Phoenix

A new era in cleaner, efficient stoves

Inset Stove



Installation and Operating Instructions

Serial number M108E:



Contents

Covering the following model:

M108E FireBright

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General Specifications

C Class 1: BS EN 13229:2001 + Amd 2:2004 For Intermittent use only

Nominal Heat Output kW		5	
Space Heating kW		5	
Efficiency% (wood)	%	79.9	
Efficiency% (solid fuel)	%	80.4	
CO (wood)	%	0.07	
CO (solid fuel)	%	0.06	
OGC (wood)	Nmg/m3	53	
OGC (solid fuel)	Nmg/m3	18	
NOx (wood)	Nmg/m3	93	
NOx (solid fuel)	Nmg/m3	72	
PM (wood)	Nmg/m3	36	
PM (solid fuel)	Nmg/m3	10	
Minimum Clearance From Com	bustibles (mm)		
Тор		350	
Side		100	
Test Period in hours - (wood /	solid fuel)	0.80 /1.0	
Maximum Log Length (mm)		270	
Overall Height (Body in room) (mm)	620	
Overall Height (Rear box in w	all) (mm)	551	
Overall Width (Body in room	inc. top) (mm)	552	
Overall Width (Rear box in w	all) (mm)	400	
Overall Depth (Body in room) (mm)) inc. door)	106	
Overall Depth (Rear box in w	all) (mm)	310	
Flue Outlet Size (mm)		127	
Flue - Centre Line to rear of Co (mm)	nvector Box	90 deg. (vert.)	Or 45 deg
Stove Fire Boards			
Side Board(mm) (2 Required)		270 x 312	
Rear Board (mm)		286 x 171	
Baffle board		318 X 304	

WOODWARM STOVES (Est. 1974)

Ву

Metal Developments Ltd Victor House, Greenham Business Park, Wellington, TA21 0LR Tel: 01884 35806 Fax: 01823 673960 E-mail sales@woodwarmstoves.co.uk www.woodwarmstoves.co.uk

Regulations

All local regulations, including those referring to national and European Standards including BS EN 15287, BS 6999, BS 8303 must be complied with when installing this appliance.

A carbon monoxide alarm must be fitted to BS EN 50292

Health and Safety at Work

It is the responsibility of the installer to comply with current Health and Safety Regulations, and particular attention should be given to the following:-

Achaeta

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.

Handling

This stove is heavy! Adequate facilities must be available for all handling operations and its final manoeuvre into position. In order to lighten the stove, the main door may be removed. The grate bars can also be removed.

Care should be taken when handling the door that the glass is not knocked. The door is double glazed.

Fire Cement

Some types of Fire Cement are caustic and should not be allowed to come into contact with the skin. In cases of contact, wash off with plenty of water.

Electrical

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If any electrical components are used in the installation, they should be installed in accordance with the manufacturers installation instructions. All wiring must comply with the current I.E.E regulations and the by-laws of the local water authority.

Air Supply

All appliances of this nature require an adequate supply of air to perform safely and cleanly. Building Regulations dictate that an air vent of some type (usually an air brick) must be fitted into an exterior wall to allow sufficient flow of air into the fire. Air Inlet grills must be non-adjustable and positioned where they are not liable to blockage.

Extractor fans must not be placed within the same room as the appliance, as this can cause flue reversal and fumes to be emitted.

Older properties may have enough natural inwards air leakage (air permeability) to allow appliances of 5kW or less, a suitable air supply.

Modern properties built to a high level of airtightness (less than 5m³ per hour per m² air permeability), require an air vent for **All** appliances including those below 5kW. Such properties now have a certificate stating the level of air leakage found during completion.

In all cases, the current requirements should be met and suitable measures taken to satisfy each installation, bearing in mind recent and likely alterations.

More information is available by following this link: www.hetas.co.uk/wp-content/mediauploads/Ventilators2.pdf

Useful Contacts

HETAS

Severn House Unit 5, Newtown Trading Estate Green Lane TEWKESBURY GL20 8HD

Tel: 01684 278170 Fax: 01684 273929 Email: info@hetas.co.uk www.HETAS.co.uk

Solid Fuel Association

7 Swanwick Court Alfreton Derbyshire DE55 7AS Tel: 01773 835400 or 0845 6014406 Fax: 01773 834351 www.solidfuel.co.uk

Guild of Master Chimney Sweeps

Tel: 01226 242357 www.guildofmasterchimneysweeps.co.uk

The National Association of Chimney Sweeps Unit 14 -15

Emerald Way
Stone Business Park
Stone
Staffordshire
ST15 OSR
Tel: 01785 811732
www.nacs.org.uk

The National Association Of Chimney Engineers

(N.A.C.E. Ltd)
PO Box 849
Metheringham
Lincoln
Lincolnshire
LN4 3WU
Tel: 01526 322555
Fax: 01526 888007
E-mail:info@nace.org.uk

Database of wood fuel suppliers.

National Energy Foundation (NEF)

Tel: 01908 665555 www.logpile.co.uk Searches can be made on post code, county and by supplier.

Defra

Defra Correspondence Section Area 4C Ergon House c/o Nobel House 17 Smith Square London. SW1P 2AL Tel: 03459 335577

E-mail: correspondence.section@defra.gsi.gov.uk.

Oil Renewable Heating Technologies OFTEC

Foxwood House

Dobbs Drift
Kesgrave
IPSWICH
IP5 2QQ
Tel: 01473 626298
Fax: 01473 636536
Email: enquiries@oftec.org

www.oftec.org.uk

Association of Professional Independent Chimney Sweeps Ltd (A.P.I.C.S.)

Bryallen Henger Road St Tudy Bodmin Cornwall PL30 3PL Tel: 0845 604 4327 www.apics.org.uk

The Guild of Master Chimney Sweeps

Ocean Deck Clifford Road Grays Essex RM16 6QL Tel. 01375 414003 www.quildofmasterchimneysweeps.co.uk

The Woodwarm Stove Guarantee

Metal Developments Ltd offer a ten year guarantee which covers the main structure of the stove, including the construction and quality of workmanship. If you do not fill in your guarantee form and return it to us, you will still have, Under the Consumer Rights Act 2015, a one year manufacturers guarantee, but not the full ten year entitlement.

