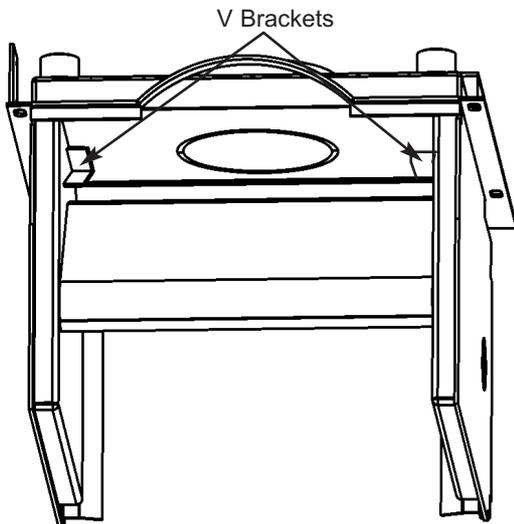
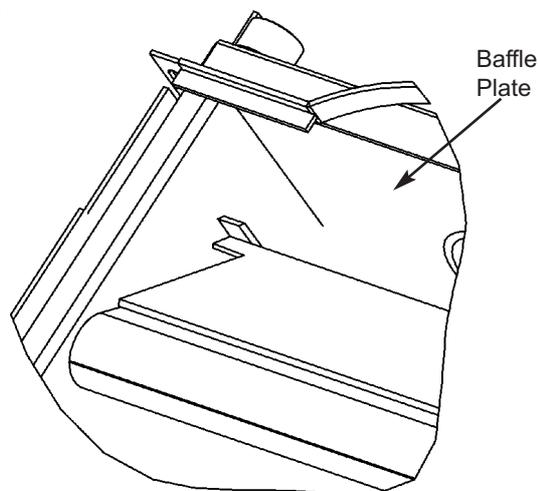
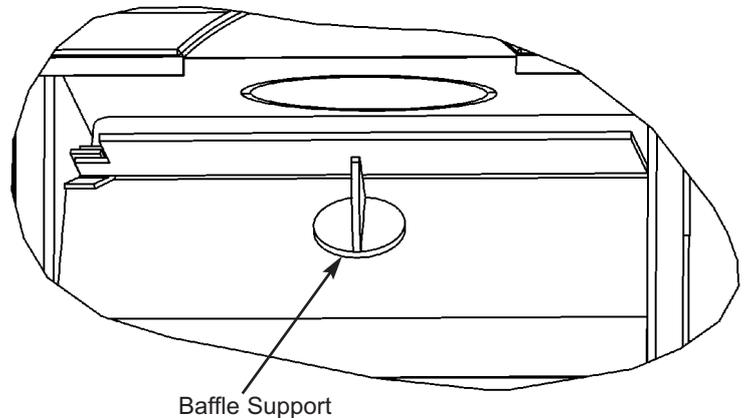


Fig.16



- C.** Lift the top edge of the baffle plate and place the baffle support on the boiler cross tank with the pointed end facing up. Push the support down which will push the baffle back into position. See Fig.17

Fig.17



## ELECTRICAL CONNECTIONS

The installation of any electrical services during the installation of this stove must be carried out by a registered competent electrician and in accordance with the requirements of the latest issue of BS 767.

## FLUES

Flues should be vertical wherever possible and where a bend is necessary, it should not make an angle of more than 45° with the vertical. Horizontal flue runs should be avoided except in the case of a back outlet from the appliance, when the length of the horizontal section should not exceed 150mm.

## CHIMNEY

**Do not connect to a chimney serving another appliance.**

The stove is a radiant room heater and must be connected to a chimney of the proper size and type.

The chimney must have a cross-sectional area of at least 30 square inches 19350sq. mm or a diameter of at least 6” (150mm). It is best to connect to a chimney of the same size, as connection to a larger size may result in a somewhat less draught.

A flue that has proved to be unsatisfactory, particularly with regard to down draught should not be used for venting this appliance until it has been examined and any faults corrected. An existing masonry chimney should be inspected and if necessary repaired by a competent mason or relined using an approved lining system.

The stove must be connected to a chimney with a minimum continuous draught of 0.06 w.g. Poor draught conditions will result in poor performance.

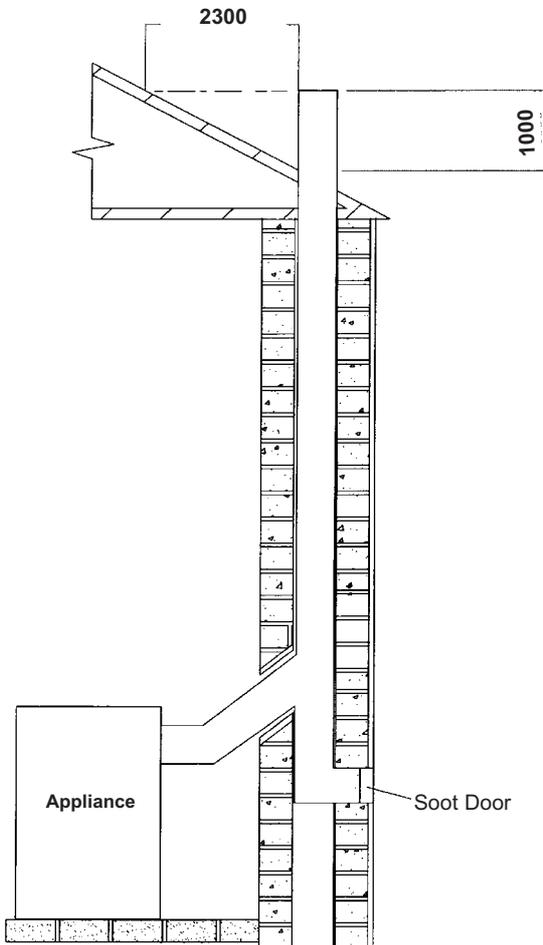
All register plates, restricter plates, damper etc., which could obstruct the flue at a future date should be removed before connecting this appliance.

If connecting to an existing chimney with a flue diameter of more than 8" it is recommended to line the flue using a suitable stainless steel flue liner.

Where a masonry chimney is not available a proprietary type of 6"/150mm - twin wall, fully insulated pipe may be used. The pipe must terminate at a point not lower than the main ridge of adjacent outside obstructions. With such installation, access to the chimney must be provided for cleaning purposes.

A chimney / flue termination must be located to minimise wind effects, a basic guide is that the distance from the termination to the roof should be at least 2300mm when measured horizontally and at least 1000mm when measured vertically, (see Fig.18). In circumstances where there are adjoining buildings/ structures/ roof openings there are additional requirements, please refer to building regulations part J.

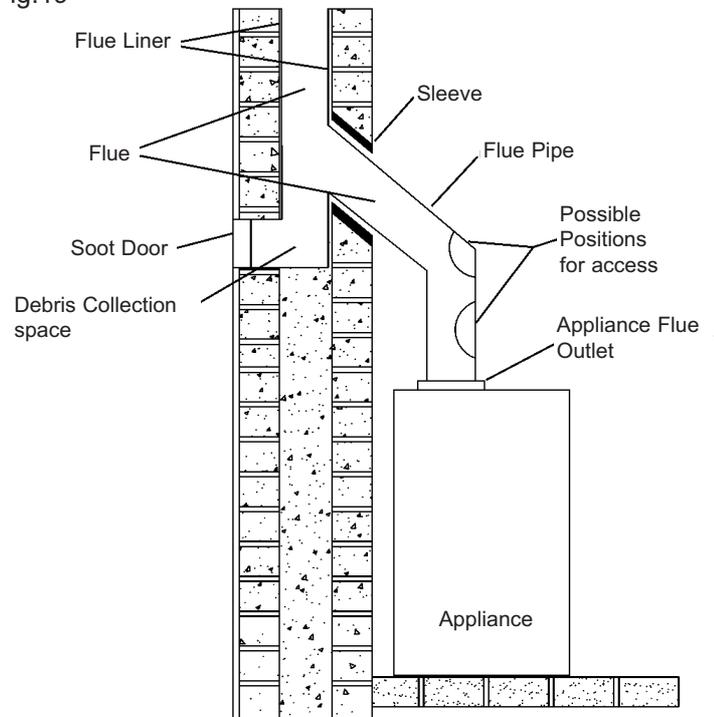
Fig.18



### FLUE EXIT (TOP & REAR)

The stove is designed to allow the chimney to be cleaned through the stove. If the chimney cannot be cleaned through the stove it is necessary to provide a soot box/access door in the flue for cleaning. See Fig.19 for recommended locations. Fit it to the stove as shown in Fig.19.

