

Reginald Boiler Solid Fuel 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 fireguard must be used to prevent accidental contact with the stove. The fireguard should be manufactured in accordance with BS 8423:2002.

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THE REGINALD SOLID FUEL CENTRAL HEATING STOVE INSTALLATION & OPERATING INSTRUCTIONS

GENERAL

When installing, operating and maintaining your Reginald 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.

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.

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 7671.

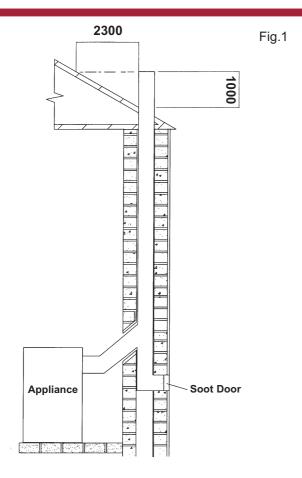
FLUES

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.

In order to minimise flue resistance and to make sweeping easier it is recommended to use $2 \times 45^{\circ}$ bends rather than a 90° bend.

The flue termination point must be located to minimise any wind effects. Wind effects of suction, pressure zones and turbulence can be created by the roof and adjacent objects. Wind effects can also be created by natural land contours.

To minimise the wind effects, the flue termination point should be located a minimum of 1000mm from the roof measured vertically and 2300mm measured horizontally. Where this termination point does not suffice it may be necessary to extend the flue pipe so that the termination point is above the apex. (See Fig.1)



FLUE PIPES

A flue pipe should only be used to connect an appliance to a chimney and should not pass through any roof space.

Flue pipes may be of any of the following materials:

- * Cast iron as described in BS 41: 1973 (1981), or
- * Stainless steel with a wall thickness of at least 1mm and as described in BS EN 10095:1999 Specification for stainless and heat resisting steel plate, sheet and strip, for Grade 316 S11, 316 S13, 316 S16, 316 S31, 316 S33, or the equivalent Euronorm 88-71 designation, or
- * Vitreous enamelled steel complying with BS 6999: 1989.

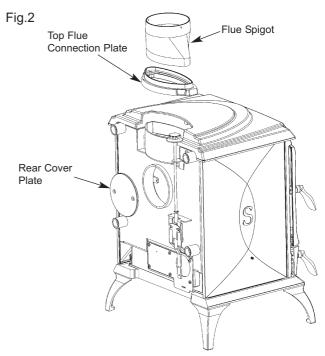
Flue pipes with spigot and socket joints should be fitted with the socket uppermost.

Clearance to combustibles must be adhered to when fitting the flue pipe.

The appliance is suitable for continuous operation on solid mineral fuel and intermittent operation on wood logs.

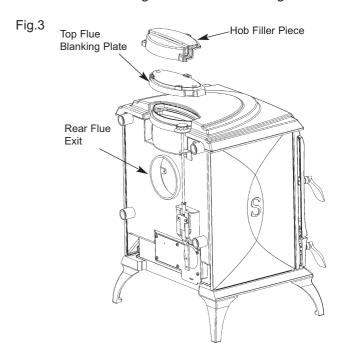
TOP FLUE EXIT

When connecting to a flue pipe it is necessary to provide an access door in the pipe for flue and chimney cleaning. It is also possible to clean the chimney through the stove. Take the flue spigot 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.2.



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.3.



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. Do not connect to a chimney serving another appliance.

In adverse weather conditions, down drafts may be experienced causing smoke or fumes to spill into the room. If this occurs shut the appliance down by closing the air controls. If the problem persists seek the advice of a chimney sweep.

In order for the stove to perform satisfactorily the chimney height must be sufficient to ensure an adequate draught of approximately 12 Pa so as to clear the products of combustion and prevent smoke problems into the room.

NOTE: A chimney height of not less than 4.5 metres measured vertically from the outlet of the stove to the top of the chimney should be satisfactory. Alternatively the calculation procedure given in EN 13384-1 may be used as the basis for deciding whether a particular chimney design will provide sufficient draught.

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.

Any existing chimney must be clear of obstruction and have been swept clean immediately before installation of the stove. If the stove is fitted in place of an open fire then the chimney should be swept one month after installation to clear any soot falls which may have occurred due to the difference in combustion between the stove and the open fire.

