



Firewarm 4KW Insert

HD Insert Stove 04D

**MULTI FUEL
INSERT S T O V E
FOR STANDARD 16" FIREPLACE
OPENING**

Installation and Operating Instructions

Please hand these instructions to the stove user when the installation is complete. Leave the system ready for operation and instruct the user in the correct use of the appliance and operation of controls.

Installation – We strongly recommend installation by a qualified plumber or suitably qualified fitter

Assembly Instructions

PLEASE READ THESE INSTRUCTIONS CAREFULLY

It is important that your stove is correctly installed, as HD Insert Stoves cannot accept responsibility for any fault arising through incorrect installation.

The HD Insert Stove is only suitable for installation in a solid fuel fireplace; the fireplace must be capable of withstanding the high temperatures generated by this stove.

Your HD Insert Stove comes packed in a box or crate



Carefully remove straps and lift off the upper box or crate



Remove the plastic bag and, upon opening the door, remove all the contents.

1. Secure the Fixing Bar and the tightening screw to the rear of the appliance



2. Open sealing kit supplied and glue sealing rope into channel on rear edge of appliance. Some types of fire cement/glue are caustic and should not be allowed to come into contact with the skin. In case of contact, wash immediately with plenty of water.



3. Remove the grate. Place the insert stove in position on the hearth and push it flush against the fireplace fascia; marking the intended position of the fixing screw in the fireplace through the hole in bottom of the appliance. Remove the stove and drill a hole, insert the rawl plug supplied. Re-position the stove and screw into place.



4. Create a seal with the fascia of the fireplace. Remove the baffle plate. Place hand through the stove flue collar and tighten the wing nut on the tightening bar. The fixing bar creates pressure when it contacts the chimney/lintel. The stove should be tightly sealed to the fireplace fascia.



List of Components

Description of Parts

Door Handle	1
Airwash Control Handle	1
Primary Air Caps	2
Ash Pan	1
Ash Pan Tool	1
Coal Guard	1
Baffle Plate	1
Fixing Bar	1
M8 Bolt	1
M8 Nut	1
Tightening Screw	1
Wing Nut	1
M6 Bolt	1
M6 Nut	1
Floor fixing bolt	1
Rawl Plug	1
Stove Glove	1



Installation Instructions

READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION

These instructions cover the basic principles to ensure satisfactory installation of the stove, although detail may need slight modification to suit particular local site conditions. In all cases the installation must comply with National and European Building Regulations, Local Authority Byelaws and other specifications or regulations as they affect the installation of the stove.

Health and Safety Precautions

Handling

Adequate facilities must be available for unloading and site handling.

Fire Cement/Glue

Some types of fire cement/glue are caustic and should not be allowed to come into contact with the skin. In case of contact, wash immediately with plenty of water.

Asbestos

This stove contains no asbestos. If there is a possibility of disturbing any asbestos in the course of installation then please seek specialist guidance and use appropriate protective equipment.

Metal Parts

When installing or servicing this stove, care should be taken to avoid the possibility of personal injury.

Please note:

Any white deposits on the stove joints are caused by humidity reacting with the joint sealant. These deposits may be brushed off and, if necessary, blackened with a proprietary stove polish.

Important Warning

This stove is suitable for use in a standard 16" solid fuel fireplace opening. This stove is only suitable for use in a fireplace and/or chimney that has been fitted for use with solid fuel. The fireplace back panel and hearth must have the necessary expansion joints and back filling for solid fuel use. This stove must not be installed into a chimney that serves any other heating appliance.

The floor on which the appliance is installed must be of adequate load bearing capacity. If it is not, suitable measures (e.g. a load distribution plate) must be employed.

No purpose provided ventilation is required for stoves rated under 5KW. For each KW above 5KW, 550 sq mm of fixed ventilation is required – i.e. a stove rated at 8KW would

require 3 x 550 sq mm = 1650 sq mm of fixed ventilation. If more than one appliance is installed in the same room, the ventilation requirements for each appliance must be added together. If ventilation grilles are installed ensure they are free from any potential blockage.

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

This appliance must not be used as an incinerator.

Installation

Chimney

The chimney height and the position of the chimney terminal should conform to Building Regulations. Check that the chimney is in good condition, dry, free from cracks and obstructions. The diameter of the flue should not be less than 150mm and not more than 200mm. If any of these requirements are not met, the chimney should be lined by a suitable method. The chimney must be swept before connection to the stove.

Where the chimney is believed to have previously served an open fire installation, it is possible that the higher flue gas temperature from the stove may loosen deposits that were previously firmly adhered, with the consequent risk of flue blockage. It is therefore recommended that the chimney be swept a second time within a month of regular use after installation. If you have any doubts about the suitability of your chimney, consult your local dealer/stockist.