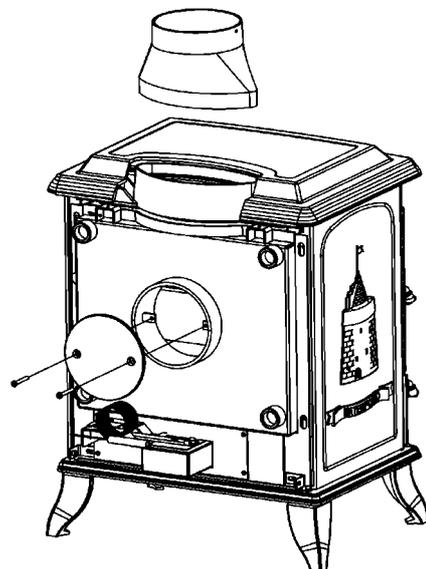
Fig.19



### TOP FLUE EXIT

Take the flue spigot ( optional extra ) and before fitting it to the stove place a small amount of fire cement on the inside flange of the outlet and push the flue spigot into place making sure the spigot is properly sealed to the stove. Remove any excess cement from the inside of the flue spigot to prevent obstruction of the flue way. See Fig.20.

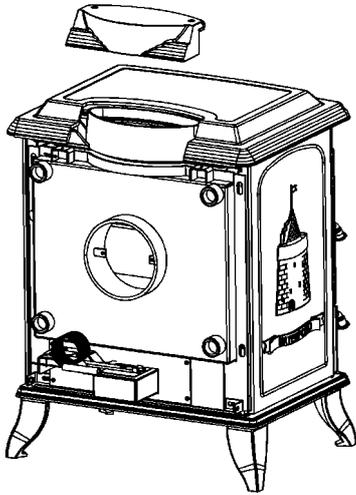
Fig.20



## REAR FLUE EXIT

Fit the top cover plate to the stove with the two screws holding on the rear exit cover plate making sure that the sealing rope is properly seated on the stove flue outlet. Tighten screws. See Fig.21.

Fig.21

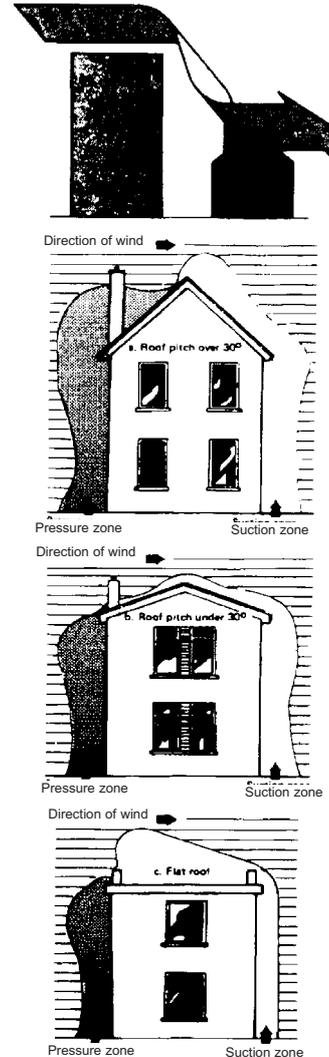


### DOWN DRAUGHTS

However well designed constructed and positioned, the satisfactory performance of the flue can be adversely affected by down draught caused by near-by hills, adjacent tall buildings or trees. These can deflect wind to blow directly down the flue or create a zone of low pressure over the terminal.

A suitable terminal or cowl will usually effectively combat direct down blow but no cowl is likely to prevent down draught due to a low pressure zone. (See Fig.22)

Fig.22



### VENTILATION & COMBUSTION AIR REQUIREMENTS

It is imperative that there is sufficient air supply to the stove in order to support correct combustion. The air supply to this appliance must comply with current Building Regulations Part J, Heat Providing Appliances. If another appliance is fitted in an adjacent room it will be necessary to calculate an additional air supply.

The minimum effective air requirement for this appliance is 67cm<sup>2</sup>. When calculating combustion air requirements for this appliance use the following equation:

550mm<sup>2</sup> per each kw of rated output above 5kw should be provided, where a flue draught stabiliser is used the total free area shall be increased by 300mm<sup>2</sup> for each kw of rated output.

#### NOTE:

There must not be an extractor fan fitted in the same room as the stove as this can cause the stove to emit smoke and fumes into the room.

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All materials used in the manufacture of air vents should be such that the vent is dimensionally stable, corrosion resistant, and no provision for closure.

The effective free area of any vent should be ascertained before installation. The effect of any grills should be allowed for when determining the effective free area of any vent.

Air vents should be positioned so that they are not liable to blockage.

Air vents direct to the outside of the building should be located so that any air current produced will not pass through normally occupied areas of the room.

An air vent outside the building should not be located less than the dimensions specified within the Building Regulations and B.S. 8303: Part 1 from any part of any flue terminal. These air vents must also be satisfactorily fire proofed as per Building Regulations and B.S. 8303: Part 1.

Air vents in internal walls should not communicate with bedrooms, bedsits, toilets, bathrooms or rooms containing a shower. Air vents traversing cavity walls should include a continuous duct across the cavity. The duct should be installed in such a manner as not to impair the weather resistance of the cavity.

Joints between air vents and outside walls should be sealed to prevent the ingress of moisture. Existing air vents should be of the correct size and unobstructed for the appliance in use.

If there is an extraction fan fitted in adjacent rooms where this appliance is fitted, additional air vents may be required to alleviate the possibility of spillage of products of combustion from the appliance/flue while the fan is in operation. Refer to B.S. 8303 Part 1.

Where such an installation exists, a test for spillage should be made with the fan or fans and other appliances using air in operation at full rate, (i.e. extraction fans, tumble dryers) with all external doors and windows closed.

If spillage occurs following the above operation, an additional air vent of sufficient size to prevent this occurrence should be installed.

### ***Especially Airtight Properties:-***

If the stove is being fitted in a property where the design air permeability is less than  $5\text{m}^3 / (\text{h.m}^2)$  (normally newer properties built from 2006), then a permanent ventilation must be fitted to provide  $550\text{mm}^2$  of ventilation for each kW of rated output. If a draught stabiliser is also fitted then the requirement is  $850\text{mm}^2$  per kW of rated output.

