Dean Stoves

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Operating Instructions for the Dean Forge Clearburn Double Sided Junior, Small and Medium Stoves

(CBD issue 1. 1st Feb 2016)

All stoves meet the essential type test requirement BS EN13240:2001 + and 2:2004, CE marked

Unpacking Stove

The baffle plates will be found on the base of the stove and will need to be positioned as per diagram. Check position of bricks. The secondary air control knobs will be found inside the stove stored with a glove and the instructions and will need screwing on.

Safety Note

Warning- The external parts of the appliance will get very hot to the touch and due care will be needed when operating.

All stoves before being operated must be checked that the installation complies with all local, national and European standards.

Before the stove is first used or when fitting other appliances into the room, please check that adequate air vents are in place to cover the requirements of such appliances.

Extractor Fans. When operating an extractor fan in the same room or space as the appliance the extractor fan could cause the stove not to function properly and pull dangerous fume into the room. This must be checked by a trained qualified engineer before using the stove

Wood & Suitable fuels

Dry wood, 18% moisture content or below must be used or the stove and flue will tar up and the door won't stay clean.
Wood is best seasoned by splitting it into a log and dried for 2 years in a covered area allowing air to pass through. Peat can also be used but must be dry.

Maximum Log Length	Maximum Log Diameter
400mm	100mm

Please Note: Appliances should not be used as general incinerators or with non-recommended fuels.
At no time should liquid accelerants i.e: Paraffin, Petrol, BBQ lighting liquid Etc be used.

The chimney needs to be swept at least once a year.

Door Operation

The door handles can become very hot so use the glove provided.
Cage Handles: When closed the door handle will be at approximately 45° away from the door, about ¼ of a turn anti- clockwise to open.
Bar Handles; When closed the door handle will be pointing down and straight with the door. To op[en the door turn the handle about ¼ of a turn anti clockwise.

Controlling the stove

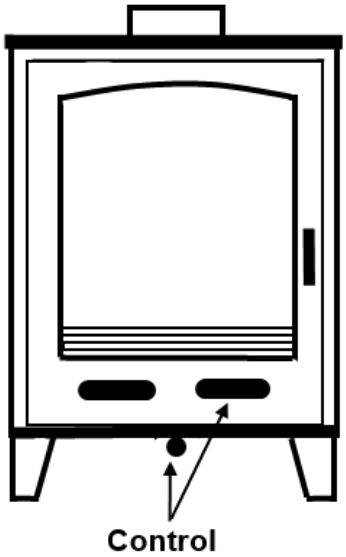

Diagram A:

Primary air controls on the front of the doors.
Secondary air control knobs between front stove legs

The primary air control slides are on the doors. These controls are used for lighting the fire or boosting the fire.

The secondary air wash control levers situated under the ash catch lips controls the preheated air wash and once the fire in the stove is established these are the control that should be used.

The secondary control knob works as follows:
Push fully in for maximum air flow into the stove and fully pull out for airflow to be shutdown. The stove is at its maximum efficiency when the lever is approximately half way.

Dampers Left Open
Operation with the air controls or appliance dampers open can cause excess smoke. The appliance must not be operated with the air controls, appliance dampers or door left open except as directed in the instructions.

Lighting The Stove When Using Wood

Please Note:
When lighting the appliance for the first time from new the paint on the stove will cure and give off a metallic smell. You must ventilate the room ie. open the windows. This will subside fairly quickly. After the stove has been burning at a high temperature for at least 2 hours the paint should be fully cured.

Lay a fire of sticks and paper. Firelighters can be used if necessary. Check the secondary air levers are fully open and the primary air vents partially open. Light the fire from one side (through one door opening) as the fire catches the paper you may then fully open the primary air vents as required to establish the fire.

When the fire has fully established and the logs are burning well shut the primary air vents in the doors and control the fire with the secondary air wash levers (if you are unable to sustain the fire with secondary controls it is very likely that your logs have a high moisture content).

Refuelling
Only refuel from one side at a time. **Never open both door at the same time when the stove is alight.**
The appliance works best by refuelling with two medium sized logs.
When refuelling the fire, to ensure clean burning, the primary air control should be opened for a couple of minutes so that flames are established on the newly fuelled logs. The primary air should then be closed and the secondary air adjusted to create the desired flame pattern once these flames are established and the logs have become blackened.
After refuelling, it is recommended that you do not leave the appliance unattended until it is certain that the logs are burning well with a sustained flame.

Please Note: For long periods of burning you will need to use seasoned hard wood. Longer periods of burning may cause the door glass to blacken, but this can be cleared when you get the fire back up to temperature and providing the secondary air controls are slightly open this should then stay clear.

