



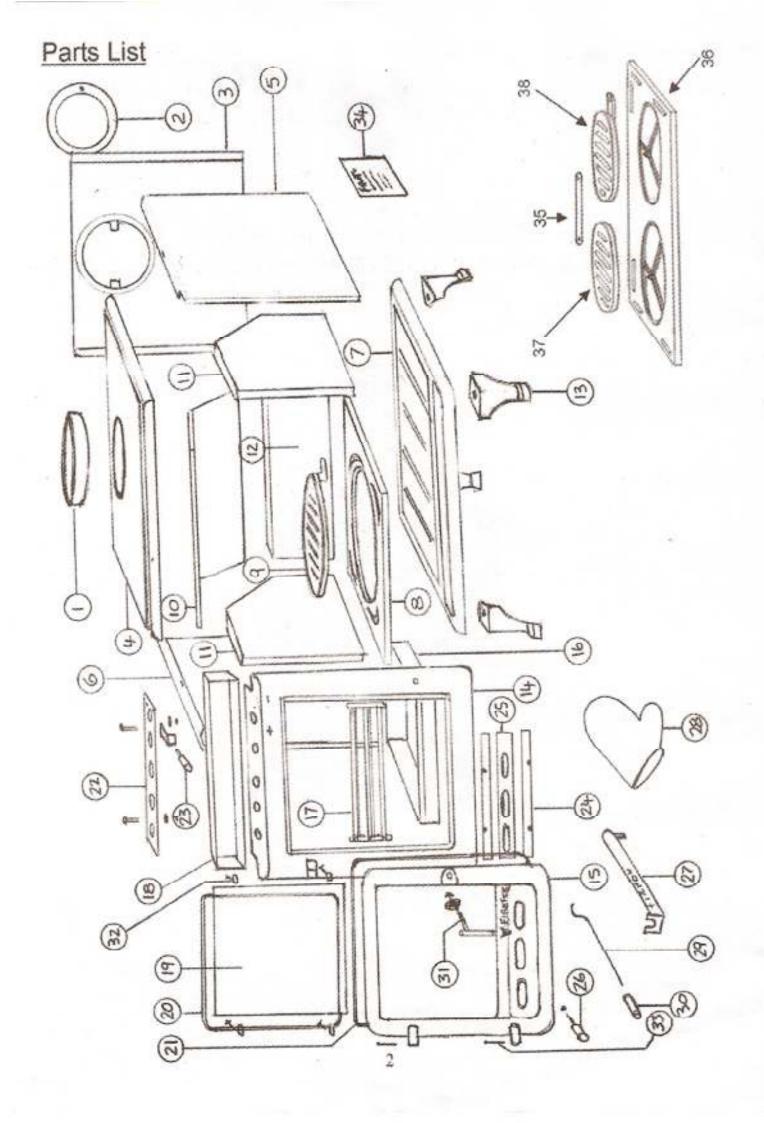
FIREFOX 5 and FIREFOX 8 INSTALLATION AND OPERATING INSTRUCTIONS

(to be left with the householder)



C € APPROVED

The Firefox Stove operates at very high temperatures. All persons including children and the infirm should be warned of this and not be allowed to touch any surfaces whilst in use. The operator must use the tools provided. The mitten provided is a tool.