In the unlikely event of any failure, we will replace any defective part free of charge, labour cost excluded.

This guarantee is invalid if the stove is not assembled, installed or operated as per these instructions, or does not comply with current building regulations and any regional legislation in force at the time.

Metal Developments Ltd does not guarantee the onsite assembly, installation or operation of the stove. Please seek advise from your stove supplier / installer for any relevant guarantees applicable to the installation.

Metal Developments Ltd will not be held liable for any consequential or incidental loss, damage or injury, however caused.

Claims under this guarantee should be first made through your Woodwarm Stove retailer.

This guarantee is only applicable in the UK.

Nothing in this guarantee shall effect your statutory rights.

Exclusions

The following consumable parts are not covered by this guarantee : -

- Swivel Fire Bars
- Log guard
- Operating Tool
- Fireboards (including baffle)
- Glass Panels
- Door Seals
- Paint is also excluded from the guarantee as it will eventually deteriorate due to the normal working of the stove

Your assistance is requested by filling in and returning the product Registration and Guarantee Form. This will help maintain our records and assist us in identifying your stove in the unlikely event of any problem occurring, and also when you need to order any spare parts.

Hearth

The stove must stand on a fireproof hearth, which must be at least 127mm thick and constructed of a non-combustible material. The positioning of the stove and the size of the hearth is governed by Building Regulations for Class 1 Appliances. These regulations state that the hearth must extend at least 225mm in front and 152mm to the side of the stove. This can be covered with decorative tiles, so long as these are also non-combustible.

Stove Site and Minimum Clearances

There must be **no combustible** material (i.e. plaster board, wooden wall panels, skirting boards, beams etc) **within a** specified distance to the rear and sides of the stove. These can be found on table 1, page 3.

The clearance between the stove and any non-combustible surface is recommended as **not less than 152mm the side or rear and 300mm from above.**

Chimney and Flue

The chimney should be thoroughly swept and examined for soundness. If the chimney is not lined, then we strongly recommend that before use, it is fully lined with a Class 1 Liner and insulated (we recommend no more than 600mm single skin flue from the appliance). It is not advisable to only partially line a chimney, as this will only create further problems where the lining finishes. If there are even the smallest air breaks in the mortar, the chimney is not suitable for a wood stove. When hot flue gases rise up the chimney, it will pull cold air through any small break. This cools the flue gases at that level, causing wood tar to precipitate at that point on the chimney wall. Soon, this will accumulate across the chimney and constrict it, stopping the fire burning properly. Eventually, this will not only lead to a chimney fire, but will further rot the chimney structure. If the chimney is not lined and was previously used for an open fire, then there is a possibility that the higher temperatures produced by this closed appliance will loosen deposits. It will be necessary to have the flue swept and inspected by a registered sweep one month after the initial installation.

In the absence of a chimney, one of the following must be used either internally or externally:- a prefabricated block chimney, a conventionally constructed chimney with a Class 1 liner, or a twin walled insulated flue to BS 4543. The internal diameter must not be less than that of your particular appliance. Flues must be fitted in accordance with the manufacturers' instructions and according to local Building Regulations. If there is any doubt over the flue connection or the installation, consult your nearest professional installer, or the Building Inspector at your local council.

The minimum flue size for these stoves varies according to the model. Refer to the specification sheet (table 1 page 3) for the minimum flue diameter. If possible, line the chimney with a flue liner that is at least 25mm (1") larger than that of your particular stove and avoid long lengths at minimum diameter. At no point in the flue should it be below the minimum flue diameter.

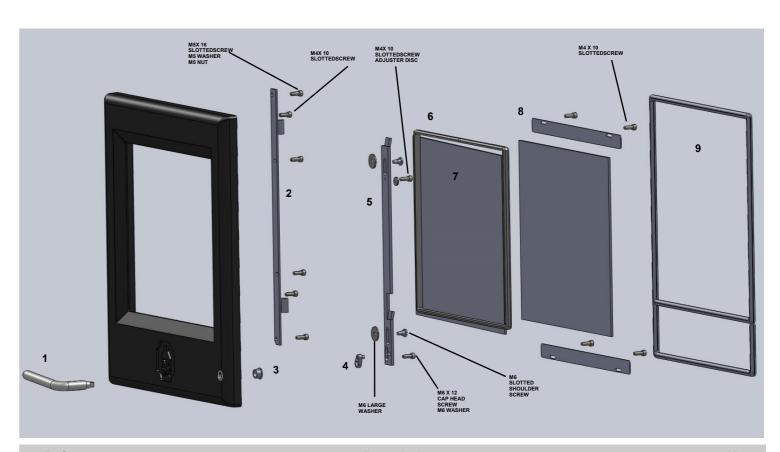
When the stove is to be connected to an existing fireplace, this will need sealing to the flue by a register plate, which can be mounted horizontally or vertically.

This appliance is unsuitable for use in a shared flue system. If elsewhere in the house another fireplace feeds into the same chimney, this **must** be sealed, otherwise flue gases or air may be drawn into, or escape from, the other chimney or fireplace. This would contravene Building Regulations as it is potentially very dangerous.

Whichever flue option you choose to use, **Do not forget to position a cleaning access** (if applicable) in your flue and chimney that is easily accessible for sweeping. **Note:** Clay liners can create a cool upper internal temperature which can lead to condensation problems, especially if the liners are not back insulated. If a clay liner is already in place we recommend lining with Class 1 liner.