Please note:
If there is insufficient burning material in the fire bed to light a new fuel charge, excessive smoke emission can occur. Refuelling must be carried out onto a sufficient quantity of glowing embers and ash that the new fuel charge will ignite in a reasonable period. If there are too few embers in the fire bed, add suitable kindling to prevent excessive smoke

Fuel overloading
The maximum amount of fuel specified in this manual should not be exceeded, overloading can cause excess smoke.

Do not load the fuel above the log retainer.

Doors should always be closed in between refuelling to prevent fumes and spillage from the firebox. When loading the fire be careful not to leave logs projecting over the log retainer as you may crack the glass when closing the door.

Removing Ash
When the stove is in use in the winter season we suggest 25mm (1") of ash is left in the bottom when cleaning, as a wood fire burns more efficiently on a bed of ash. This is achieved by removing the log retainer and the plate under the door and shovelling the ash out into a **non-flammable container,** or we suggest using an ash clean attachment which can be plugged into your vacuum cleaner.

Warning: **Do not use your vacuum without this attachment.**

In the summer or when the stove is not being used for a long period of time, clear all the ash out and leave primary and secondary air vents open to prevent condensation.

The appliances have been assessed and are suitable for intermittent burning.

Operation with the door open can cause excess smoke. The appliance must not be operated with the appliance door left open except as directed in the instructions.

Pre-Season Check:

The chimney needs to be swept at least once a year.
The chimney must be checked at this stage for blockages before lighting i.e.: bird's nests
This is probably the time to have the chimney swept before the beginning of the seasons.
Before lighting at the beginning of the season or after prolonged shutdown periods, check the door seals are in good condition; the fire bricks are in good condition and baffle plate is in position.
If the stove has been used for a long period of time we suggest the chimney be swept twice a year.

Notes

Down draughts
In adverse weather conditions down a draught may occur this could make the stove to smoke, if this should happen shut all the stove air controls.
If this occurs on a regular basis call in your engineer.
It is possible a chimney cowl could cure this problem.

Air vents
Check periodically that the exterior ventilation grill is clear.

Servicing
All servicing must to be carried out by a qualified competent engineer on a regular basis.
No unauthorised modifications of the appliance should be carried out.
Use only replacement parts recommended by the manufacturer.

Faultfinding
If the stove starts emits fumes into the room:-
(1) Check there is no blockage or restriction in the flue.
(2) Check the external air vent is not blocked.
(3) Check the baffle plate has not dislodged itself from the stove.
(4) Call an engineer.

If the stove does not perform properly this is could be due to unseasoned/wet wood or too much ash in the firebox.
In the case of the stove malfunctioning shut all vents, open the windows in the room and let the residual fuel in stove burn out.

In the event of a chimney fire

- Call the fire brigade
- Raise the alarm to let others in the house know
- Close down all the air controls of the stove, but be careful they could be very hot
- Move furniture, rugs and other objects away from the stove
- Check the chimney breast in other rooms for signs of excessive heat and move objects away if necessary
- At all times consider the safety of yourself and others in taking the above action

Fitting Instructions for the Clearburn Double Sided stoves

Introduction

The Dean Forge Clearburn range of stoves are continuously updated. These stoves have a robust fully welded carcass with a cast iron double glazed doors. These stoves have a ceramic brick and steel lining incorporating a preheated air wash system.

Before lighting the stove check that all installation instructions have been carried out.

Health And Safety Precautions

All work must be carried out to the requirements of the Health and Safety at Work Act 1974.
There must not be an extractor fan fitted in the same room or area the stove is installed.
There must be an air vent for all stoves of 5 kilowatt and over or meet current building regulations.

Stoves must be fitted to BS8303, BS6461 PT1-2 1984 building regulations.

All local regulations, including those referring to national and European standards need to be complied with when installing the appliance.

N.B
A suitably qualified and experienced person, such as a HETAS engineer or with the supervision of building control, must fit the stove.

As with all stoves fireguards must be installed when young children are present.

Chimney

All croft clearburn stoves must have a minimum chimney height of 4m measuring from the stove outlet, the chimney must not be less than 150mm (6") internal diameter.

These stoves are not suitable to be used in a flue-shared situation.

The chimney must be in a good serviceable condition and of not too large a section," if not" a liner will have to be fitted; Stainless steel or ceramic suitable for solid fuel.

If the chimney draw is too high then a flue stabilizer will have to be installed. When the chimney is warm the draw should not be lower than 0.10 water gauge.
All appliances have been tested at 12 PA with the doors closed.

If the flue is connected directly into a existing chimney without a liner the register plate must be fitted with removable doors to facilitate cleaning. If its not possible to fit doors in the register plate then a cleaning door will need to be fitted as near as possible to the connecting length of flue in the front, side or back of the chimney breast.