If there is no existing chimney then any new system must be to the designation described above and in accordance with Building Regulations Approved Document J.

A single wall metal fluepipe is suitable for connecting the stove to the chimney but is not suitable for use as the complete chimney. The chimney and connecting flue must have a minimum diameter of 150mm and at no point must the diameter reduce to less than the size of the outlet socket of the stove.

Any bend in the chimney or connecting fluepipe should not exceed 45°. 90° bends should not be used.

Combustible material should not be located where the heat dissipating through the walls of fireplaces or flues could ignite it. Therefore when installing the stove in the presence of combustible materials due account must be taken of the guidance on the separation of combustible material given in Building Regulations Approved Document J and also in these stove instructions.

If it is found that there is excessive draught in the chimney then a draught stabiliser should be fitted. Fitting of a draught stabiliser will affect the requirement for the permanent air supply into the room in which the stove is fitted in accordance with Approved Document J (see also combustion air supply).

Adequate provision e.g. easily accessible soot door or doors must be provided for sweeping the chimney and connecting fluepipe.

ALL FLUE INSTALLATIONS ARE THE RESPONSIBILITY OF THE CUSTOMER.

VENTILATION & COMBUSTION AIR REQUIRE-MENTS

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. The mimimum effective air requirement for this appliance is 59cm^2 . This increases to 105cm^2 where a flue draft stabiliser is fitted. If another appliance is fitted in an adjacent room it will be necessary to calculate an additional air supply.

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 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 $5m^3$ / (h.m²) (normally newer properties built from 2006), then a permanent ventilation must be fitted to provide $550mm^2$ of ventilation for each kW of rated output. If a draught stabiliser is also fitted then the requirement is $850mm^2$ per kW of rated output.

PERMANENT AIR VENT

The stove requires a permanent and adequate air supply in order for it to operate safely and efficiently. In accordance with current Building Regulations the installer will have fitted a permanent air supply vent into the room in which the stove is installed to provide combustion air. This air vent should not under any circumstances be shut off or sealed.

Extractor Fan

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.

EXTERNAL DUCTED AIR

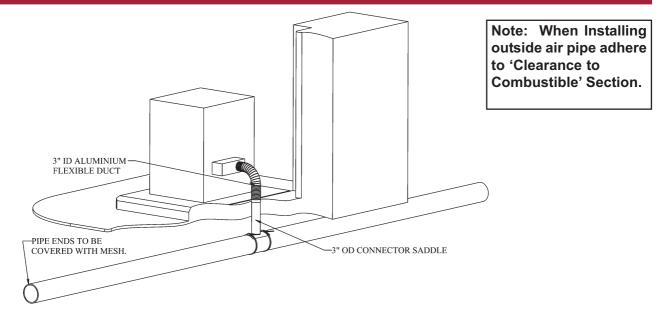
Where required the primary air supply can be ducted from outside. An outside air kit is available to order for connection to the stove.

'HETAS product approval covers this appliance when installed in accordance with the manufacturer's instructions and relevant standards. As there is currently no standard for Ducted Combustion Air Supply this does not fall within the remit for HETAS product approval. Responsibility for the specification of this and for appropriate manufacturer's instructions is carried by the appliance manufacturer, as allowed for under the Building Regulations.'

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 of 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.4





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 slow pressure will effect the flue pressure which is required to safely evacuate the products of combustion from the stove.

- 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.

CO ALARM

Waterford Stanley recommend the fitting of a CO Alarm in the same room as the appliance, this is a requirement under UK Building Regulations. 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.

LOCATION

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

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

INSTALLATION CLEARANCES

Maintain at least the following clearances to all combustible material:

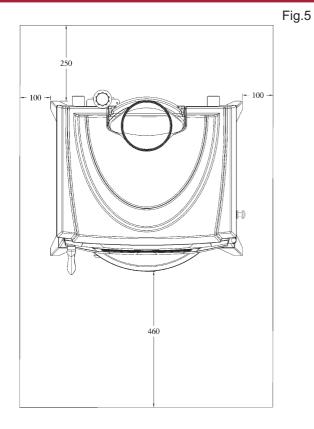
From the front 460 mm (18")
From the back 250 mm (10")
From the sides 100 mm (4")
From the flue pipe 460 mm (18")
straight up only

Brick wall minimum clearance, but allow access for controls and water fittings.