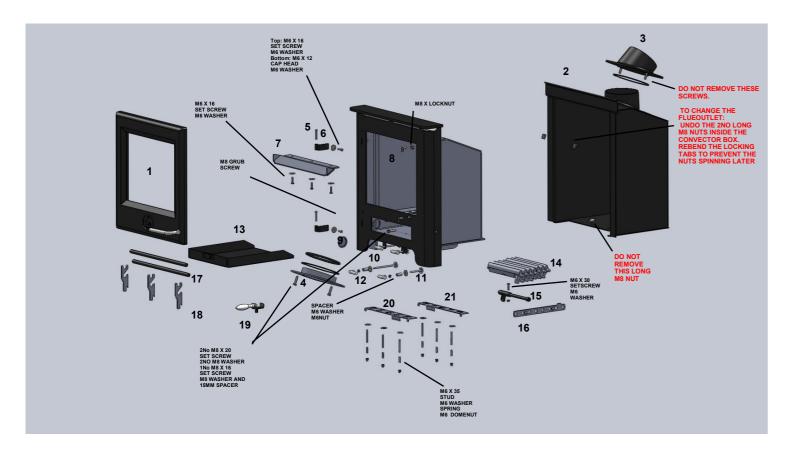
This appliance must be fitted by a registered installer or approved by your local building control officer.

Spare Parts - Door Assembly



1
1
1
1
1
1
2
2
1

The clean air act 1993 and smoke Control areas



Ref.	Description	No
1	DOOR ASSEMBLY	1
2	CONVECTOR BOX ASSEMBLY	1
3	FLUE OUTLET CASTING (HAS FLAT ROPE SEAL ON LOWER FACE)	1
4	FLUE ADAPTOR PLATE (HAS FLAT ROPE SEAL ON UPPER FACE AND ROUND ROPE SEAL)	1
5	HINGE PINS (STAINLESS STEEL)	2
6	STOVE HINGE	2
7	AIR DEFLECTOR	1
8	DOOR CATCH	2
9	BLANKING PLATE (ASH PIT)	1
10	BOTTOM AIR CONTROL SPINDLE	1
11	TOP AIR CONTROL SPINDLE	1
12	AIR CONTROL KNOB CASTING (STAINLESS STEEL)	2
13	ASHPAN	1
14	RIDDLE BAR CASTING (C305)	7
15	RIDDLE CONTROL (200MM)	1
16	GRATE LINK BAR (8 HOLE)	1
17	LOG GUARD BARS (390MM LONG)	2
18	LOG GUARD SUPPORT CLIPS	3
19	STOVE TOOL	1
20	TOP AIR CONTROL SLIDER ASSEMBLY	1
21	BOTTOM AIR CONTROL SLIDER ASSEMBLY	1

Under the Clean Air Act local authorities may declare the whole or part of the district of the authority to be a smoke control area. It is an offence to emit smoke from a chimney of a building, from a furnace or from any fixed boiler if located in a designated smoke control area. It is also an offence to acquire an "unauthorised fuel" for use within a smoke control area unless it is used in an "exempt" appliance ("exempted" from the controls which generally apply in the smoke control area).

In England appliances are exempted by publication on a list by the Secretary of State in accordance with changes made to sections 20 and 21 of the Clean Air Act 1993 by section 15 of the Deregulation Act 2015. In Scotland appliances are exempted by publication on a list by Scottish Ministers under section 50 of the Regulatory Reform (Scotland) Act 2014. Similarly, In Northern Ireland appliances are exempted by publication on a list by the Department of Agriculture, Environment and Rural Affairs under Section 16 of the Environmental Better regulation Act (Northern Ireland) 2016. In Wales appliances are exempted by regulations made by Welsh Ministers.

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

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

The Fire Bright appliance (M108E), has been recommended as suitable for use in smoke controlled areas when burning Smokeless fuel or dry wood.

The above model is supplied from the factory, with an Air control closure 'limiting screw' which Must not be removed when the appliance is installed within a Smoke Control Area.

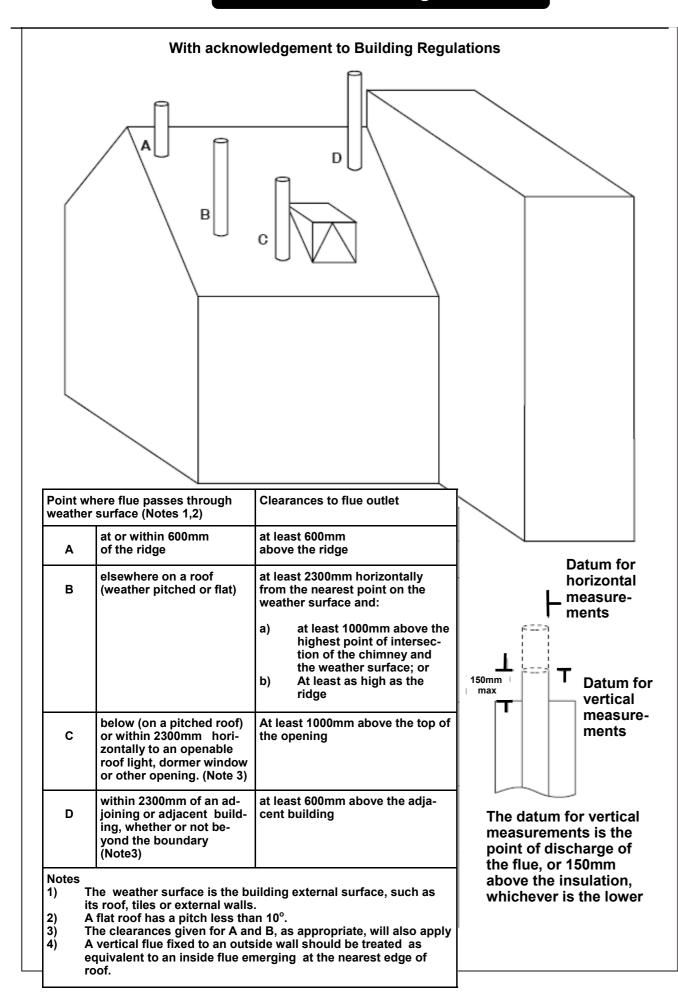
Fume Emission

Warning Note

When 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 the room and then leave the premises.
- (b) Let the fire go 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.



There are two panels of glass in each door. They are made of a heat resistant ceramic product which will not break with the heat of the fire. It is, however, important to maintain some movement of the glass within the door, in order to avoid cracking due to expansion or contraction. To achieve this, the glass is surrounded by a fibreglass ladder rope, which should be replaced if showing signs of deterioration.

CLEANING

The glass is best cleaned when cold. Light deposits can be removed with a dry cloth, and more stubborn deposits removed with a proprietary stove glass cleaner.