Hearth, Surround and Register Plate

The stove must stand on non-flammable material at least 12mm thick (1/2”). The hearth must extend 225mm in front of the firebox and 150mm to the sides.
If the stove is installed into a fire opening made of non-combustible materials, we recommend a 150mm gap to the sides and 300mm above from non-combustible materials.

The appliance must be installed on a floor with an adequate low bearing capacity.
If the construction doesn’t meet the existing prerequisite the floor must be reinforced or a load distributing plate could be fitted, seek professional advice.

Table of distances from combustibles

Stove Type	**Minimum from side of appliance to combustibles**
Double sided Junior	800mm
Double sided Small	950mm
Double sided Medium	950mm

It may be necessary to shield a beam or mantle piece from the heat. The single wall flue from the top of the stove must be at least 3 times its diameter from combustible materials i.e. 150mm (6”) flue must be a minimum of 450mm (18”) away from combustible materials.
Be careful not to place furniture or other combustible material too close to the stove.

Register plates

Chimneys without continuous flue to the top , must have the register a plate made of 1.5mm steel treated to prevent corrosion (BS8303 part 3 9.5)
Register plates made of fireboard may only be used if a liner or flue runs from the top of the stove to the top of the chimney without a break. Always check the current building regulations.
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Flue Connection

The Clearburn Double sided stoves have one flue outlet which is situated central in the top of the stove. There is a cast spigot supplied and this must be bolted and sealed into the outlet, this will allow a started flue of 150mm diameter to slide inside, sealed and secured to the spigot.

Pre – Lighting Check and Commissioning

Check all Building Regulations have been adhered to.

The baffle plates is in the right position.

A smoke test has been done to check the chimney is clear.

Data Plate

All stoves are numbered and performance marked on a data plate which is found on a swinging arm located under the stove.

Air Vent

Under part J of building regulations an air vent of the appropriate size must be fitted for all stoves with a kw rating of over 5kw.

Very air tight properties designed with air permeability less than or equal to 5.0 m3/ (h.m2) per hour, an air vent will need to be fitted for all kilowatts.

All Dean Stove Clearburn Double sided stoves will require an air vent.

It must be considered when fitting air vents that it is taken into account any other appliance fitted within the room.

Please Note: Extractor fans when operating in the same room or space as the appliance may cause problems.
Air vent inlet grills must not be inadvertently blocked.
Air vents must not be fitted in positions where they can be inadvertently covered up.
As from the 1st October 2010 a compliant Carbon Monoxide Alarm must be fitted

Table of mean flue temperatures with closed doors

Stove Type	Flue gas temp down stream of spigot, closed doors.
	Wood logs
Clearburn Double sided Junior	327 °C
Clearburn Double sided Small	357°C
Clearburn Double sided Medium	357°C

Flue Gas Mass Flow

Stove Type	Flue gas mass flow (g/s)
	Wood logs
Clearburn Double sided Junior	7.3
Clearburn Double sided Small	10.3
Clearburn Double sided Medium	10.3

Stove Performance

Clearburn Double sided Junior	Wood burning	8kW nominal	74.3 % Net Efficiency
Clearburn Double sided Small	Wood burning	10kW nominal	73.0% Net Efficiency
Clearburn Double sided Medium	Wood burning	12kW nominal	73.0% Net Efficiency

All stoves are tested to nominal outputs and will well exceed these kilowatt ratings.

EC Declaration Of Conformity

The Undersigned, representing the following:

Manufacturer
Dean Forge Ltd Dean Prior, Buckfastleigh, Devon, TQ11 0LS

Herewith declare that the products:

Description	Product Code
Croft Clearburn Junior	STDFCRJL, STDFCRJ
Croft Clearburn Junior Inset	STDFCRJIN
Junior 105 SE	STDFJ105L, STDFJ105H, STDFJ105HWD
Croft Clearburn Slimline 5 SE	STDFCRSL5
Croft Slimline 6	STDFCRSL
Croft Clearburn Small	STDFCRSM, STDFCRSML
Croft Clearburn Medium	STDFCRM, STDFCRML
Croft Clearburn Large	STDFCRL
Clearburn Double sided Junior	STDFDSJ
Clearburn Double sided Small	STDFDSS
Clearburn Double sided Medium	STDFDSM

Description of product:

Croft Clearburn wood and multifuel heating stove product range.

Steel bodied stove fitted with cast iron doors. Supplied in various sizes to give a range of heat output options.