### **EXTERNAL DUCTED AIR**

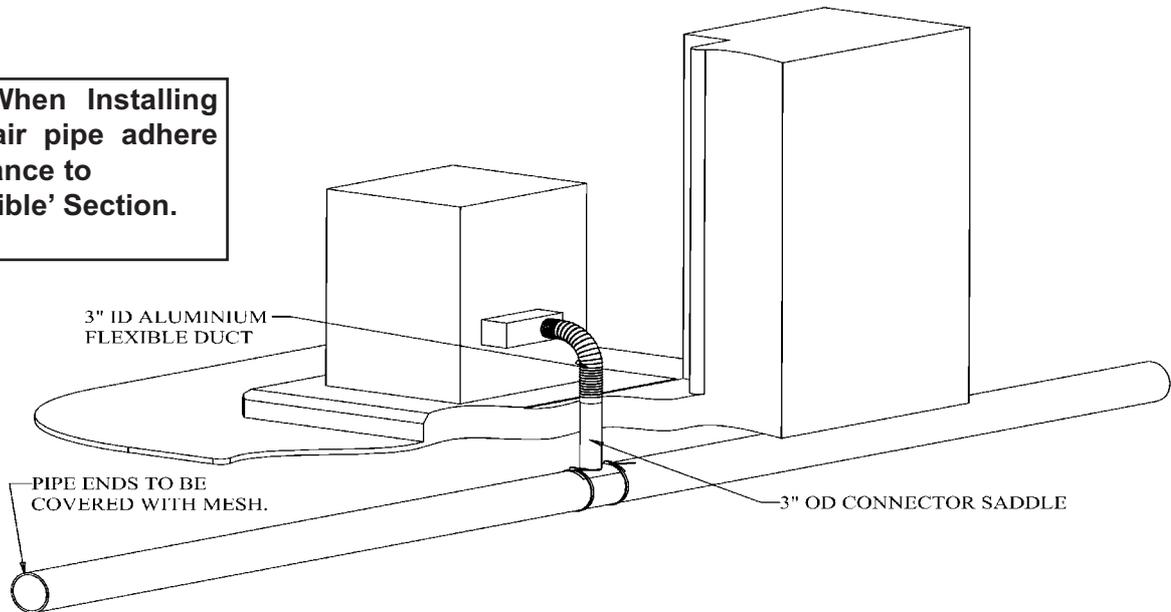
An outside air kit complete with primary air supply can be ducted from outside and is available to order for connection to the stove.

It is recommended to bring the air supply for the stove into the house using a 4" plastic pipe. Where the pipe meets the outside wall make sure a vent cover is fitted properly to ensure no rodents can enter via the vent pipe.

The vent pipe should be located to prevent the ingress of moisture and in a location where it will not get blocked with leaves or any other debris. As wind effects can create suction and pressure zones on opposite sides of the dwelling it is recommended to run the air vent from opposite poles (North, South, East & West) of the dwelling and tee off for the air supply to the stove. This should negate the effect of suction and pressure zones. See Fig.23.

Fig.23

**Note: When installing outside air pipe adhere to 'Clearance to Combustible' Section.**



## HEAT RECOVERY VENTILATION

Where a stove is to be installed in a dwelling with *Heat Recovery Ventilation* (HRV) a number of precautionary measures must be undertaken:

Should for example the delivery fan in the HRV unit fail and the extraction fan in HRV fan continue to run the HRV may create a pressure less than atmospheric, this low pressure will effect the flue pressure which is required to safely evacuate the products of combustion from the stove.

1. Fit an adequately sized vent in the room to prevent pressure less than atmospheric occurring. The size should be established by closing all windows and doors and then creating the possible failure situation. Then open a window in the room where the stove is fitted, slowly until the pressure reaches atmospheric. The size of the window opening should be measured and a vent of the corresponding size installed.
2. Fit a CO Alarm which has been approved to EN 50291.

## LOCATION

There are several conditions to be considered in selecting a location for your Stanley Erin Stove.

- a. Position in the area to be heated, central locations are usually best.
- b. Allowances for proper clearances to combustibles.
- c. Allowances for proper clearances for maintenance work.

## CLEARANCE TO COMBUSTIBLES

**Maintain at least the following clearances to all combustible material:**

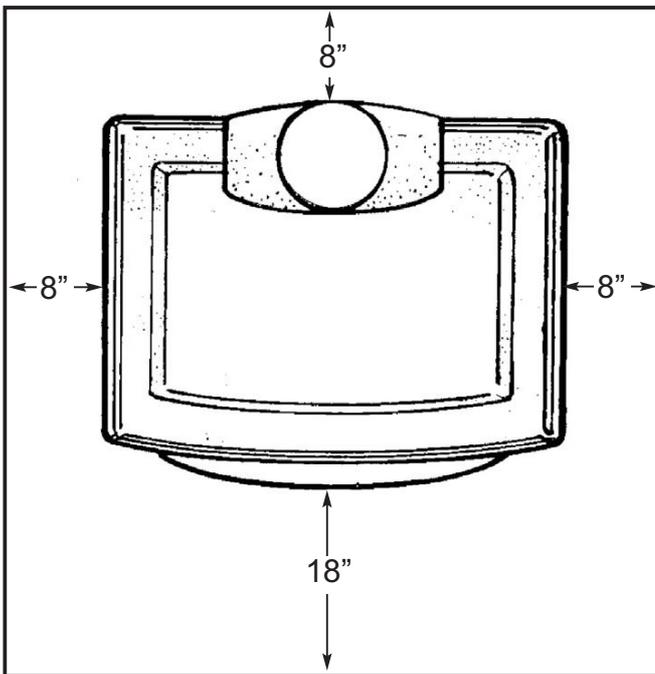
From the front	910 mm (36")
From the back	100 mm (4")
From the sides	100 mm (4")
From the flue pipe	910 mm (36") straight up only

It is recommended that this appliance is sited next to and on a non-combustible surface. A minimum all round clearance of 150 mm will allow air circulation and not impede the performance of the stove.

## FLOOR PROTECTION

When installing this heater on a combustible floor, a floor protector, consisting of a layer of non combustible material at least  $\frac{3}{8}$ " (10mm) thick or  $\frac{1}{4}$ " (6mm) thick covered with  $\frac{1}{8}$ " (3mm) sheet metal. It is required to cover the area under the heater and to extend to at least 18" (460mm) at the front and 8" (200mm) to the sides, and rear, this will provide protection from sparks and embers which may fall out from the door when stoking or fuelling, See Fig. 24

Fig.24



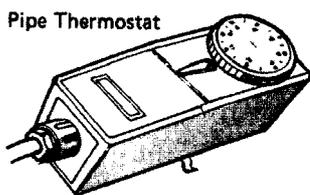
**PLUMBING**

**PIPE THERMOSTAT**

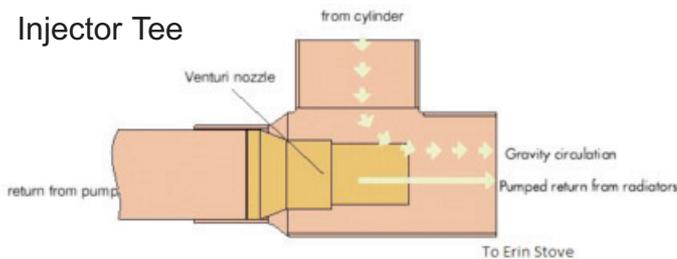
The fitting of a pipe thermostat to the flow pipe is essential in order to activate the water circulation pump when the water reaches the selected temperature.

When the water temperature falls below the selected temperature the pipe thermostat will cut off the water circulation pump in order to allow the boiler to recover.

Fig.25



**Injector Tee**



**REGULATIONS**

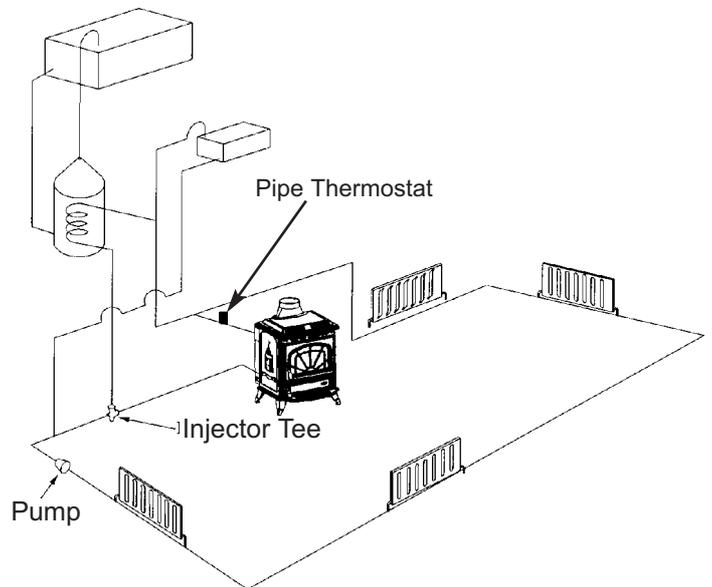
The plumbing must be in accordance with all relevant regulations and practices. It must include a gravity circuit with expansion pipe, open to the atmosphere. The central heating will normally be pump-driven as with other types of boilers.