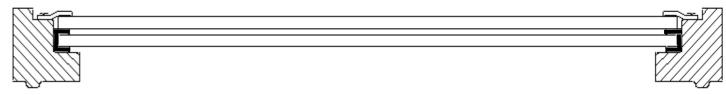
REPLACEMENT

Carefully lift the fire door from its hinge pins and lay it down - preferably on a soft surface, being aware of the door fastening catch. The outer glass panel (furthest from the fire) is mounted within a 'U' section fibre glass ladder rope which should surround all the edges. When replacing this glass panel, the ladder rope may slip out of position as the glass is fitted. A screwdriver can be slid along this area whilst lifting the glass slightly, in order to roll the rope seal back in. The second or inner panel fits directly on top of the outer, and is held by a top and bottom glass retainer with (M4 x 10mm) machine screws. It is recommended to apply some heat resistant copper grease or graphite grease to the screws and **DO NOT OVER TIGHTEN THEM** as the glass panels will crack. The stove requires both of these glass panels to be in place in order to achieve a clean

burn state, being as they act in a similar way to double glazing in a domestic window.

RUN SCREWDRIVER ALONG
TO SEAT 'U' SECTION ROPE

LIFT GLASS SLIGHTLY



Flue Outlet Configuration

Maintenance

Daily Routine

DAILY

Ensure that the stove door is attached correctly and will shut safely before use.

Check on the amount of ash in the ashpan and empty if necessary.

Run the stove hot for a period to ensure optimum temperature is reached. This will assist in cleaning any marginal deposits of tar from the door glass, stove, flue and chimney internally.

WEEKLY

Check any rope or fire cement for soundness. Lubricate the door catch if needed with a high temperature or graphite based lubricant.

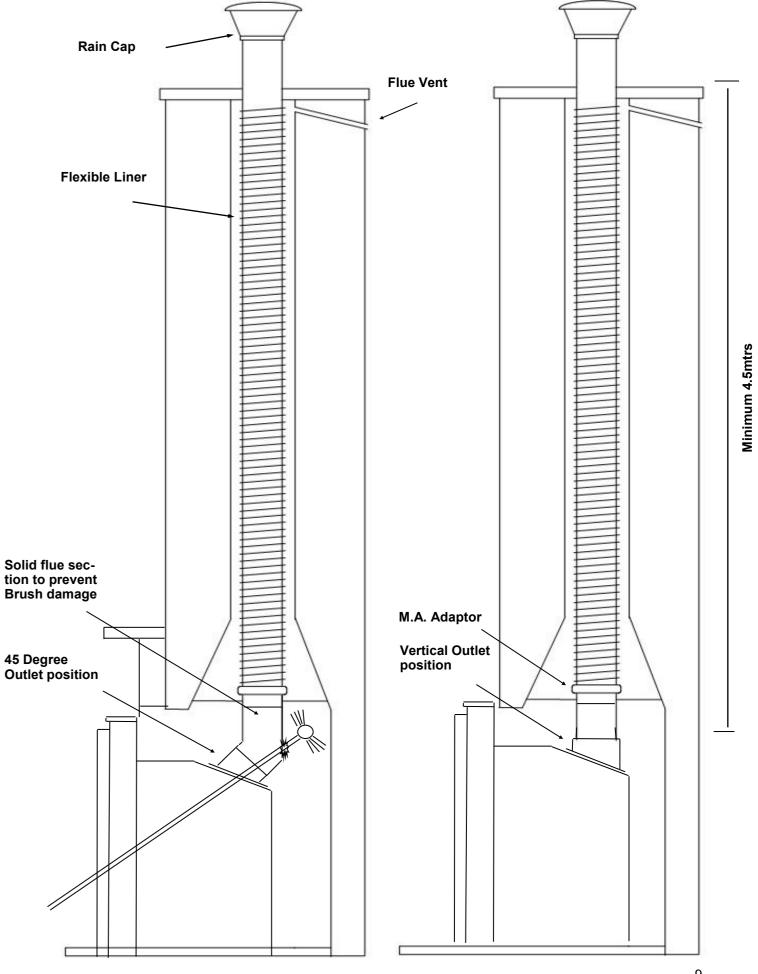
Ensure that any Tertiary air holes (Row of holes in the rear fireboard) are unobstructed by ash / soot. These can be hoovered out when the stove is cold or the rear board removed and cleaned (see Pre installation section - Fire board removal)

Ensure that the ash pit is clear of ash all the way to the rear, by removing the ashpan and checking. Also clear any clinker or nails from the grate bars, link bar and supports.

TWICE YEARLY

Check the condition of the fireboards / seals and replace if deteriorated. Remove and clean over the baffle and clear flue ways, (more often if burning solid fuel). A visit from the chimney sweep will remove the small amount of ash dust which forms in the chimney. (see last page for contact details).

If the stove is to be left unlit for any period of time, ensure the air vents are left open, and that the controls and door catches are well lubricated and treated with rust preventative. Maintain the paint surface solely with a soft dry cloth and nothing more. The paint used is both durable and heat proof but is porous and therefore not waterproof. Before lighting the stove after a long period out of use, check that all flue ways are clear of obstructions.



Pre - Installation

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Care must be taken not to damage the underside Air controls when moving the stove on trucks.

General

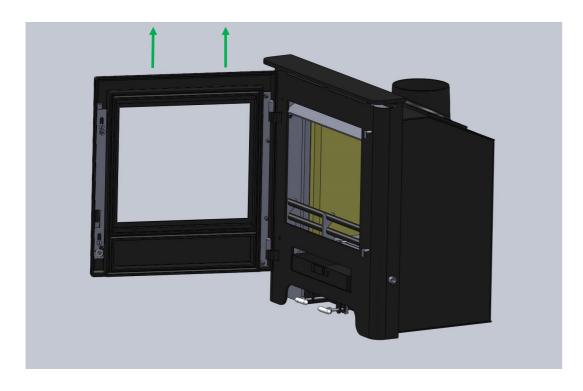
Installation is best performed with the door and internal components removed prior

PACKING LIST

- Instruction booklet (with stove registration form)
- Leather Glove (necessary for handling stove when hot)
- Stove tool (for grate riddle, air control operation and ashpan carrying)
- Log Guard (bars sat on supports -help retain fuel when door is opened)
- Fire Board set (material that lines the firebox take care this is easily damaged
- Ash pan (aids removal of burned fuel waste)

Door removal

Once opened, grasp the door top with both hands and swing the door gently whilst lifting. This will allow the door and hinge pins to slide upwards, then come away from the stove body.