| Firefox 5 F | arts List | | | | | |
|-------------|----------------------|---|--|--|--|--|
| 1 | FFX008 | Flue Collar | | | | |
| 2 | FFX009 | Flue Blanking Plate | | | | |
| 3,5,6 | FFX001 | Stove Body (Rear,Right,Left Panel) | | | | |
| 4 | FFX003 | Stove Top Panel | | | | |
| 7 | FFX002 | Stove Base Panel | | | | |
| 8 | FFX005 | Grate Support Plate | | | | |
| 9 | FFX006 | Grate | | | | |
| 10 | FFX007 | Stove Baffle Plate | | | | |
| 11 | FFX012 | Side Brick | | | | |
| 12 | FFX013 | Back Brick | | | | |
| 13 | FFX010 | Leg | | | | |
| 14,15 | FFX004 | Stove Door + Front Panel | | | | |
| 16 | FFX014 | Ash Pan | | | | |
| 17 | FFX011 | Fret | | | | |
| 18 | FFX024 | Secondary Air Duct | | | | |
| 19 | FFX018 | Door Glass | | | | |
| 20 | FFX027 | Glass Panel Seal | | | | |
| 21 | FFX026 | Door Seal | | | | |
| 22 | FFX023 | Secondary Air Slide | | | | |
| 23,26,30 | FFX022 | Primary, Secondary + Riddling Knob Set | | | | |
| 24 | FFX021 | Locating Strip | | | | |
| 25 | FFX020 | Primary Air Slide | | | | |
| 27 | FFX029 | Operating Tool | | | | |
| 28 | FFX1 | Mitten | | | | |
| 29 | FFX015 | Grate Riddling Rod | | | | |
| 31 | FFX016, FFX017 | Door Handle Assembly | | | | |
| 32 | FFX019 | Door Glass Retaining Tabs | | | | |
| 33 | FFX028 | Hinge Pin | | | | |
| 34 | 4 | Stove Identification Label (non-replaceable pa | | | | |
| Firefox 8 P | arts List | | | | | |
| 1 | FFX8008 | Ehra Callar | | | | |
| 2 | FFX8009 | Flue Collar | | | | |
| 3,5,6 | | Flue Blanking Plate | | | | |
| 4 | FFX8001 FFX8003 | Stove Body (Rear,Right,Left Panel) | | | | |
| 7 | FFX8002 | Stove Top Panel Stove Base Panel | | | | |
| 10 | FFX8007 | Stove Baffle Plate | | | | |
| 11 | FFX8012 | Side Brick | | | | |
| 12 | FFX8013 | Back Brick | | | | |
| 13 | FFX8010 | | | | | |
| 14,15 | FFX8004 | Stove Door + Front Panel | | | | |
| 16 | FFX8014 | Ash Pag | | | | |
| 17 | FFX8011 | Front Bar | | | | |
| 18 | FFX8024 | | | | | |
| 19 | | Secondary Air Duct | | | | |
| 20 | FFX8018 FFX8027 | Door Glass | | | | |
| 21 | FFX8026 | Glass Seal Door Seal | | | | |
| 22 | FFX8023 | | | | | |
| 23,26,30 | FFX022 | Secondary Air Slide | | | | |
| 24 | | Primary, Secondary + Riddling Knob Set | | | | |
| 25 | FFX8021 FFX8020 | Locating Strip Primary Air Stide | | | | |
| 27 | FFX029 | | | | | |
| 28 | FFX1 | Operating Tool | | | | |
| 29 | | minedii | | | | |
| 31 | FFX015 | Grate Riddling Rod | | | | |
| 32 | FFX8016, FFX8017 | Door Class Relaining Taba | | | | |
| 33 | FFX019 | Door Glass Retaining Tabs | | | | |
| | FFX028 | Hinge Pin | | | | |
| 34 | FFX8030 | Stove Identification Label (non-replaceable part) | | | | |
| 36 | FFX8005 | Grate Support Plate | | | | |
| 37 | | Grate Support Plate | | | | |
| 38 | FFX8006L FFX8006R | Grate (LH) | | | | |
| 1,000 | C C A COLD BY BY | CHECKED (MINE) | | | | |

Grate (RH)

38

FFX8006R

Assembly Of Stove

Remove legs, collar and blanking plate from stove and fit in desired position. The collar can be fitted top or rear.

The legs can be fitted at front of ash lip or rearward. To make easier for handling on installation, remove baffle plate, side bricks, back brick and door. Place in a secure place to avoid damage.

Refit after installation.

Stove Installation, Operating & Maintenance Instructions

THIS APPLIANCE MUST BE INSTALLED BY A QUALIFIED SOLID FUEL ENGINEER IN ACCORDANCE WITH NATIONAL AND EUROPEAN STANDARDS AND LOCAL CODES.

Installation Instructions

Check the chimney is in good condition, dry, free form cracks and obstructions. The diameter of the flue should not be less than 150mm and not more than 230mm. If any of these requirements are not met, the chimney should be lined by a suitable method.

The chimney height and the position of the chimney terminal should conform to Building Regulations.

A flue draught of minimum 12 Pascals water gauge is required for satisfactory appliance performance. The flue draught should be checked under fire at high output and if it exceeds the recommended maximum, a draught stabiliser must be fitted so that the rate of burning can be controlled, and to prevent overfiring.

If you have any doubts about the suitability of your chimney, consult your local dealer/ stockist.