**GRAVITY CIRCUIT**

The gravity circuit consists of the domestic hot water tank of 135 litres indirect cylinder, fixed in an upright position, recommended for hot water storage and it should be connected to the boiler by 28mm diameter flow and return piping. The pipes should not exceed 7.8 meters (25ft) in length and cylinder and pipework should be fully lagged. The shorter the run of pipe work the more effective the water heating. There must be no gate valves on this circuit and it must have an expansion pipe exhausting to atmosphere. Cylinder and pipe work should be lagged to minimise heat loss.

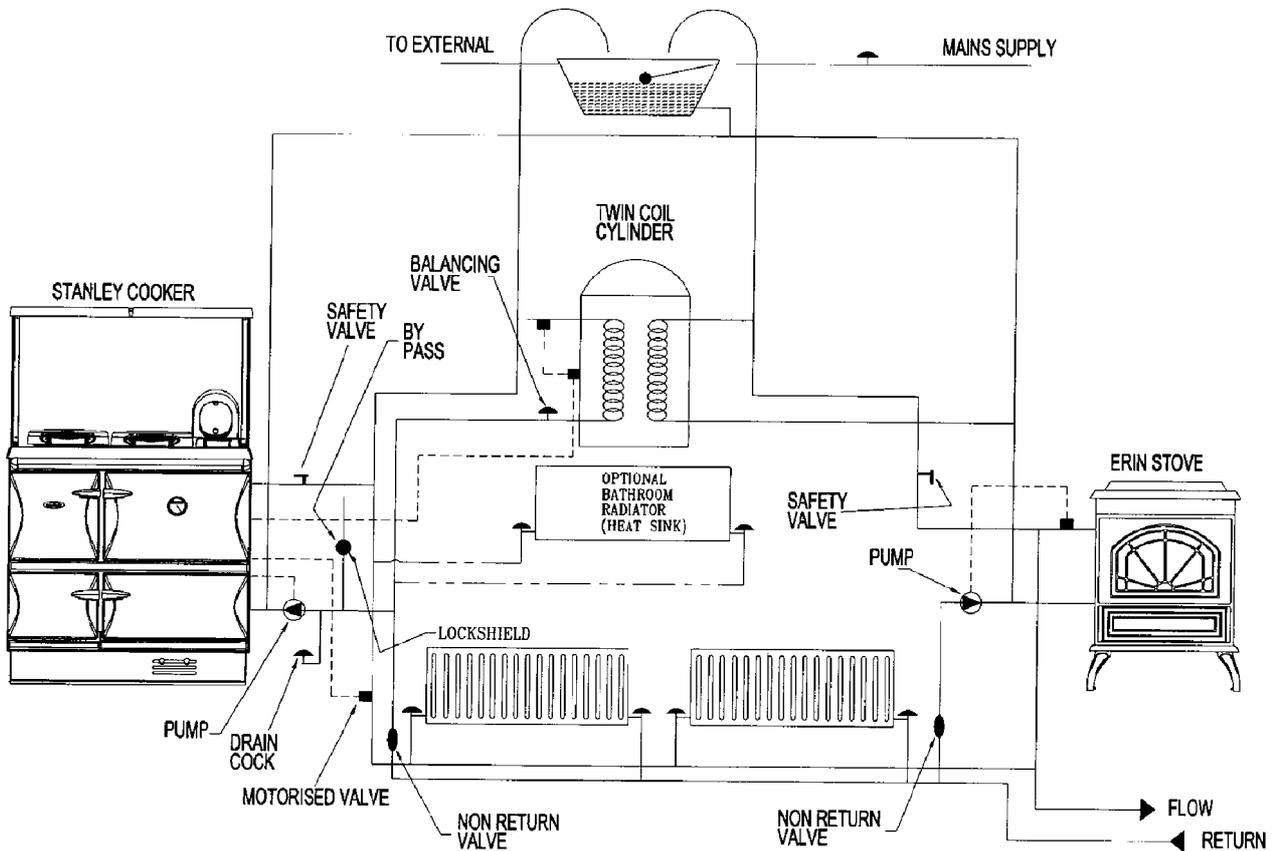
Fig. 26 illustrates the basic principal of water heating systems and must not be regarded as a working drawing.

Fig.26



**INJECTOR TEE**

Where the gravity and central heating circuits join together to return to the stove we recommend the use of an injector tee connection, situated as close to the unit as possible. This type of tee encourages a stable flow of hot water through both circuits and helps to prevent priority being given to the stronger flow, which is most commonly the pumped central heating circuit. This way, there will be no shortage of hot water to the taps when the heating is on. Where the appliance is to be interlinked with another boiler it will be necessary to use a double feed indirect cylinder in accordance with BS 1566. (See Fig 27 for an illustration)



### WATER CIRCUIT TEMPERATURE

The return water temperature should be maintained at not less than 40°C so as to avoid condensation on the boiler and return piping. Fitting a pipe thermostat to the flow pipe of the gravity circuit and wiring it into the pump control will ensure rapid circulation of the hot water.

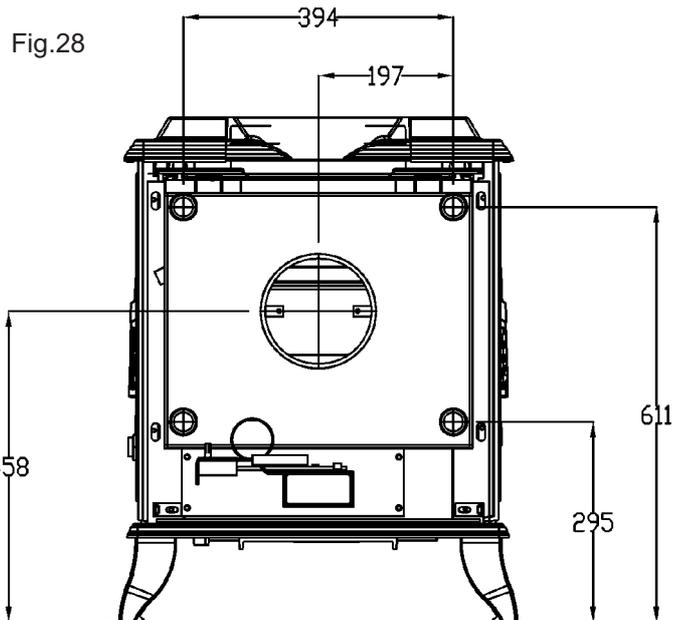
In some circumstances it may be possible to over-heat the appliance and the water inside will boil. This will be evident by the sound of a knocking noise coming from the appliance and pipes around the house. If this occurs close off all air controls and manually start the central heating pump if fitted. One radiator on the heating circuit should be uncontrolled to act as a heat leak in the event that the appliance overheats and has nowhere to discharge a build up of hot water should the heating circuit be satisfied. Be aware that steam and boiling water will be expended from any open vent from the heating system probably in the roof space at the expansion tank.

In the unlikely event that the appliance is not operating in freezing conditions the water must be drained from the boiler to prevent frost damage.