Appliance continued

Symptom	Cause	Solution
	Paint coat is curing on stove	This does occur on initial lightings. Ventilate the room during curing
Strong smell after lighting	Creosote is being produced in the flue due to wood moisture level above 20% or continuous use at a low temperature	Use wood with less than 20% Moisture Use at higher temperature for at least short periods each time the stove is lit in order to bake off deposits
	Twin wall flue insulation has become damp inside If this smell disappears quickly, it may be only atmospheric moisture. If not The flue/ chimney may be leaking in water	If continuous, have flue/ chimney system exam- ined.
Chimney Fires	Tar has formed due to burning wet wood or appliance run at low temperature General lack of chimney cleaning	In all cases Close the appliance air controls right down and ensure the door is closed in order to help starve the chimney fire of air After a chimney fire Chimney or flue will need inspecting / sweeping Consult your installer

Symptom	Cause	Solution
	Blocked air vents or ex- tractor fans creating nega- tive room pressures	In all cases Ventilate room and allow fire to go out. Unblock vents / turn fans off
Continuous smoke spillage into room during running with door closed	Vents sited in unsuitable places can add to negative room pressure problems	Have Chimney/ stove Inspected If problem persists Consult your installer
(continued)	Weather conditions or flue terminal position can effect performance	Consult your installer
	Down draught condition caused by nearby trees, buildings	Consult your installer

The Log guard bars can be removed, and the support clips lifted out from their slots.





Appliance

Symptom	Cause	Solution
	Wood moisture level above 20%	Use wood with less than 20% Moisture
Inside of stove and glass dirty	• •	Use at higher temperature for at least short periods each time the stove is lit in order to bake off deposits Avoid loading the stove up when firebox temperature is too low or starving a fuel load of air

Fire Board removal

The interior of the fire chamber is lined with 30mm Mica based fire resistant board. This helps protect the stove and maintain efficiency. There are four pieces comprising of 2no side boards, a rear board and a baffle board.

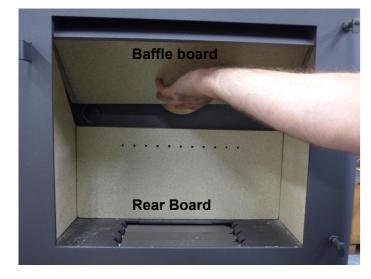
They are very fragile and require **handling with care**, especially when refuelling the stove. These are considered a consumable product and as such, are not covered by warranty.

Step 1

With all internals removed (including Log clips), lift the Baffle board in order to remove the Rear board.



With the Baffle board supported, remove a Side board by pulling the bottom out, as shown.





Step 3
The Baffle board is then removed as shown, followed by the final Side.

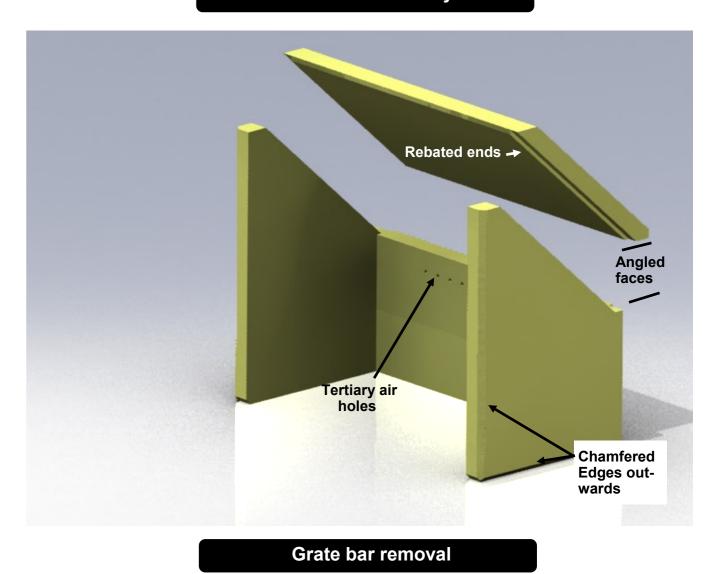


Symptom Cause Solution Refuelling onto a cold fire **Ensure that good embers** bed and or adding too exist prior and reduce size much fuel of and amount added Excessive smoke pro-Operation with the door The appliance door must duced from Chimney be closed except when releft open fuelling Reduce settings but note: Air control/s too far open (Starving a fuel load of air can result in poor / dirty combustion) Use wood with less than Wood moisture level above 20% causing 20% Moisture excessive smoke Low flue draught Have Chimney swept / (blocked flue) inspected **Excessive smoke spillage** Insufficient initial fuel load into room at lighting Use plenty of kindling / inmeans constant door termediate fuel and allow stage opening when flue is cold, to burn away well prior to flue draught is low and fire refuelling is creating more smoke Allow time for flame length to reduce and fire Opening door at high fire when long flames exist to settle prior to refuelling. Poor, blocked flue Continuous smoke spill-Flue leaking in air, In all cases age into room during runreducing draught Ventilate room and allow ning with door closed fire to go out Have Chimney / stove Stove seals/ parts missing Inspected & swept or damaged If problem persists Consult your installer Baffle board incorrectly placed or blocked Flue size too large or not tall enough