FLOOR PROTECTION

It is recommended that this appliance is installed on a solid, level, non combustible hearth conforming to current Building Regulations.

It is recommended that a minimum clearance of 100mm be maintained from the sides and rear of the appliance to a tiled fireplace or masonry wall, especially on the right of the appliance as access is required for the controls. See Fig.5.



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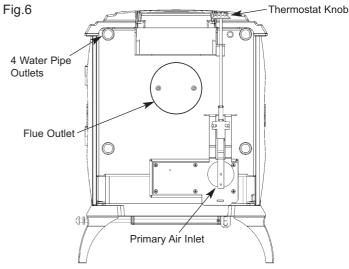
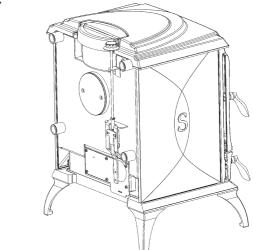


Fig.7



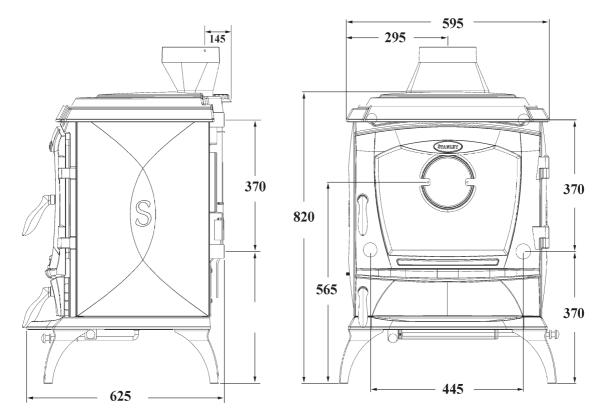
FLUE & WATER PIPE LOCATIONS

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

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

SPECIFICATION





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

TECHNICAL DATA			
Manufactured Smokeless Fuel : Max: Nominal:	Room Water Total 5.5 kW 14 kW 19.5 5.0kW 10.6kW 15.6		
Typical refuelling intervals to obtain nominal outputs:	MSF 4 hours		
Flue Gas Mass Flow:	MSF 9.8 g/s		
Flue Gas Mass at nominal output:	357°C		
Gross Weight:	239 kgs		
Flue Outlet:	150mm		
Flue Draught:	12 Pa		
Boiler Tappings:	1" BSP		
Max Water Pressure:	2 Bar		
Efficiency (obtained at nominal heat output)	76.1 %		

WARNING: DO NOT OBSTRUCT PRIMARY AIR SUPPLY TO THE AIR DUCT AT THE RIGHT HAND SIDE OF THE STOVE

PLUMBING

REGULATIONS

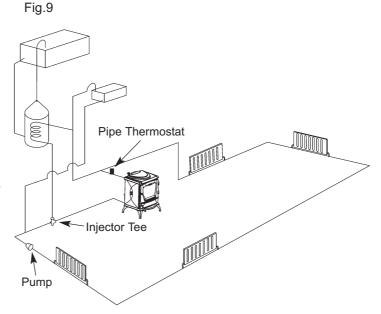
The plumbing must be in accordance with all relevant regulations and practices. It must include a gravity circuit with expansion pipe, open to the atmosphere. The central heating will normally be pump-driven as with other types of boilers.

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.

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



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.

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.

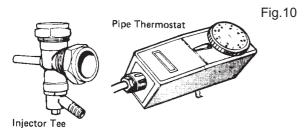
In some circumstances it may be possible to overheat the appliance and the water inside will boil. This will be evident by the sound of a knocking noise coming from the appliance and pipes around the house. If this occurs close off all air controls and manually start the central heating pump if fitted. 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 wil 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.

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.



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 6539 in the presence of children, aged and/or infirm persons.

IMPORTANT NOTES

Now that your 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.