The chimney must be swept before connection to the stove and swept every six months there after.

An existing fireplace opening can be bricked up or sealed with a register plate, 2.5mm steel sheet or concrete. A short length of flue pipe no smaller in diameter then the stove flue outlet or the manufacturer's stated flue size may then be used to connect the stove to the chimney. This flue pipe should be of cast iron, 316 grade stainless steel or vitreous enamelled, nominal thickness 1.2mm. Ensure that the pipe end is no closer than 76mm to the side or rear chimney walls.

Ideally, the old fireplace should be filled in so that there is a smooth streamlined entry into the flueway.

The length of any horizontal run of the flue pipe must not exceed the flue outlet diameter on the stove—125mm.

It is essential that all connections between the stove and chimney-flue are sealed and made airtight.

Both chimney and flue pipe must be accessible for cleaning and if ALL parts of the chimney cannot be reached through the stove, a soot door must be fitted to enable this this to be done.

The Primary Air Sealing Plate is located on the front of the grate. To locate in position slacken the two screws beneath the grate and pull forward, then close the door fully open door and tighten screws.

The stove can be recessed in a suitable sized fireplace but a permanent free air gap of at least 100mm must be left around the sides and top to obtain maximum heat output and for access to the rear of the stove. There should not be any combustible material within a distance of 600mm from any surface of the stove. In all instances the stove should be positioned on a non-combustible hearth. Allow an apron of at least 300mm at the front of the stove and 150mm on either side. The hearth on which the stove is to be placed should not be less than 125mm thick if the floor is made of combustible material, and care should be taken to level the stove and secure the hearth.

When the stove is desired position mark hearth through holes in feet, remove stove drill and plug hearth for securing stove and levelling. See typical flue connection methods illustrated.

Upon completion of installation, the appliance should be checked under fire for soundness of joints and seals, and also that all smoke and fumes are taken from the appliance, up the chimney and emitted safely.

Care should be taken that all flues, hearths, and combustion air supplies are in accordance with the current Building Regulations, Local Authority Bye-Laws, British Standards and Codes of Practice with a minimum 15cm2 of permanent air supply free of any obstruction. An extractor fan must not be used in the same room as the appliance.

Operating Instructions

Primary Air

Primary air is controlled via the sliding vents in the bottom of the door; this provides a conventional air draught to the bed of the fire. (+) indicates more air, (-) indicates less air, (+) and (-) are marked on primary and secondary air controls.

Secondary Air

Secondary air is controlled via the sliding vent above the door, it is this 'airwash' that keeps a clean and uninterrupted view of the fire, also aiding in good secondary combustion of fuel and reducing emissions into the chimney and environment.

Damper Assembly (optional)

When burning wood only, a flue damper assembly may be fitted. When the damper is set in the open position the chimney draws at full draught, increasing the volume of air flow through the stove and flue. Shutting the damper restricts the flow, slowing the rate of burning. This is an after market product and will be of the type with positive open and closed indication to prevent misunderstanding.

THE FLUE DAMPER SHOULD NOT BE FITTED WHEN BURNING SOLID FUELS

De-Ashing

It is important that the riddler is used to remove the ash to ensure an airflow through the firebed and allow the fire to burn over the entire area of the grate. Insert peg on operating tool into hole in riddling rod, draw tool forwards and backwards with a slow positive action. Set rod in back position after de-ashing.

Notes On Wood Burning

Wood burns best on a bed of ash and it is therefore only necessary to remove surplus ash from the grate occasionally.

Burn only dry, well seasoned wood, which should have been cut, split and stacked for at least 12 months, with free air movement around the sides of the stack to enable it to dry out. Burning wet or unseasoned wood will create tar deposits in the stove and chimney and will not produce a satisfactory heat output.

Notes On Solid Fuel Burning

Always de-ash before refuelling and do not let the ash build up to the underside of the grate bars. Solid fuel produces ash, which if allowed to build up will stifle the air flow through the grate and eventually cause the fire to die.

With some solid fuels a residue of burnt fuel or clinker will accumulate on the grate, allow the fire to go out periodically to remove this.

We cannot stress firmly enough how important it is to empty the ash pan regularly. Air passing through the firebed cools the grate. Distortion or burning out the grate bars is nearly always caused by ash being allowed to build up the underside of the grate.