Smoke emissions

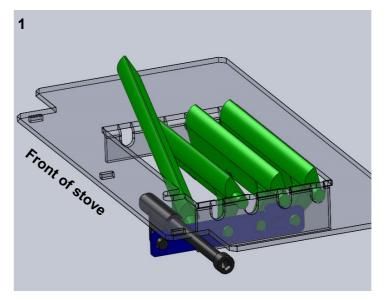
Operation

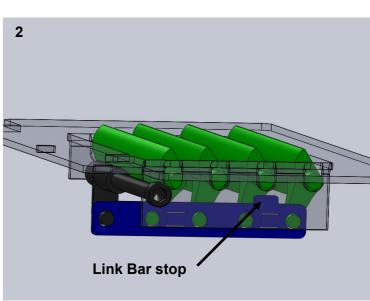
Symptom	Cause	Solution
	Wood moisture level above 20% (blue smoke seen from chimney)	Use wood with less than 20% Moisture (Short, well split logs stored under cover with sides open dry the quickest)
Difficulty lighting	Large fuel added too quickly	Use intermediate size of wood prior to full logs
	Low flue draught	Have Chimney swept / Inspected
		If problem persists Consult your installer
Low heat output Or	Wood moisture level above 20%(blue smoke seen from chimney) or poor quality fuel	Use wood with less than 20% Moisture Change fuel type for higher quality
Excessive fuel consumption	Wood too dry (always measure moisture level in the centre of a log)	Avoid wood that is below 10% moisture. It burns too quickly and un-cleanly
High heat output	Air control/s too far open	Reduce settings but note: (Starving a fuel load of air can result in poor / dirty combustion)
and excessive fuel consumption	Fuel load too large	Do not overload as heat damage can occur
Likely damage!	Flue draught too high	Consult your installer



The Grate bars (green) can be removed individually by opening the grate to the position shown in diagram 1 & 2. The left hand end of each bar can now be lifted to disengage the remaining end from the Link bar (blue).

Note that if the link bar (blue) is removed, it has to be installed with the stop (arrowed) to the rear of the stove and facing upwards. Failure to do so will result in the grate becoming continually disconnected.





Installation Instructions

Extractor fans or cooker hoods must not be situated within the same room as the appliance, as these can cause the appliance to emit fumes.

This stove should not share a flue with another appliance.

Remove Stove from the Cassette Box

Separate the stove from the cassette box by removing the 2no M8 screws holding the Flue Connector, the1no M8 screw, and 15mm Dia. spacer in the Ash pit. (Reinsert the spacer on reassembly)





Cast Flue Outlet - position

Once the stove is removed, access can be gained to inside of the cassette box. Bend back the locking tabs and undo the Long Nuts in order to remove the Flue Outlet. The Outlet can be positioned either vertically, or swept back at 45 degrees.

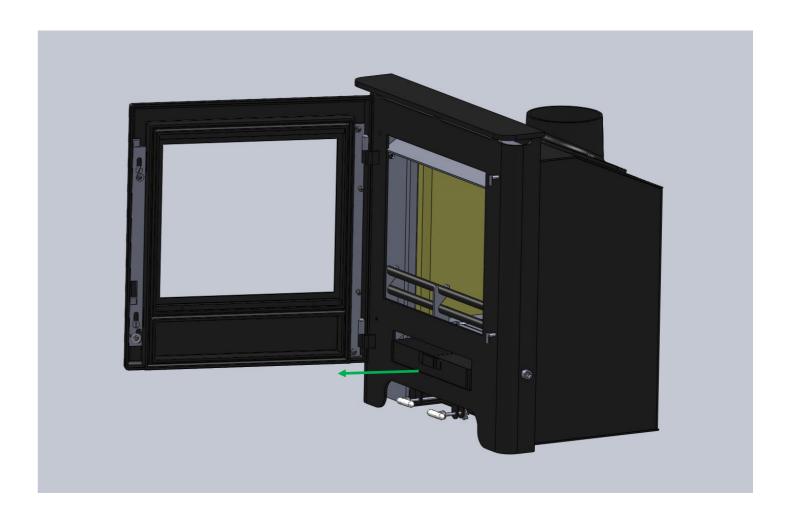
Note: The Locking tabs must be re-engaged with the nuts during reassembly!



It is beneficial to leave a good bed of ash within the stove. This also offers extra protection to the grate and fireboards.

Do not allow ash to build up below the grate. This can cause the grate to overheat.

When full, the ashpan can be removed by opening the door and inserting the lifter part of the tool into the ashpan, forming a handle.



Fire Risk - Only dispose of ash into a non-combustible container and remove from inside the building.

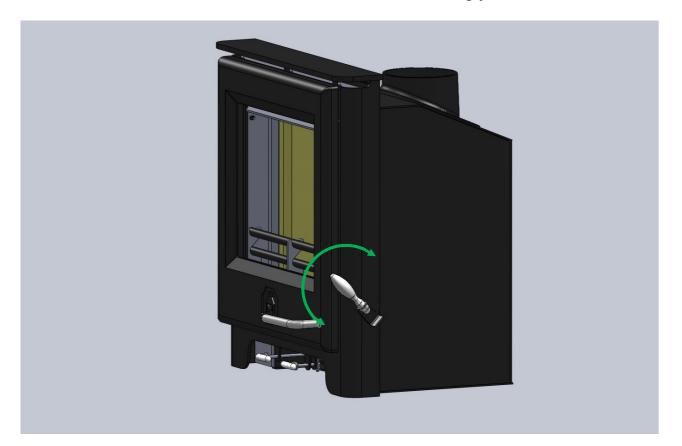
Fuel consumption

The table below is a guide to the volume of fuel required per hour, for a given output. It must be realised that these figures are approximate and do not allow for variables such as fuel quality, flue or atmospheric conditions.

Appliance type	Kg/hour Wood	Kg/hour Smokeless Fuel
Bright 5kW	1.5	0.7

De-ashing

With the door closed, the ash can be riddled down into the ashpan below the grate. The Riddle control is operated with the tool supplied. If rotated in a light shaking motion, ash can be removed, and larger solid deposits will stay on the grate, rather than jam the grate operation. These can be further burned or removed accordingly.



Connecting the flue

Fix the Flue Outlet to the liner using Stainless Steel Self Tapping screws.

After checking that the rope seal is in place, pull the Liner up temporarily, whilst the Cassette box is positioned.



Installing the Cassette box

The prepared opening should allow for at least 50mm of insulation around the sides, rear, and top of the cassette. This is necessary to achieve the correct heat output.

Rockwool slabs are an easy solution. Loose fill can alternatively be used, but in either case, the Cassette is fixed in place to prevent it moving out of the opening.