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

- 3. Clean the flue-ways of the stove weekly and ensure that there are no blockages. Check flueways before lighting especially after a shut down period. Please refer to manual for instructions.
- 4. Always ensure ashpan lid is removed from ashpan before lighting the stove.
- 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. Allow adequate air ventilation to ensure plenty of air for combustion.
- 8. Do not use as an incinerator burning rubbish/household waste.
- 9. Do not leave ash-door open for long periods as this will over heat the unit causing unnecessary damage. Close the ash door between removing and replacing the ashpan.
- 10. Clean the chimney at least twice a year.
- 11. Burning soft fuels such as timber and peat will stain the glass. Regular cleaning will prevent permanent staining. Clean with soapy water when cool.
- 12. Keep all combustible materials a safe distance away from unit, please see section for clearances to combustibles.
- 14. Do not use an aerosol spray on or near the stove when it is alight.
- 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.
- 17. This appliance should be regularly maintained by a competent service engineer.

Use only replacement parts recommended by Stanley. Making unauthorised modifications, or using unauthorised parts will invalidate your guarantee and may cause damage or injury.

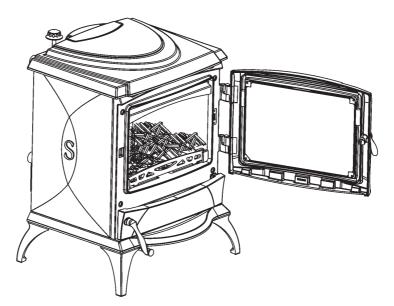
AN ODOUR WILL EMIT FROM STOVE ON FIRST FIRING, WHEN FIRE REACHES MAXIMUM TEMPERATURE OVER A NUMBER OF HOURS THE ODOUR WILL SUBSIDE.
IT IS BEST ADVISED TO OPEN WINDOWS DURING THIS PERIOD.

THE ODOUR IS UNPLEASANT BUT NOT TOXIC. YOU MAY WISH TO VACATE THE ROOM WHILE THE PAINT CURES.

LIGHTING

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 on the right hand side of the stove to setting 4 on the thermostat.
- Open the secondary air inlet by pulling it out fully.
- Cover with crumpled pieces of paper.
- 4. Lay 10-12 pieces of kindling on top of the paper towards the back of the firebox.
- 5. Ignite and close the firedoor.
- 6. Under no circumstances should any flammable liquid i.e. petrol, paraffin etc., be used to light the fire.
- 7. When the kindling is well alight open the firedoor and add more kindling of a larger size to sustain the fire. Close the firedoor.
- 8. When a hot bed of coal is established add the normal fuel.
- 9. When well lighted, adjust the thermostat to give the required heat output.
- 10. To shut the fire down, do not add fuel, make sure that the firedoor is properly closed and that the primary and secondary air controls are all in the closed position. Cutting off the air supply will reduce the heat output.
- 11. Following a prolonged shutdown of the appliance perhaps after the summer break, ensure the flueway is free from obstruction prior to re-lighting.

Re-fuelling-Open the firedoor and reload, close the firedoor.

OPERATING INSTRUCTIONS

RECOMMENDED FUELS

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

This appliance has been tested using manufactured briquetted smokeless fuel (Ancit) for closed appliances, sized between 20g and 140g. Other fuels are commercially available and may give similar results. Wood logs up to 430mm long are suitable. 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 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.

WARNING:

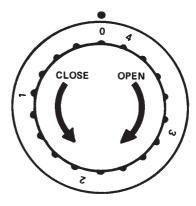
Properly installed, operated and maintained this stove will not emit fumes into the dwelling. Occasional fumes from de-ashing and re-fuelling may occur. However, persistent fume emission is potentially dangerous and must not be tolerated. If fume emission does persist, then the following immediate action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

- (a) Open doors and windows to ventilate room and then leave the premises.
- (b) Let the fire out.
- (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 flueway or chimney blockage. For your own safety these must be kept clean at all times.

THERMOSTAT OPERATION

Fig.12



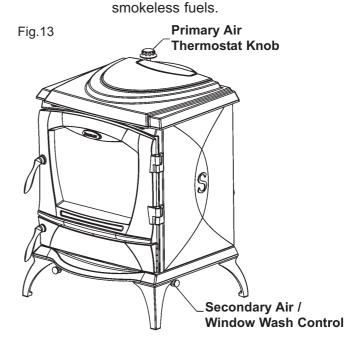
Setting 0: Closed Overnight Burning

Setting 1: 1/4 Open

Setting 2: 1/2 Open Slowburning
Setting 3: 3/4 Open Medium burning
Setting 4: Full Open Maximum Heat
Rotate the knob to give the required burning rate.