### FLUE & WATER PIPE LOCATIONS

Flue outlet to suit 152mm (6") internal diameter flue pipe.

Water outlets 25mm (1") B.S.P.



**WARNING: DO NOT OBSTRUCT PRIMARY AIR SUPPLY TO THE AIR DUCT.**

## STOVE DIMENSIONS

Fig.29

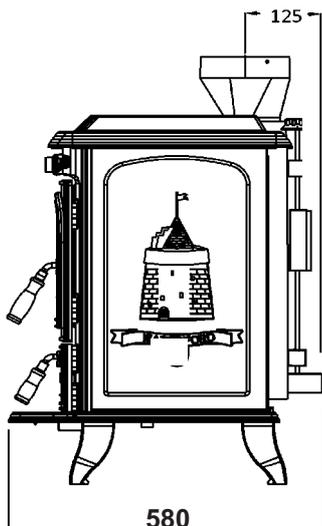
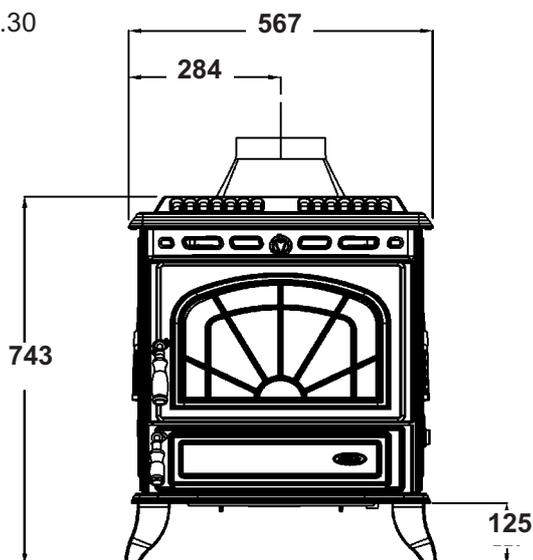


Fig.30



**WARNING: DO NOT OBSTRUCT PRIMARY AIR SUPPLY TO THE STOVE**

**Note:** Dimensions stated are in millimetres unless otherwise stated and may be subject to a slight +/- variation.

### COMMISSION AND HANDOVER

On completion of the installation allow a suitable period of time for any fire cement and mortar to dry out, when a small fire may be lit and checked to ensure the smoke and fumes are taken from the stove up the chimney and emitted safely to the atmosphere. **Do not run at full output for at least 24 hours.**

Ensure that the operating instructions for the stove are left with the customer. Ensure to advise the customer on the correct use of the appliance with the fuels likely to be used on the stove and warn them to use only the recommended fuels for the stove.

Advise the user what to do should smoke or fumes be emitted from the stove. The customer should be warned to use a fireguard to BS 8423:2010 in the presence of children, aged and/or infirm persons.

### OPERATION

Check that all dampers and catches are operating correctly and ensure that all flue connections are thoroughly sealed.

### AIR CONTROLS

The stove has two independent air controls:

1. The thermostat knob (See Fig. 31 & 32) which controls the primary air. Rotate clockwise to open and anticlockwise to close.
2. The secondary air control which is located above the fire door (See Fig.31). Turn anticlockwise to open and clockwise to close (See Fig. 33)

Fig.31

**Secondary Air Knob**      **Primary Air Thermostat Knob**

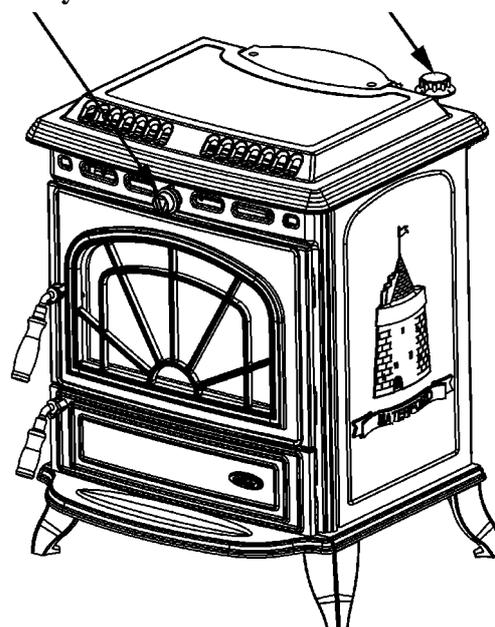


Fig.32

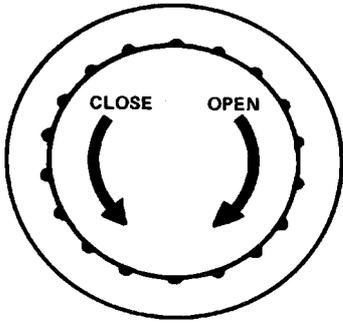


Fig.33



The secondary air control knob is hot when the appliance is in use. The glove provided can be used to operate this knob or use the glove provided.

**NOTE:-**

A boiler model stove will provide heat into the boiler and also to the room in which it is situated. The heat to room is in a fixed relationship with the heat to the boiler.

The heat to the boiler is controlled by the air supply to the stove which is required to have a thermostatic damper for safety reasons. When the temperature of the water in the boiler exceeds 55 °C the thermostatic damper will begin to shut off the air supply, should the water temperature continue to rise the thermostatic damper will continue to close and if the water temperature reaches 85 °C the thermostatic damper closes the primary air supply fully.

In the event where a stove is fitted to a central heating system which is undersized in relation to the nominal heat output to boiler then the stove will operate satisfactorily but will be unable to achieve the nominal heat output to room as the thermostatic damper will shut off the air supply to prevent an overheat situation in the boiler.

**For example:-** Where a stove provides 2kW to the room and 8kW to the boiler and if the thermostatic damper shuts down the air supply to provide 4kW to the boiler, then the heat to room will decrease proportionally to 1kW.

**RECOMMENDED FUELS**

**All fuels should be stored under cover and kept as dry as possible prior to use.**

This appliance has been tested using seasoned manufactured briquetted smokeless fuel (Ancit) for closed appliances, sized between 20g and 140g. Other fuels are commercially available and may give similar results. All fuels should be stored under cover and kept as dry as possible prior to use.

Do not use fuels with a Petro-coke ingredient as this may cause the grate to overheat, causing damage. Reduced outputs will result when fuels of lower calorific values are used. Never use gasoline or gasoline type lantern fuel, kerosene, charcoal lighter fluid or similar liquids to start or freshen up a fire in this heater. Keep all such liquid well away from the heater at all times. Operate the stove only with the fuelling door closed except for re-fuelling.

This stove has obtained HETAS Ltd approval for burning natural and manufactured smokeless fuels and wood logs only as detailed in recommended fuels below. HETAS Approval does not cover the use of other fuels either alone or mixed with the recommended fuels listed, nor does it cover instructions for the use of other fuels.

<b>TECHNICAL DATA</b>	
<b>Fuel:</b>	<b>Anthracite</b>
<b>Nominal Heat Output: (kW)</b>	11.8
Output to Water / Room	8.1 / 3.7
<b>Efficiency at Nominal Heat Output: (%)</b>	79.2
<b>Mean Flue Gas Temperature: (°C)</b>	253
<b>Flue Gas Mas Flow: (g/s)</b>	11
<b>Mean CO emission (at 13% O2), %</b>	0.10
<b>Mean NOx emission (at 13% O2), mg/Nm3</b>	175
<b>Mean HxCy emission (at 13% O2), mg/Nm3</b>	69
<b>Particulates emission (at 13% O2), mg/Nm3</b>	16
<b>Log Length - Max.: (cm)</b>	36
<b>Flue Outlet:</b>	Top & Rear
<b>Flue Pipe Dimension- (mm)</b>	150
<b>Boiler Capacity- (litres)</b>	9.3
<b>Weight [Approx.]: (kg)</b>	180
<b>Recommended Chimney Draught: (PA)</b>	12
<b>Operational Mode:</b>	* Intermittent
This appliance has been tested in accordance with BS EN 13240	

Product Fiche in accordance with COMMISSION DELEGATED REGULATION (EU) 2015/1186							
Model	Energy Efficiency Class	Heat Output to Room	Heat Output to Water	Energy Efficiency Index	Preferred Fuel	Nominal Heat Output	Net Efficiency
Erin Eco	E	3.7	8.1	69.2	Anthracite	11.8	79.2

## **USER INSTRUCTIONS**

### **LIGHTING THE STOVE**

Before lighting the stove check with the installer that the installation work and commissioning checks described in the installation instructions have been carried out correctly and that the chimney has been swept clean, is sound and free from any obstructions. As part of the stove's commissioning and handover the installer should have demonstrated how to operate correctly.