If there is no existing chimney then either a prefabricated block chimney or a twin-walled insulated stainless steel flue to BS 4543 can be used. These chimneys must be fitted in accordance with the manufacturer's instructions and Building Regulations.

Flue Draught

A flue draught of minimum 12 Pa to a maximum 25 Pa 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.

Connection to the Chimney

It is essential that all gaps between the stove and fireplace fascia or chimney-flue are sealed and made airtight. This appliance is not suitable for installation in a shared flue system.

The chimney must be accessible for cleaning. This insert stove should be removed at least once a year and cleaned.

Material Clearances

All non-combustible walls closer than 400mm to the stove should be at least 75mm thick. In all instances the back wall of the fireplace recess and the hearth should be made of non-combustible material. 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 and should be in accordance with the current building regulations.

Safety Distances from Combustible Surfaces:

	Side/Front	Top
HD Insert 4KW Stove	275mm*	275mm

**The HD Insert 4KW stove can be situated 200mm from the side of a wooden fireplace mantel if the mantel is flush (or less deep) with the front of the appliance*

Commissioning and Handover

Upon completion of the installation, allow a suitable period of time for any fire cement and mortar to dry out. A small fire may then be lit and checked to ensure the smoke and fumes are taken from the stove up the chimney and emitted safely to atmosphere. Do not run the stove at full output for at least 3 – 4 days.

On completion of the installation and commissioning, ensure that the operating instructions and operating tools 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 on what to do should smoke or fumes be emitted from the stove. The user should use a suitable fireguard in the presence of children, aged and/or infirm persons.

HD Insert 4KW		Wood	Solid Fuel		
Nominal heat output:	kW	4.3	3.9		
Efficiency	%	80.9	75.3		
CO Emissions (@13% O ₂)	%	0.67	0.56		
Appliance weight:	kg	82	82		
Flue gas mass flow:	g/s	2.9	3.8		
*Flue Temp:	°C	215	162		
*under nominal heat output					

Operating Instructions

This appliance is **not** suitable for use in a shared flue.

This appliance should **not** be operated with the doors open.

This appliance is capable of intermittent operation.

Aerosol Sprays

Do not use an aerosol spray on or near the stove when it is alight.

Air Controls

This stove has been designed to burn clean and efficient. If used correctly this stove will burn far more efficiently than normal with the obvious notable features of CLEAN GLASS. Never clean glass when stove is hot. Always use stove glass cleaner which is available from your stove retailer.

However, for this product to work properly it must be used correctly.

It is essential that the stove has an adequate air supply for combustion and ventilation.

The primary and secondary air inlets must be kept clear from obstruction.

Note:

The secondary air control is open when pushed to the right.

Warning! This appliance will be **hot** when

In operation and due care should be taken

When operating the controls.

Air Controls

Primary Air

Primary air is controlled via the two rotary air controls on the bottom of the door.

This provides a conventional air draught to the bed of the fire. The primary air intakes can be adjusted to give the best possible results when burning different fuels.

Secondary Air

The cast iron stove is fitted with a sophisticated “air wash” system. This secondary air supply to the stove is controlled through a slider assembly located at the top of the stove.

Grate

Your HD Insert Stove is fitted with a removable cast iron grate. It is important to de-ash regularly, to ensure that the primary airflow is not impeded, as a build-up of ash can damage the cast iron grate.

Ashpan

It is essential that you empty the ashpan regularly. Use the “T” end of tool to lift the ashpan out of the stove.

Notes on burning Wood

With a full load of wood, the stove will need to be refuelled approximately every 1.5 hours. Wood can be stacked higher in the stove than solid mineral fuel but care must be taken that logs do not touch the baffle.

Wood burns most efficiently with the primary air controls closed and the secondary control partially open. Moving the secondary control will control the burn rate of the stove.

Note – primary and secondary air is needed to light the stove, see section entitled ‘Lighting the Stove’.

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. Do not use liquid fuels in this appliance.

Size of Fuel

Maximum Log Size

HD Insert Stove 4KW	200CM
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Notes on burning Solid Fuel

Before refuelling, it is important to de-ash the grate. When burning solid fuel, the ash pan should be emptied at least twice a day or when the level of ash reaches the top of the ash pan. On no account should the ash be allowed to build up to touch the grate as this will greatly shorten its life.

When lighting the fire, set the secondary air setting to one quarter open position. Set the primary air setting to the fully open position. Light in the normal manner with paper and kindling, or use a fire lighter.