SECONDARY AIR CONTROL

OPEN When burning coal, timber or peat.
CLOSE When burning anthracite and



The secondary air control knob may be hot when the appliance is in use. The ashpan handle is a combined operating tool and can be used to operate this knob or use the glove provided. To open the secondary air, locate the knob under the base on the right hand side of the stove. Push to close and pull to open.

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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.

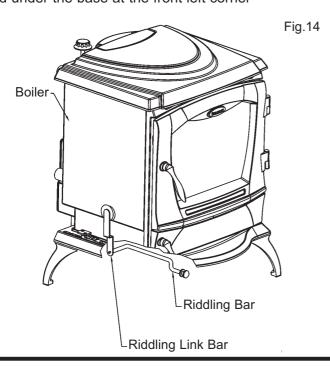
The heat to the boiler is controlled by the air supply to the stove which is required to have a thermostatic damper for safety reasons. When the temperature of the water in the boiler exceeds 55 °C the thermostatic damper will begin to shut off the air supply, should the water temperature continue to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

DE-ASHING

When ash build-up becomes excessive in the fire chamber shake the firebars by pushing and pulling the riddling rod repeatedly. The riddling rod is located under the base at the front left corner

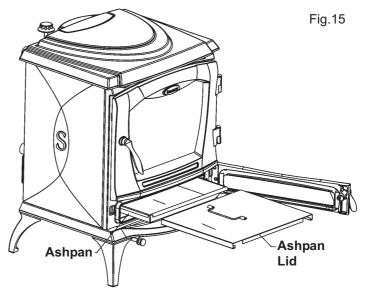


DISPOSAL OF ASHES

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. See Fig.15.



MAINTENANCE

CREOSOTE

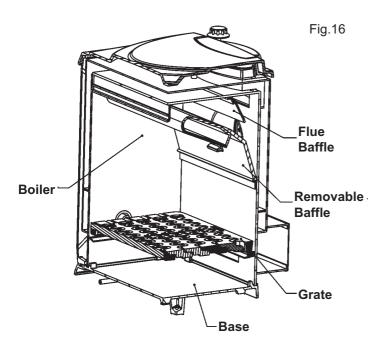
Creosote formation & need for removal when some fuels are burned slowly, they produce tar and other organic vapours, which combine with expelled moisture to form creosote. The creosote vapours condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited creosote makes an extremely hot fire.

CLEAN THE FLUEWAYS OF THE STOVE EVERY WEEK AND ENSURE THAT THERE ARE NO BLOCKAGES. CHECK FLUEWAYS BEFORE LIGHTING ESPECIALLY AFTER A SHUTDOWN PERIOD. PLEASE REFER TO MANUAL FOR INSTRUCTIONS.

TO CLEAN CHIMNEY BACK OUTLET

Remove baffle underneath the boiler cross flow chamber by lifting it upwards and pulling it outwards and insert cleaning brush. Replace baffle before lighting fire.

When fitted correctly the baffle should fall forward to close onto the bottom of the boiler. The appliance will not function correctly with this baffle misaligned or missing.



FIRE SAFETY

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

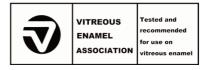
- 1. Do not over fire the stove.
- 2. Over-firing will also damage painted or enamel finish
- 3. Install a smoke detector in the room.
- A conveniently located class A fire extinguisher to contend with small fires resulting from burning embers.
- 5. A practical evacuation plan.
- 6. A plan to deal with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

VITREOUS ENAMEL CLEANING

General cleaning must be carried out when the stove is cool.

If this stove is finished in a high gloss vitreous enamel, to keep the enamel in the best condition observe the following tips:

- 1. Wipe over daily with a soapy damp cloth, followed by a polish with a clean dry duster.
- 2. For stubborn deposits a soap impregnated pad can be carefully used on the vitreous enamel.
- 3. Use only products recommended by the Vitreous Enamel Association, these products carry the Vitramel label.