Flue connection to stove

Pull the flue outlet and liner down until the protruding threads come through the Cassette box. Re-fix the Long Nuts and bend down the locking tabs (arrowed).

Ensure that the pre formed circular 8mm Rope Seal is present (arrowed).





Flue connection to stove

Insert the stove into the Cassette box.

It may be useful to adjust the levelling bolts before fully inserting the stove.

Align the Flue Connector, ensuring that it compresses the rope seal (arrowed), then re-fix with 2no M8 x 25 set screws. Replace the 1no M8 x 20 set screw in the Ash pit area.



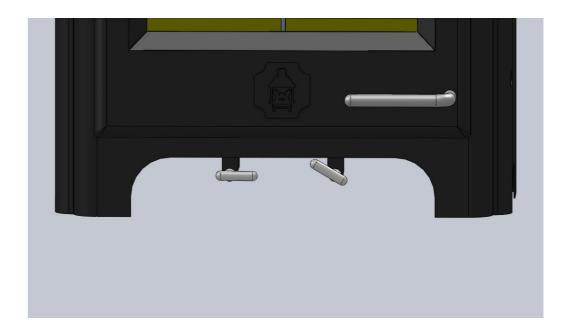


It is necessary to add further loose fill around the flue liner at the top of the Cassette Box, particularly on external chimney situations. The liner may need shaking to help loose fill fall completely down to the stove.

Wood burning

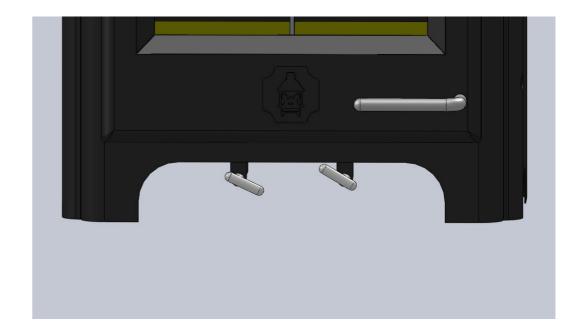
As the flue draught increases, reduce the air settings and add intermediate sized fuel. The Airwash alone can often be used at this stage, as extra air can serve to push heat up the flue rather than increase firebox temperature.

Only add fuel when the existing load has reduced to a short flame length.



Solid fuel burning

Solid fuel often requires a little bottom air to permeate up through the fuel, in addition to that supplied by the Airwash. Certain wood fuel loads can at times benefit from the same settings, in order to give a quick boost.



Lighting

Step 1

Place newspaper or firelighters on the grate and arrange small dry kindling above small dry logs in the manor shown.

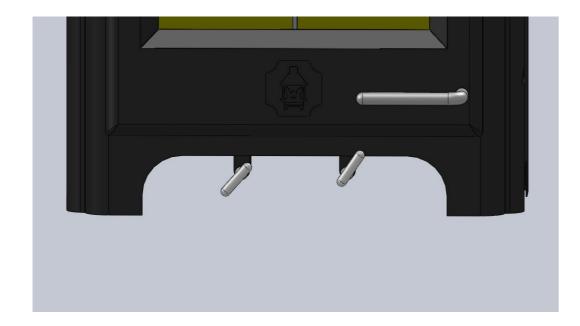
This 'Top Down' lighting method is a cleaner way to light a stove, and the initial volume of larger fuel will help reduce the need for constant attention.





Step 2

Open both air controls fully and light the paper or firelighters at the base of the fuel. Strong flue draughts may only require the right hand (Airwash) control for lighting. Close the door and allow the fuel to catch and burn down well.



Re-assembly

Replace the relevant internal components in reverse order of removal in the Pre-Installation section (detailed in pages 10 -13).

Ensure that the Rear board has the Tertiary air holes uppermost, and chamfered edges outwards at the bottom. Also ensure that all connections and seals are made sound.

Door Adjustment

Rehang the door ensuring that the door catches operate correctly and that the door rope seal is good. A good rope seal is achieved when a piece of paper can be very lightly gripped between the closed door and stove body, when tried in various places.

A rope that is not brittle can be plucked out of it's groove to remake the seal, particularly if over compressed in certain areas.

Although factory set, the catches can be adjusted if required by first slackening the lock nut, and then turning each catch a full turn. Retighten the lock nut before closing the door.



Commissioning

CO Alarm

All open flued appliances can be affected by atmospheric conditions, which can give rise to fumes entering the house. Building regulations require that a carbon monoxide alarm is fitted in the same room as fixed solid fuel or wood burning appliance, whether it be a replacement or new stove.

The alarm should be fitted according to the manufacturer's instructions. Further guidance is available in the latest edition of BS EN50292

Flue Draught Test / Smoke test

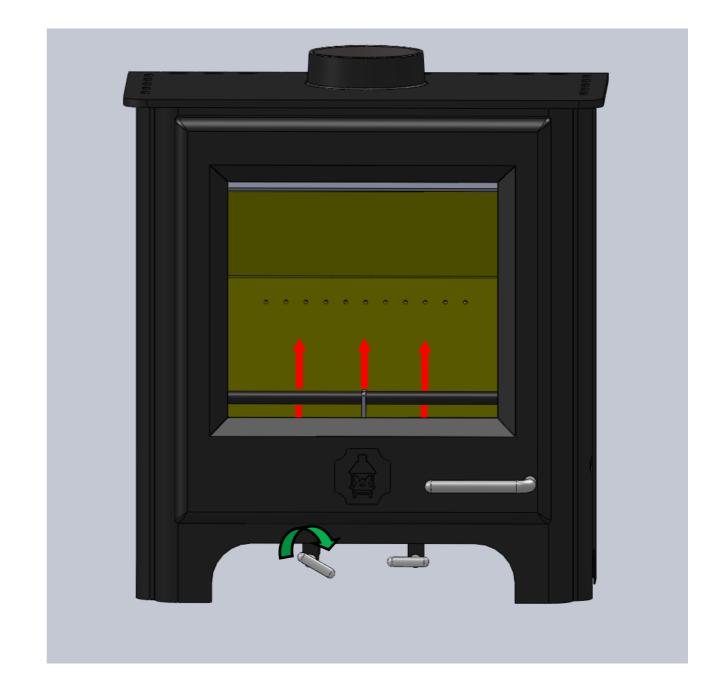
For efficient stove operation, it is important to make sure that there is an adequate draw on the chimney. These readings can be taken by removing the blanking screw and using the test hole (opposite side to riddle control). The test should be performed with both the fire door and air controls closed.