When the fire is well alight regulate the burning rate by adjusting the setting on the primary air inlet control. The air wash can be opened sufficiently to keep the door glass clean

Approved smokeless coal is recommended for use in this appliance. At first you may find it helpful to try several fuels to find the most suitable. If you are unable to obtain the fuel you want ask your supplier, or an approved fuel distributor to suggest an alternative.

Take care to only burn good quality fuels in order to obtain the greatest efficiency and to maintain the life of the appliance.

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 in steadily and to give a long service life of the paint finish. During this curing in process you may notice an unpleasant smell. It is non-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 sticks and/or firelighters in the mode chosen, either wood or solid mineral fuel.

Light the fire at the 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.

Shutting Down

In order to shut down the stove, close the primary air controls, then close the secondary air slider by moving the handle all the way to the left. If the controls are left in this position, the fire will be starved of air and will go out. If you want to revive the fire it is recommended that the primary air controls are open first, then open the secondary air slider.

Warning! - The stove will remain **hot** for a considerable time after the fire has been extinguished.

Warning! - Petroleum coke fuels, household waste or liquid fuels must not be burnt on this appliance.

Should any difficulties arise over fuel quality or suitability, consult your local approved fuel merchant.

Safety Notes for your guidance

FIRES CAN BE DANGEROUS – Always use a fireguard in the presence of children, the elderly or the infirm.

DO NOT OVERFIRE – 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 first adjusting the controls to a safe setting – careful air supply control should be exercised at all times.

Any unauthorised modifications of this appliance will render the guarantee null and void and could be potentially dangerous. Replacement parts should only be sourced from approved dealers

WARNING – FUME EMISSION

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 the following immediate action should be taken: -

1. Open doors and windows to ventilate room
2. Let the fire out, or eject and safely dispose of fuel from the appliance.
3. Check for flue chimney blockage and clean if required.
4. Do not attempt to re-light the fire until the cause has been identified and corrected.

If necessary, seek professional advice.

Important! – Do not fit an extractor fan in the same room as this appliance.

IN THE EVENT OF A CHIMNEY FIRE

- Raise the alarm to let others in the house know.
- Call the Fire Brigade
- Reduce the appliance-burning rate by closing all air controls.
- Move furniture and rugs away from the fireplace and remove any nearby ornaments.

- Place a fireguard or spark guard in front of the stove.
- Feel the chimneybreast for sign of excessive heat.

If the wall is becoming hot, move the furniture away. Ensure that the Fire Brigade can gain access to your roof space in order to check this area for signs of fire spread.

Frequently Asked Questions

1 Do I need a fireplace suitable for solid fuel?

The HD Insert Stove can only be installed in a fireplace that is suitable for burning solid fuel.

2 Do stoves require a chimney?

All of our multi fuel and wood burning stoves require a suitable chimney or professionally installed flue system.

3 How do I clean the chimney?

You will require a chimney sweep to clean the chimney. It is highly recommended that the chimney is swept annually.

4 Who should install my stove?

HD Insert Stoves want you to enjoy the maximum performance from your Stove products. To ensure this, it is essential that they are installed correctly. We strongly recommend that your HD Insert Stove is installed and regularly maintained by a qualified heating engineer.

5 How do I regulate the heat output?

Each stove will have spin valves, which will allow you to easily regulate the heat output.

6 What warranty policy do I get?

HD Insert Stoves will replace, free of charge, any working part that fails (under normal operating conditions) within 12 months of purchase. Consumables such as glass or stove rope are not guaranteed.

A call out charge will apply if our engineer attends any stove problem that is not related to product failure.

7 Where can I get spare parts?

Your local HD Insert Stove retailer will be pleased to supply spare parts and to provide any other information you require. (Only use replacement parts recommended by the manufacturer).

8 Can the doors be left open while burning?

For safety and heat efficiency the doors should remain closed at all times except for ignition, de-ashing and loading the firebox.

9 Why is the stove smoking when lit?

A smoking stove can be caused by a flue with back draught problems. A qualified fitter should complete a smoke test prior to fitting the stove to ascertain the integrity of the flue. Alternatively, the insert stove may smoke if it is not sealed correctly to the fireplace fascia.

10 Why should I “Run in” my stove?

To begin, light a series of small fires over a period of a few days to allow the paint finish to cure. 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 proprietary stove paint

If the stove is not “run in” correctly, this may cause the paint to discolor and flake.

11 What is Over Firing?

Your stove should never be used in a manner to cause over firing. Over firing can be caused by over loading the stove with fuel, and with primary controls open. If any part of stove glows "red" your stove is over firing and your draught control should be adjusted to restrict airflow to stove. Over firing can cause permanent damage to the appliance which is not covered by warranty.

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