4. DO NOT USE ABRASIVE PADS OR OVEN CLEANSERS CONTAINING CITRIC ACID ON ENAMELLED SURFACES. ENSURE THAT THE CLEANSER MANUFACTUR ERS INSTRUCTIONS ARE ADHERED TO.

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.

GLASS CLEANING

The glass will self clean when there is sufficient heat generated by the burning fuel. If a build-up of creosote occurs on the glass it may be due to draft conditions, poor quality fuel or very low burning for a long time. It is best to clean the glass when it is thoroughly cooled.

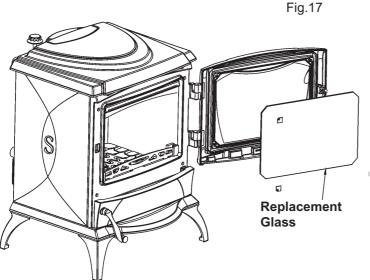
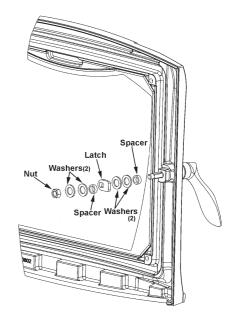


Fig.18

Fig.19



GLASS REPLACEMENT

- (a) Open the firedoor fully.
- (b) Remove the four corner 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.17).

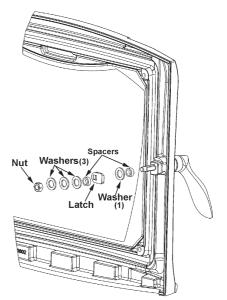
SUMMER SHUTDOWN

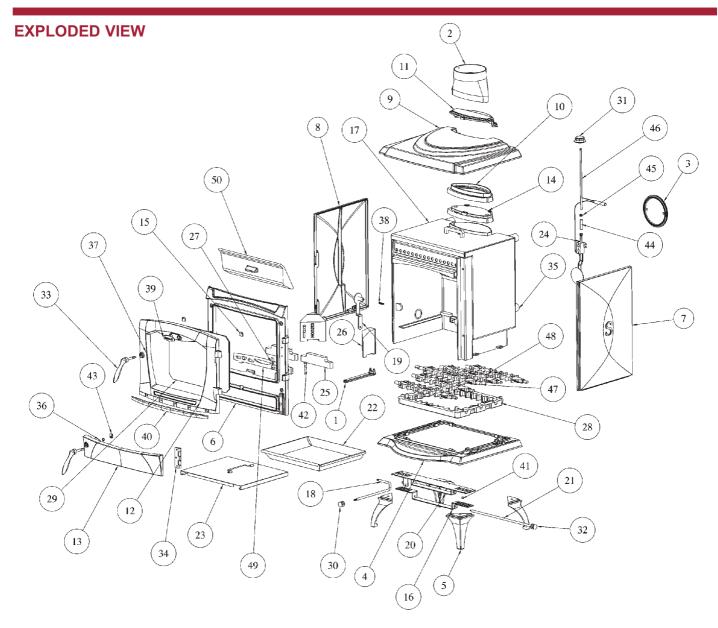
For summer shutdown of the stove, ensure all ashes have been cleaned from the ash compartment and that the air control is open, to avoid condensation in the stove firebox and possible corrosion during this shutdown period.

DOOR LATCH ADJUSTMENT

If the door latch should be come loose over time due to compression/ hardening of the rope inside the fire door, an adjustment can be carried out by removing one of the washers.

Remove the nut, spacer, two washers and latch and one washer, then replace the nut, spacer, two washers and latch leaving only one washer, see Figs. 18 & 19.