A minimum flue draft reading of 0.1mbar (0.04"wg) when warm, increasing to 0.2mbar (0.08"wg) when hot, should be obtained.

An alternative means of testing the suitability of the flue system is the Smoke test as follows:

- Warm the flue with a blowlamp for 10 minutes
- Place a smoke pellet centrally on the grate with the air controls open
- With the door closed, smoke should be seen to be drawn up the flue and exiting the flue terminal
- The test should be undertaken with all doors and windows closed within the room containing the appliance
- Repeat the test with extractor fans in adjacent rooms running at maximum and interconnecting doors open
- With a small fuel load, the appliance should now be lit and allowed to reach operating temperature. During
 this period, the paint will become soft and cause a haze as it cures. It is advisable to ventilate the
 room and observe from a distance as this occurs.
- Once a good temperature is reached and the fire has settled to low flames, open the fire door and check for excessive spillage around the door opening with a smoke match or pellet

The control on the left (Bottom Air) introduces air upwards, through the grate and opens in the direction arrowed.



If excessive spillage occurs, allow the appliance to cool then re-check the flue and ventilation provided

For more advice Refer to Troubleshooting on pages 29, 30

Large air settings can produce damaging temperatures to the stove but can also push wasted heat up the flue. This will be apparent if you look at the speed, colour and ferocity of the fire.

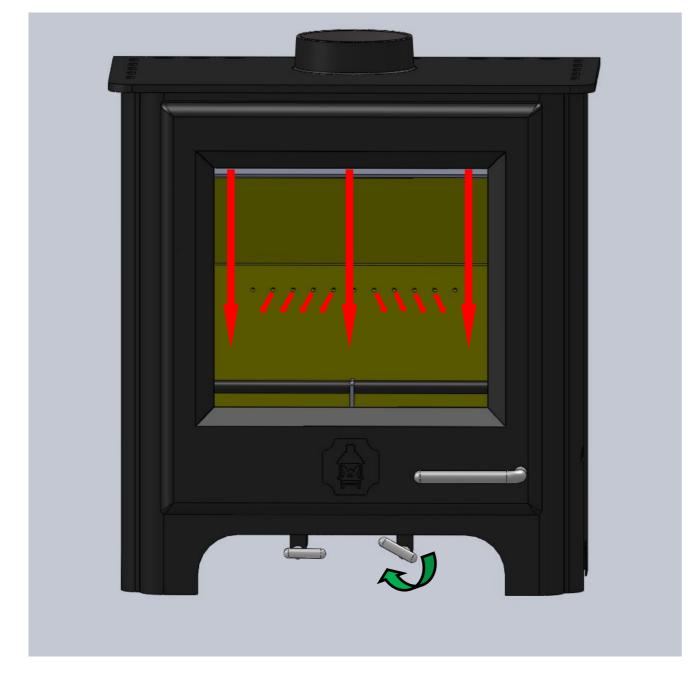
DOOR OPERATION

The stove door is opened by lifting the handle upwards to disengage the catch, and pulling the door by the handle to open it.

It is advisable to use the glove supplied, as all parts will be hot.

AIR CONTROLS

The stove has just 2no Air controls. The control on the right (Airwash) introduces air down the glass, as well as through holes in the rear. This is the main running control and opens in the direction arrowed.



Commissioning Checklist

X

Please complete and leave with the customer in order for them to return to us. This form serves as product registration/guarantee.

Stove de	etails	
Model number and serial number of stove M (Found on the data plate located on inside of the	door - also on the front of	f this booklet)
Date of Purchase		
Date of Installation		
Supplier	details	
Suppliers Invoice		Num-
ber		
Name		
Address		
Phone Number		
Installer o	letails	
Name		
Address		
Phone NumberInstal	ler Registration Number	r
Commissioni	ng checklist	
Flue system correct for the appliance	YES□	NO□
Flue clean and soundness checked	YES□	NO□
Spillage test undertaken	YES□	NO□
Adequate clearance to combustibles checked	YES□	NO□
CO alarm present and working correctly	YES□	NO□
Controls and operation explained to customer	YES□	NO□

Instruction book handed to customer.....YES...□.....NO...□

Signature......Print name......

Affix Stamp

Stove Registration & Guarantee Department
METAL DEVELOPMENTS LTD
Victor House
Greenham Business Park
Wellington
TA21 0LR

User Instructions

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This appliance must only be used with the door closed

Choosing the correct fuel

The quality of fuel that you choose has a massive effect on stove performance and fuel efficiency. We therefore recommend that you consider the following:

- Dry Wood means no more than 20% moisture. Above this level, heat is wasted to create steam. Wood burned at 65% moisture could take three logs to produce the heat of one dry log, if it burned at all. Wood at 35% moisture could waste one log out of every three burned. Damp wood will ruin both the flue and appliance quickly, wasting even more money.
- Burn only Anthracite or manufactured smokeless fuels approved for closed appliances. Do not burn Petro-coke or bituminous coal as this will invalidate the guarantee.

General

- This appliance will become very hot when used, avoid touching with bare skin, always use the operating tool and/or glove where supplied.
- Use a fireguard to keep children and/or old or infirm people safe, the fireguard should be manufactured in accordance with BS 8423:2002.
- Fuel should not be stored on, under or near the lit appliance as this could result in a fire. This includes stoves with a 'Log store style' base, Plinth or Pedestal
- Do not use aerosols near or on the appliance whilst under fire.
- Do not obstruct any ventilation required for the appliance.

THE WOODWARM STOVE SERIAL NUMBER CAN BE FOUND ON THE DATA PLATE FIXED TO THE REVERSE FACE OF THE DOOR.

QUOTE THIS NUMBER WHEN ORDERING PARTS.