Lighting The Stove

We recommend that you have two or three small fires before you operate your stove to its maximum heat output. This is to allow the paint to cure and castings to relax and consolidate location we recommend 'running in' procedure after long shutdowns to preserve life of stove. During this you may notice an unpleasant smell. It is not toxic, but for your comfort we would suggest that during this period you leave all doors and windows open.

First, load the fire with starting fuel i.e. paper, dry kindling timber and/or fire lighters in the mode chosen, either wood or coal.

Light the fire at base leaving all air controls open. Allow the fuel to reach a steady glow and build the fire up gradually. Once you have a good fire established across the grate bed, further fuel can be added as required.

When your fuel is well alight you can start to restrict the primary air intake. If you are burning only wood, the primary air control can be fully closed. If you are burning solid fuel you will require more primary air. Your stove is burning with maximum efficiency when a bright fire is achieved using minimum air inlet.

The stove can be banked up for long periods. When burning solid fuel empty the ashpan. Open air controls and let the fire burn brightly for a short period. Refuel and close air controls, the exact setting required will depend on the fuel used and the chimney draw so some practice may be necessary. To revive the fire, open air controls until the fire is burning brightly, de-ash if necessary (solid fuel only) and refuel. Set air controls as required.

Solid Fuels

We recommend the majority of approved manufactured smokeless fuels. Household coal, which is 'Smokey' fuel, can also be used but note that different types will give different performances. Use as an incinerator is not recommended as fumes from plastics etc will cause pollution to the atmosphere and will damage stoves internals.

PETROLEUM COKE FUELS OR HOUSEHOLD WASTE SHOULD NOT BE BURNT ON THIS APPLIANCE

Should any difficulties arise over fuel quality or suitability, consult your local supplier or the Solid Fuel Advisory Service.

Safety Notes For Your Guidance

FIRES CAN BE DANGEROUS -Always use a fire guard in the presence of children, the elderly of the infirm.

Inform all persons the dangers of high temperatures during operation of appliance including the stove pipe use operating tools provided.

DO NOT OVER FIRE—it is possible to fire the stove beyond its design capacity, this could damage the stove, so watch for signs of overfiring—if any part of the stove starts to glow red, the fire is in an overfire situation, and the controls should be adjusted accordingly. Never leave the stove unattended for long periods without adjusting the controls to a safe setting—careful air supply control should be exercised at all times.

Warning—Fume Emissions

Properly installed and operated, this appliance will not emit fumes. Occasional fumes from de-ashing and refuelling may occur. Persistent fume emission must not be tolerated.

If fume emission does persist, then following immediate action should be taken—

1. Open doors and windows to ventilate the room.

- Let the fire out, or eject and safely dispose of fuel from the appliance.
- Check for flue chimney blockage, and clean if required.

Do not attempt to relight the fire until the cause has been identified. If necessary, seek professional advice.

DO NOT FIT AN EXTRACTOR FAN IN THE SAME ROOM AS THIS APPLIANCE

General Maintenance

Baffle Plate

This should be removed at least once a month to prevent any build up of soot or fly ash which could lead to blocked flueways and dangerous fume emission. If the baffle plate is removed the chimney/flueway can be swept through the appliance.

Stove Body

The stove is finished with a heat-resistant paint and this can be cleaned with a soft brush. Do not clean whilst the stove is hot, wait until it has cooled down. The finish can be renovated with a suitable brand of paint.

Glass Panels

Clean the glass panels when cool with a proprietary glass cleaner. Highly abrasive substances should be avoided as these can scratch the glass and make subsequent cleaning more difficult. Wet logs on heated glass, a badly aimed poker or heavy slamming of the doors could crack the glass panels. The glass will not fracture from heat.

Chimney

Check your chimney each year before starting to use your stove for the winter. Birds may have nested in the chimney or the masonry may have cracked. Both chimney and flue pipe must be swept at least once a year.

To avoid a build up of soot on the baffle (the plate inside the stove above the grate) this must be removed and cleaned periodically. This plate locates the back and side firebricks so note its position before removal. To remove, lift plate and remove one side brick, this will allow plate to drop and aid removal. To replace, position baffle plate on back and side brick, lift plate and replace remaining brick, make sure it has located in position. This must be done when the stove is cold.

For efficient burning of your appliance, make sure the grate is clear of burnt debris i.e. nails etc.

Troubleshooting

1) Poor heat output

A) Stove too small for a room.