1. Open firedoor and open the primary air inlet by turning the control knob, adjacent to the top flue outlet, in a fully clockwise direction
2. Open the secondary air inlet by turning it anti-clockwise.
3. Cover the grate with crumpled pieces of paper and lay 10-12 pieces of kindling on top of the paper towards the back of the firebox.
4. Ignite and close the fire door.
5. When the kindling is well alight open the fire door and add larger kindling to sustain the fire.
6. Close the fire door.
7. When a hot fire bed is established add the normal fuel.
8. When well lighted, adjust the controls to give the required heat output.

## RE-FUELLING

Before opening the door, turn the thermostat knob fully clockwise as this will help to eliminate any smoke or fly ash resident in the combustion chamber. Use Glove supplied. Riddle the fire using the poker. Add fuel to fire, close the fire door and reset the thermostat knob to the required setting.

## SLOW BURNING

Slow burning will cause the window glass to blacken and should not be used for a long period. It should only be done after the fire has been established and been running at nominal output for a period of time. For a prolonged show burn, fill the firebox with fuel up to the maximum height just below the top of the fire fence at the front of the door opening. Close the secondary air knob fully and then find the fully closed position for the thermostat and open it very marginally from the closed position.

## DE-ASHING

When ash build-up becomes excessive in the fire chamber, open the door, using the glove provided hold the poker and riddle the fire using the poker to allow ash to fall into the ashpan.

## DISPOSAL OF ASHES

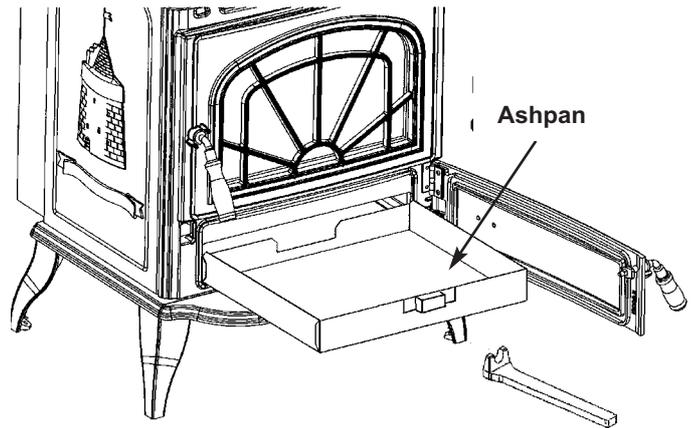
Your stove is provided with a steel ashpan. This ashpan should be emptied every day.

If ashes are allowed to build to grate level you could damage the firebars by overheating. We recommend that you remove ashes after you have riddled the fire following overnight burn.

Ashes should be placed in a metal or other non-combustible container with a tight fitting lid. The closed container of ashes should be placed on a non-combustible material, pending final disposal. If ashes are buried in soil, or otherwise dumped they should be retained in the closed container until they are thoroughly cooled. Open the ashdoor and remove the ashpan using the tool provided, see Fig. 35. Close the ashdoor. When the ash is disposed of replace the ashpan.

## REMEMBER COAL GASES ARE TOXIC

Fig.35



Replace ashpan. Close ashpit door

## MONTHLY MAINTENANCE

### *Cleaning Stove Flue Pathways*

It is recommended that the flue pathways in the stove are cleaned on a monthly basis (or less depending on the soot build-up created by the fuel being used) and the chimney cleaned annually.

To access the flue pathways, lift off the hob and remove the firebox cover by loosening the four fixing screws (see Fig. 37). Remove the baffle nut and bolt fixings and clean out the firebox chamber (See Fig.36). Remove the boiler cleaning plate to remove all ash and soot debris from the back of the boiler. Replace all the constituent parts ensuring that the rope seal is fitted correctly before replacing the fire box cover.

Fig.36

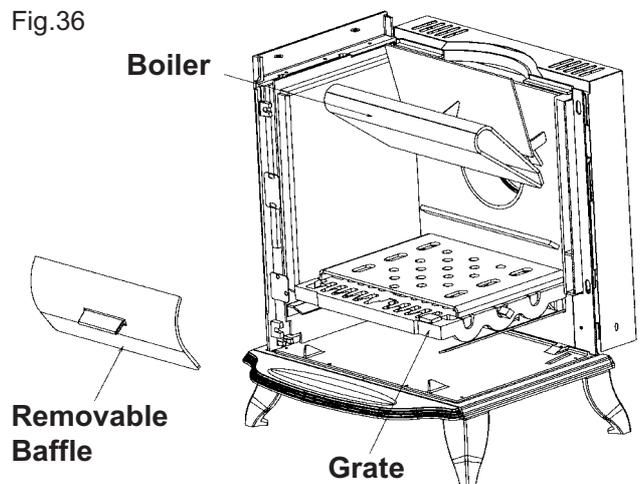
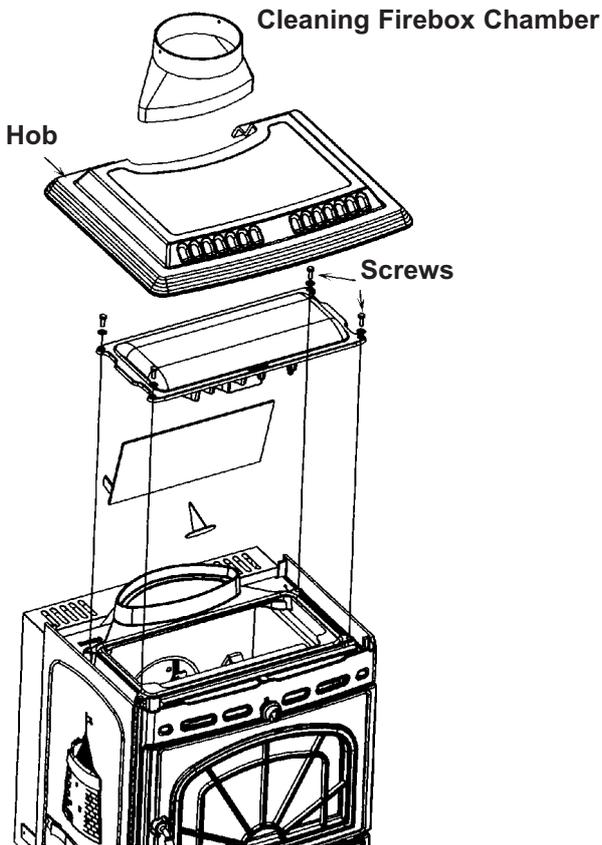


Fig.37



## PERIODIC MAINTENANCE

### ADJUSTING THE DOOR CATCH

Over time, the fire door latch can loosen due to the door rope becoming more compressible. To adjust the tightness of the door catch simply open the door and rotate the complete mechanism 360 degrees in an anticlockwise direction. The door handle axle is on a screw thread within the door and this will thus mean that the door rope will be further compressed with a tighter seal.