- 1. OPERATING TOOL B00009DZZ
- 2. TOP FLUE OUTLET B00053AZZ
- 3. FLUE BLANKING PLATE B00064AZZ
- 4. BASE B00594AZZ
- 5. STOVE LEG B00595AZZ
- 6. FRONT **B00596AZZ**
- 7. LEFT HAND SIDE B00597AZZ
- 8. RIGHT HAND SIDE B00598AZZ
- 9. HOB B00599AZZ
- 10. TOP FLUE CONNECTION PLATE B00600AZZ
- 11. HOB FILLER PIECE B00601AZZ
- 12. FIREDOOR B00602AXX
- 13. ASH DOOR- **B00603AXX**
- 14. TOP FLUE BLANKING PLATE B00609AXX
- 15. DOOR GLASS CLIP F00003AXX
- 16. DAMPER PLATE F00910AXX
- 17. BOILER F01008AXX
- 18. RIDDLING ROD F01015AXX
- 19. RIDDLING LINK BAR F01016AXX
- 20. COVER PLATE F01018AXX
- 21. DAMPER ROD F01019AXX
- 22. ASHPAN F01023AXX
- 23. ASHPAN COVER F01024AXX
- 24. QWX THERMOSTAT G00479AXX
- 25. FRONT BRICK H00209AXX

- 26. BACK CORNER BRICK H00213AXX
- 27. SERIAL NUMBER PLATE N00234BXX
- 28. FIREBAR FRAME Q00766AXX
- 29. GLASS T00100AXX
- 30. PULL ROD KNOB U00001AXX
- 31. AIR CONTROL KNOB U00006AXX
- 32. AIR WASH KNOB U00077AXX
- 33. DOOR HANDLE U00191AXX
- 34. HINGE U00193AXX
- 35. BOILER PLUG V00016AXX
- 36. SPACER TO DOOR HANDLE V00035AXX
- 37. SPACER V00489AXX
- 38. COMPRESSION SPRING V00564AXX
- 39. BADGE V00912AXX
- 40. FRONT STRIP V00932AXX
- 41. SPACER V00956AXX
- 42. HINGE PIN (Cam Action) V01071AXX
- 43. DOOR CATCH **V00985AXX**
- 44. RUBBER EXTENSION V01026AXX
- 45. CONSTANT TENSION CLAMP V01027AXX
- 46. THERMOSTAT CONTROL ROD V01028AXX
- 47. FIREBAR DRIVER Z00040AXX
- 48. FIREBAR DRIVEN Z00041AXX
- 49. FIRE FENCE Z00042AXX
- 50. FLUE CLEANING DOOR Z00045AXX

INSTALLATION CHECK LIST		
Flue Syster	Tick	$\sqrt{}$
1. Minimu	ım Flue Height of 4.6 metres (15 feet).	
	nce should be connected to a minimum of 1.8 metres (6 feet) of 150mm (6") be with a horizontal run not exceeding 150mm (6").	
	nce should be connected to a chimney of less than 200mm (8") in diameter vise the chimney must be lined with a 6" flue liner).	
	imney venting position must be above the main ridge of the roof or adjacent obstructions.	
5. The ch	imney serving this appliance should not serve any other appliance.	
6. Access	s should be provided to the chimney serving the appliance to allow for cleaning.	
Location		
	nce to combustible materials must be adhered to as described in the Clearance abustible section.	
	ove must be installed on a floor protector that covers the area under the stove tends 18" to the front & 8" to the sides and back.	
Plumbing		
9. Appliar	nce must be connected to a gravity circuit using 1" ID flow & return piping.	
10. The ler (25 ¹ / ₂ fo	ngth of pipes from the cylinder to the cooker should not exceed 7.8 metres eet).	
	lation pump should be fitted to the return pipe of the radiator circuit and controlled by stat fitted to the flow pipe of the gravity circuit to the cylinder.	
Ventilation	& Combustion Air Requirements	
size to	om in which the appliance is located should have an air vent of adequate support correct combustion (see Ventilation & Combustion Air Requirement of for specific details).	





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	 Refractory materials (supply only) Rope seals, glass seals and cement seals. Surface Finish on Seno models. Grates and fire bars. Ceramic glass is covered for Thermal breakage (supply only). Rust (if reported before installation) Aesthetic Damage (provided reported on date of receipt)
Up to 5 Years	 All external castings & enamel finishes (excluding impact damage or damage caused by overfiring). Pictures of damage must be submitted to WS Service Department.
Up to 3 Years	 Boiler - A Leaking Boiler Report must be conducted by an Authorised Stanley Service Engineer and submitted to WS Service Department for re view.

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 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.

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.

Manufactured by Waterford Stanley Ltd.,

Unit 401-403, IDA Industrial Estate, Cork Road, Waterford, Ireland. Tel: (051) 302300 Fax (051) 302315

Approved ®