Are in conformity with the provisions of the following EC Directive (S) when installed in accordance with the installation instructions in the product documentation:

98/106/EEC- 305/2011 Construction Products Directive

And the standards referenced below have been applied:

EN 13240: 2001 + Amendment A2: 2004 & inset BS EN13229:2001 + A1: 2003 + A2: 2004

Provisions to which the product conforms:

Product: Roomheater fired by solid fuel as covered under the scope of the standards listed. Intended use: Space heating in residential building.		
Characteristic	Performance	Report
Fire Safety	Satisfies	
Emission of combustible products and Thermal output/Efficiency	Croft Clearburn Junior- STDFCRJL/ STDFCRJ Co @ 13% 0² Wood 0.31% Ancit 0.34% 5Kw @ 83% Wood – 5Kw @ 66.2% Ancit	6348-01
	Croft Clearburn Junior Inset- STDFCRJIN Co @ 13% 0² Wood 0.35% Ancit 0.40% 5Kw @ 80.3% Wood -4.7Kw @ 73.2% Ancit	6700-1
	Junior 105SE- STDFJ105L/ STDFJ105H/ STDFJ105HWD co@ 13% 0² Wood 0.31% Ancit 0.34% 5.3Kw @ 75.7% Wood -5Kw @ 66.2% Ancit	6931-SE-2
	Croft Slimline 5- STSFCRSL5 Co @ 13% 0² Wood 0.28% Ancit 0.30% 5Kw @ 81.6% Wood – 4.9Kw @ 75.8% Ancit	6042-1
	Croft Clearburn Slimline 6- STDFCRSL 6 Co@ 13% 0² Wood 0.37%- 6Kw @ 79.6% Wood	6348-04
	Croft Clearburn Small- STDFCRSM/ STDFCRSML Co@ 13% 0² Wood 0.28%- 8.2Kw @ 76.2% Wood	6348-02
	Croft Clearburn Medium- STDFCRM/ STDFCRML Co@ 13% 0² Wood 0.44%- 11.4Kw @ 75.9% Wood	6348-03
	Croft Clearburn Large- STDFCRL Co@ 13% 0² Wood 0.22%- 13.9Kw @ 72.9% Wood	6700-2
	Clearburn Double sided Junior	
	Clearburn Double sided Small	
	Clearburn Double sided Medium	
Release of dangerous substances	None	
Surface temperature	Satisfies	
Mechanical resistance (to carry a chimney/flue)	Maximum weight to be supported 30Kg	

Test laboratory: 0692

Name: M.P Chew
Position: Technical Director (s)

Signature: 
Date: 24th September 2012

Product Fiche according to Commission Delegated Regulation (EU)2015/1187	
Energy Labelling of Local Space Heaters	
Supplier's Name	Dean Stoves
Model	Clearburn Junior Double sided
Energy Efficiency Class	A
Nominal Heat Output to Room (KW)	8.0
Nominal Heat Output to Water (KW)	n/a
Seasonal Space Efficiency (%)	64.3
Net Efficiency (%)	74.3

Product Fiche according to Commission Delegated Regulation (EU)2015/1187	
Energy Labelling of Local Space Heaters	
Supplier's Name	Dean Stoves
Model	Clearburn Small Double sided
Energy Efficiency Class	A
Nominal Heat Output to Room (KW)	10.0
Nominal Heat Output to Water (KW)	n/a
Seasonal Space Efficiency (%)	63.0
Net Efficiency (%)	73.0

Product Fiche according to Commission Delegated Regulation (EU)2015/1187	
Energy Labelling of Local Space Heaters	
Supplier's Name	Dean Stoves
Model	Clearburn Medium Double sided
Energy Efficiency Class	A
Nominal Heat Output to Room (KW)	11.8
Nominal Heat Output to Water (KW)	n/a
Seasonal Space Efficiency (%)	63.0
Net Efficiency (%)	73.0

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THE DEAN FORGE FABRICATION LTD STOVES GUARANTEE

Dean Forge Fabrication Ltd offers a five year guarantee which covers the main body of the stove for manufacturing defects.

In the 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 by a HETAS registered engineer or recognised competent person or operated as per these instructions or properly maintained or does not comply with current building regulations and any regional legislation in force at the time.

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

Dean Forge Fabrication 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 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:-

Fire grate, log retainer, baffle plate, fire bricks, glass panels and 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.

Dean Forge Fabrication Ltd
Dean Prior
Buckfastleigh
Devon
TQ11 0LS

PRODUCT REGISTRATION

Name .....

Address .....
.....
.....
.....**Phone Number:** .....

Suppliers Details:

Name .....

Address .....
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.....**Phone Number:** .....

Installers Details:

Name .....

Address .....
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.....**Phone Number:** .....
HETAS Registration Number…….

Date of Purchase: ..... Date of Installation:.....

Stove Serial No: ..... Model: ……..