### CHIMNEY CLEANING

The chimney should be cleaned twice annually or if the stove is not used for a prolonged period during the summer period, it should be cleaned prior to commencement of usage. The flue liner should be cleaned in accordance with manufacturer's instructions. Always use a brush with plastic bristles that is the correct size to reach all areas of the flue.

## GLASS CLEANING

The stove glass will self-clean when there is sufficient heat generated by the burning fuel i.e. when the unit is operated at the maximum air settings. If a build-up of creosote occurs on the glass it may be due to low draft conditions, poor quality fuel or operating the stove at the minimum air settings for long periods of time. The glass should be cleaned when cool and cleaned with a non-abrasive cloth using warm soapy water. For stubborn deposits, a grade 0 steel wool can be used whilst taking care not to scratch the glass with any coal/ash deposits.

## FROZEN SYSTEM

If there is any possibility that the water system may be frozen do not attempt to light the stove until you are certain there is no ice in the system possibly causing a blockage.

## PROLONGED PERIODS OF NON USE

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.

### WARNING NOTE:

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

- (a) Open doors and windows to ventilate room.
- (b) Let the fire out or eject and safely dispose of fuel from the stove.
- (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.

The most common cause of fume emission is flue-way or chimney blockage. For your own safety these must be kept clean at all times.

## FIRE SAFETY

To provide reasonable fire safety, the following should be given serious consideration.

1. Do not over fire the stove.
2. Over-firing will also damage painted or enamel finish.
3. Install a smoke detector in the room.
4. A conveniently located class A fire extinguisher to contend with small fires resulting from burning embers.
5. A practical evacuation plan.
6. A plan to deal with a chimney fire as follows:-
  - (a) Notify the fire department.
  - (b) Prepare occupants for immediate evacuation.
  - (c) Close all openings into the stove.

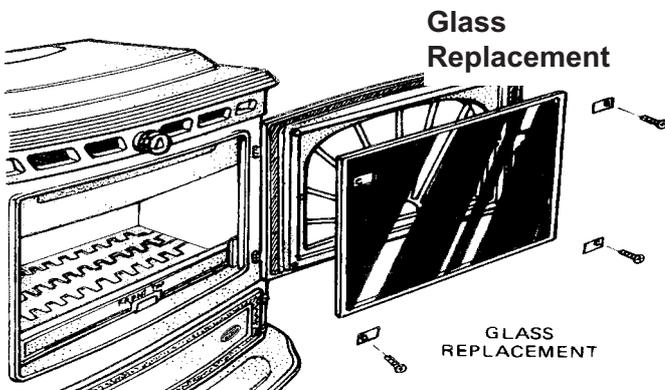
### WARNING:-

The glove supplied must be kept clean, it should not be used to handle fuel such as coal as the fine dust will pass from the coal to the glove which can then possibly smoulder or ignite should it become too hot.

## GLASS REPLACEMENT

Fig.40

- (a) Open the fire door fully.
- (b) Remove the 6 screws, four corner screws and two middle screws and clips and carefully remove the broken glass.
- (c) Clean the glass recess in the door.
- (d) Replace the sealing rope in the door if necessary.
- (e) Tighten screws.
- (f) Replace glass only with ceramic glass 5mm thick. (See Fig 40).



## CO ALARM

The fitting of CO Alarms in the same room as the appliance is a compulsory requirement under current Building Regulations. For ROI an additional CO Alarm must be fitted either inside each bedroom or within 5 metres of the bedroom door, refer to Building Regulations Part J. Further guidance on the installation of a carbon monoxide alarm is available in BS EN 50292:2002 and from the alarm manufacturers 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.**