Seek advise from a Qualified Heating Engineer as to (KW) output required for room size as a guideline the volume of the room in cubic feet divided by 500 i.e. room 15'x15'x8' would require 3.6kw approx.

B) Chimney and/or flue pipe restricted, room ventilation restricted.
On installation these will have been checked but regular maintenance is necessary as conditions can change i.e. soot build up, birds nesting, masonry fall, dust build up or furniture blocking vents.

C) Poor quality fuel.

Only burn dry seasoned timber, soft woods have a lower heat output then hard woods per hour. Solid fuels vary in heat value check with your coal merchant as to suitability.

2) Dirty Glass Panel

A) Generally caused by poor fuel quality, see (1c)

B) Use secondary air slide (Airwash) for glass panel

C) Fire burning to low, open air vents on stove create hot fire this may 'burn' glass clean.

D) If glass requires cleaning use glass cleaner recommended by your supplier, only use glass cleaner or cold glass. DO NOT USE any abrazifs or scrapers these will scratch glass causing tar build up harder to remove.

3) Unburnt Fuel In Firebox

Insufficient air reaching fuel. Open primary air slide, this will supply combustion air to burn fuel fully (unless it has reached a 'point of return')

Check ash pan is full, empty if required, grate may be blocked de-ash with riddler, check for jammed clinker or nails in grate when fires out and cold.

4) Smoke And Fumes Entering Room

These are very dangerous and must NOT be tolerated. Open window and allow fire to burn out, seek expert advice immediately. DO NOT USE stove until the problem is solved. A list of Qualified Engineers is available from

UK Solid Fuel Association 7 Swanwick Court Alfreton Derbyshire DE557AS Tel- 0845-601-4406

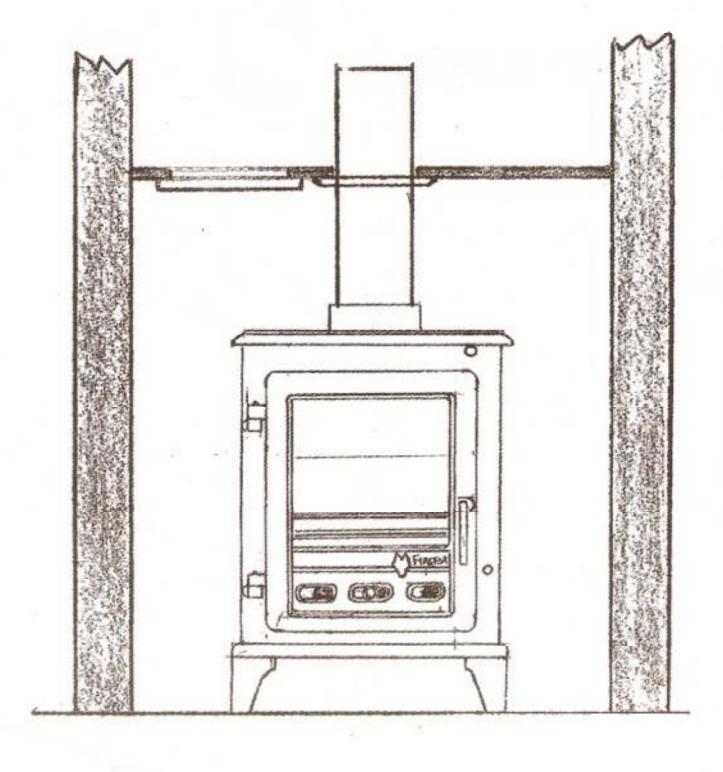
R.o.l.
Irish National Fireplace Organisation
162 Chapel Street
Dublin
Tel-01-801-5959

5) Chimney Fire

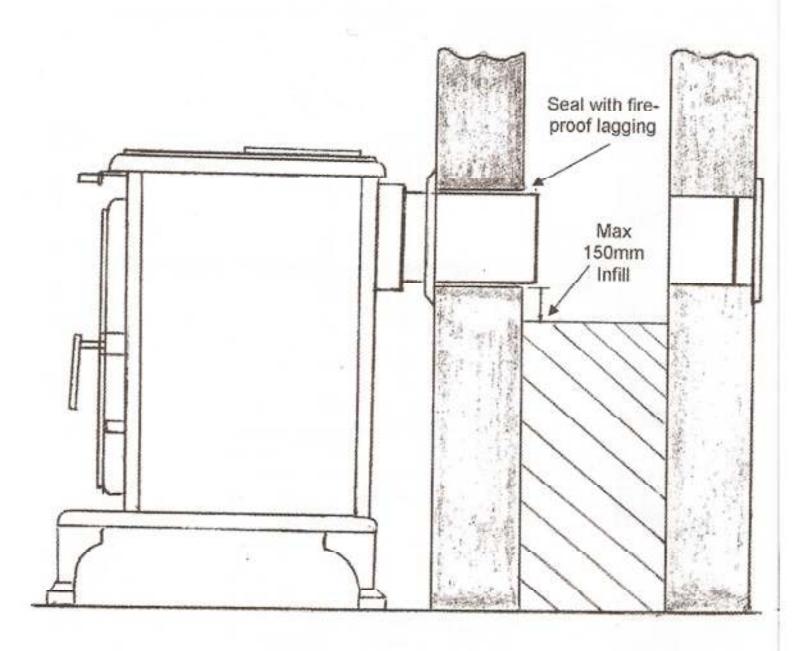
Identified by loud roaring sounds, dense smoke and sparks exiting chimney. Shut down air supply to stove by closing air vents, close stove door fully, call fire brigade immediately. Regular chimney maintenance will prevent chimney fires. Seek advice from a Qualified Chimney Sweep. Chimneys must be checked annually more often when bitumas coal and poor quality smoky fuels are used.

Installation Diagrams

Typical Top Flue Installation using steel closure plate incorporating clean out door for chimney sweeping