### WARNING:-

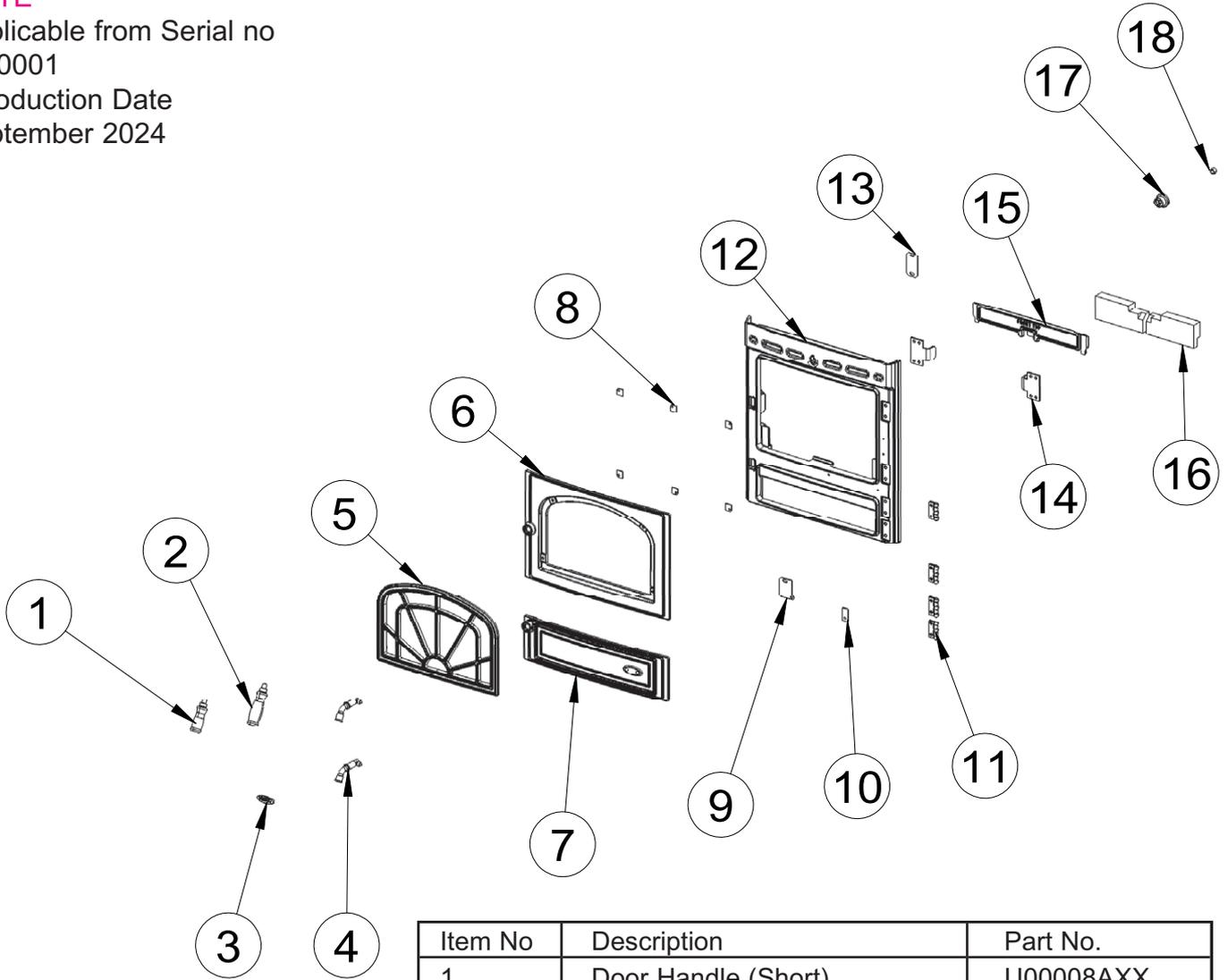
If the CO Alarm sounds unexpectedly:-

1. Open Doors and windows to ventilate the room and then leave the premises.
2. Let the fire go out.

## ERIN ECO BOILER EXPLODED VIEW

**NOTE**

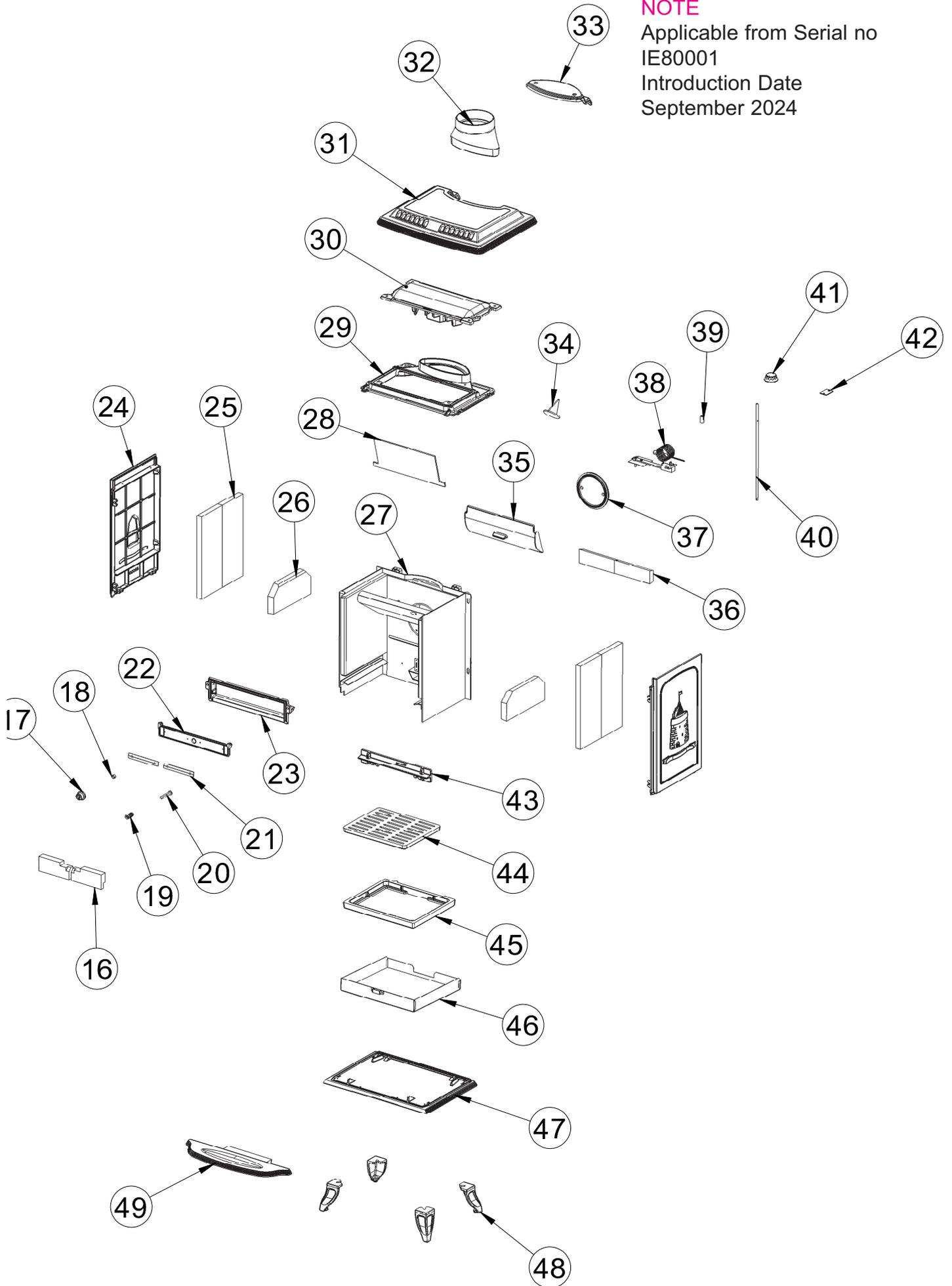
Applicable from Serial no  
IE80001  
Introduction Date  
September 2024



Item No	Description	Part No.
1	Door Handle (Short)	U00008AXX
1A	Spigot To Door Handle	V00021AXX
2	Door Handle (Long)	U00009AXX
2A	Spigot To Door Handle	V00021AXX
3	Badge	V00730BXX
4	Door Handle Axle	V02002Axx
5	Door Grill	INB00058AZZ
6	Fire Door	INB00059CZZ
7	Ashpit Door	INB00060DZZ
8	Door Glass Clip	F00003AXX
9	Lower Latch Cover Plate	F00024AXX
10	Ash Pit Door Hold Plate	V02001AXX
11	Hinge	U00153AXX
12	Front Frame	INB00069EZZ
13	Top Latch Cover Plate	F00023AXX
14	Fire Fence Retainer	F01370AXX
15	Fire Fence	INZ00003AXX
16	Front Brick Right	H00254AXX
16A	Front Brick Left	H00253AXX
17	Air Control Knob	INB00063AZZ
18	Spacer	V00033AXX

**NOTE**

Applicable from Serial no  
IE80001  
Introduction Date  
September 2024



**NOTE**

Applicable from Serial no  
IE80001  
Introduction Date  
September 2024

Item No	Description	Part No.
19	Spring	V00034AXX
20	Primary Air Control Shaft	V00027AXX
21	Plate Clamp To Gasket	F00022AXX
22	Primary Air Shutter	INQ00029AXX
23	Primary Air Box	INQ00028AXX
24	Side Panel Left	INB00066EZZ
24A	Side Panel Right	INB00065BZZ
25	Side Insulation	J00007AXX
26	Side Brick	H00245AXX
27	Boiler	INF01065AXX
28	Baffle Plate	F00923AXX
29	Inner Top	INB00553AZZ
30	Access Plate	INB00578AZZ
31	Hob	INB00057BZZ
32	Top Flue Outlet ( Optional Extra)	INB00053AZZ
33	Top Flue Blanking Plate	INB00055AZZ
34	Baffle Support	F00924AXX
35	Boiler Cleaning Plate	INQ00797AXX
36	Rear Brick	H00246AXX
37	Flue Blanking Plate	INB00064AZZ
38	Thermostat	G00001AXX
38A	Stat Plate	F01055AXX
39	D Shaft Connector	V01099AXX
40	Control Rod	V02000AXX
41	Air Control Knob	U00006AXX
42	Control Rod Bracket	F01369AXX
43	Grate Support	INQ00040BXX
44	Grate	Q00802AXX
45	Grate Frame	INQ00805AXX
46	Ashpan	F00898AXX
47	Base	INB00079CZZ
48	Leg (Short)	INB00054AZZ
49	Ashtray	INB00056AZZ
	Glass	T00003AXX
	Operation Tool	B00009AXX

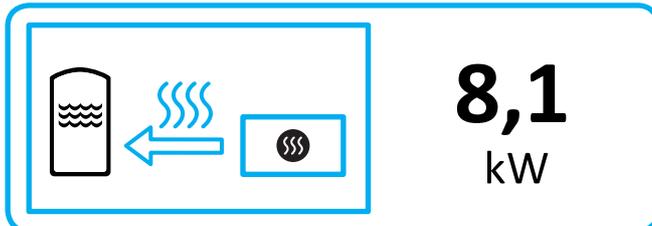
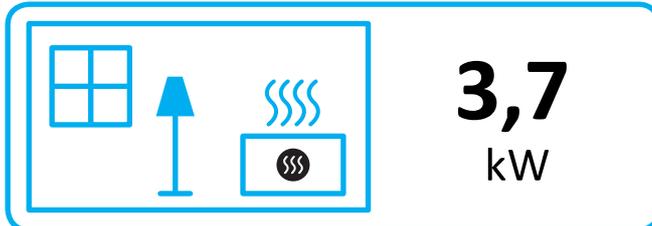


**ENERG**  
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**Stanley**

**Erin HPB Eco**



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2015/1186

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