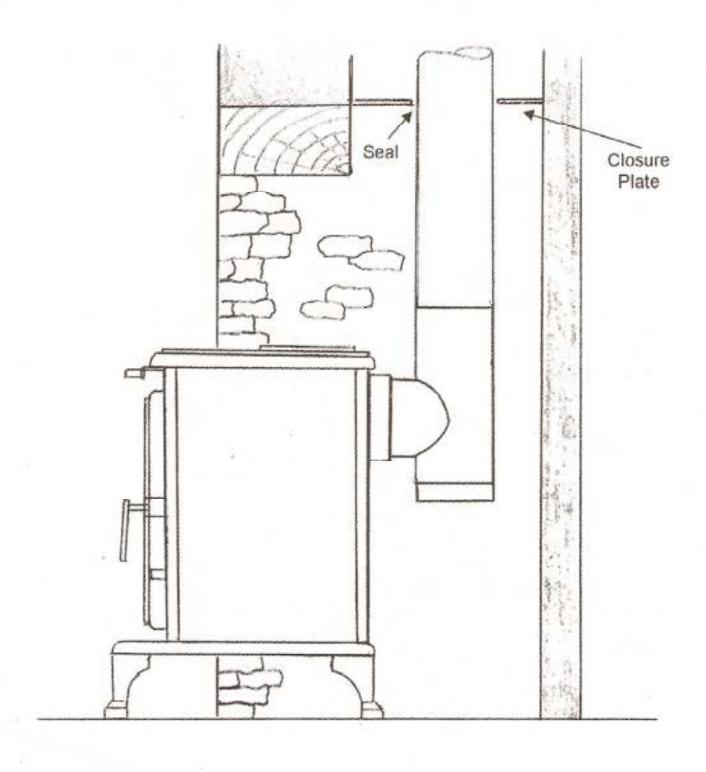


Typical Rear Flue Installation with clean out door

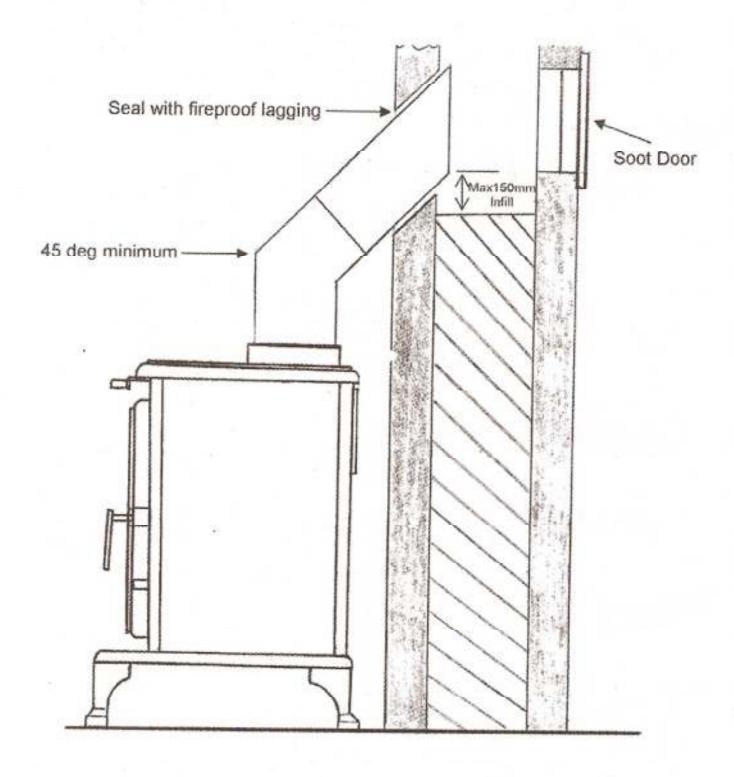


Typical Installation For Inglenook Fireplaces

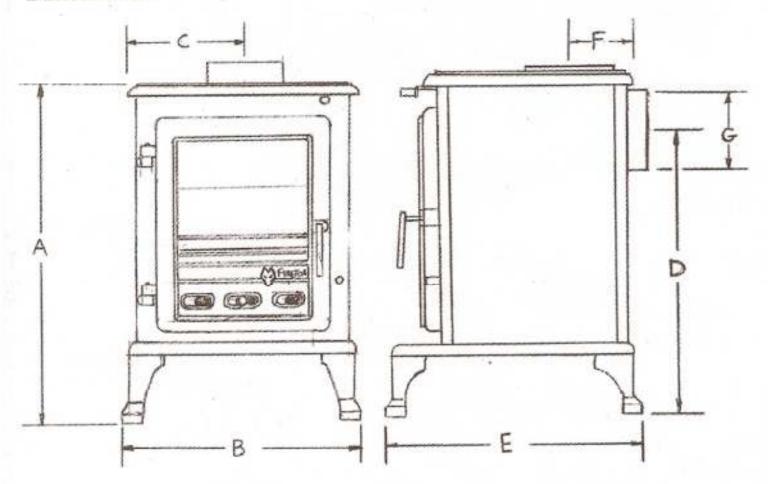
Inglenook fireplaces can have very large bore chimneys. Check with your installer—you may need a stainless steel flexible liner for solid fue. fitting.



Typical Installation Into Infilled Masonary Fireplaces



Dimensions



| Dimensions, mm | A | В | С | D | E | F | G | Weight | Max Fuel Load Anthracite | Minimum Flue Draught |
|-------------------|-----|-----|-----|-----|-----|-----|-----|--------|--------------------------------|-------------------------|
| Firefox 5 | 560 | 412 | 206 | 440 | 374 | 102 | 131 | 70 Kg | 5.33 Kg | 12 Pa 0.048 In Wg |
| Firefox 8 | 607 | 566 | 283 | 485 | 363 | 140 | 164 | 90 Kg | 8.64 Kg | 12 Pa 0.048 in Wg |

| Key To Di | mensions |
|------------|------------------------|
| A-Height | |
| B-Width | |
| C-Centreli | ne of Flue |
| D-Height 7 | To Centre of Rear Flue |
| E-Depth | |
| F-Rear to | Centre of Top Flue |
| G-Flue Dia | |

| Output | Output kW Firefox 5 | Output kW Firefox 8 | Cycle Hours |
|------------------------|------------------------|------------------------|----------------|
| Anthracite | 6.05 | 8.42 | 4 |
| Wood Logs | 5.87 | 8.9 | 1 |
| Coal | 5.02 | 6.5 | 4 |
| Peat | 5.44 | 8.38 | 2 |
| Closed Fire Briquettes | 5.33 | 8.64 | 4 |

Dimensions may vary slightly, the manufacturers reserve the right to adjust them without notice.
 Outputs stated are under ideal test conditions. Variations will occur due to installation, atmospheric conditions and fuel quality.



Percy Doughty & Co.
Imperial Point
Express Trading Estate
Stone Hill Road
Farnworth
Bolton
BL4 9TN

Telephone 01204 868550 Fax 01204 868551

email sales@percydoughty.com web www.percydoughty.co.uk