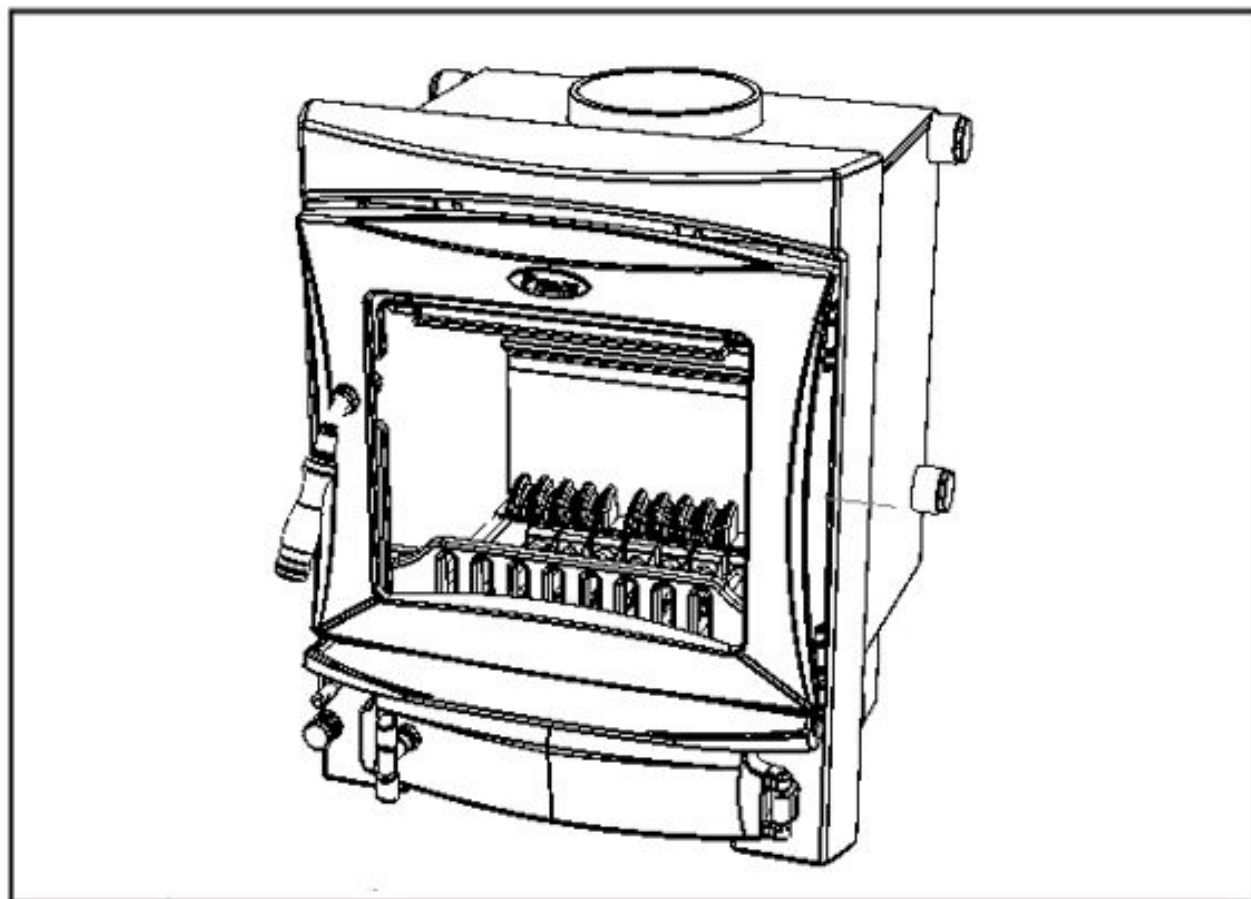


***P*IERCE**



GLAS 17 Boiler Insert

INSTALLATION & OPERATING INSTRUCTIONS

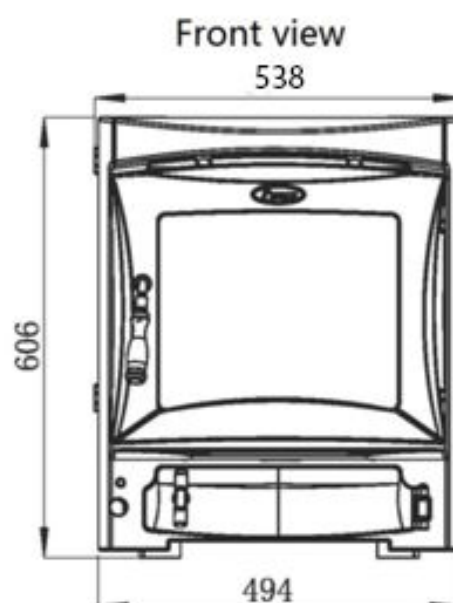
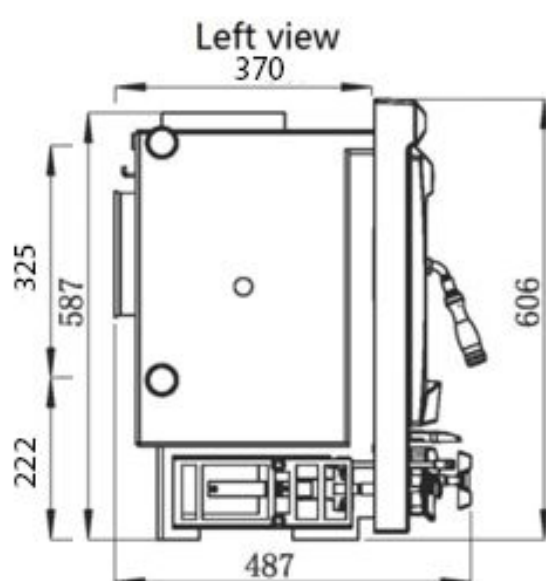
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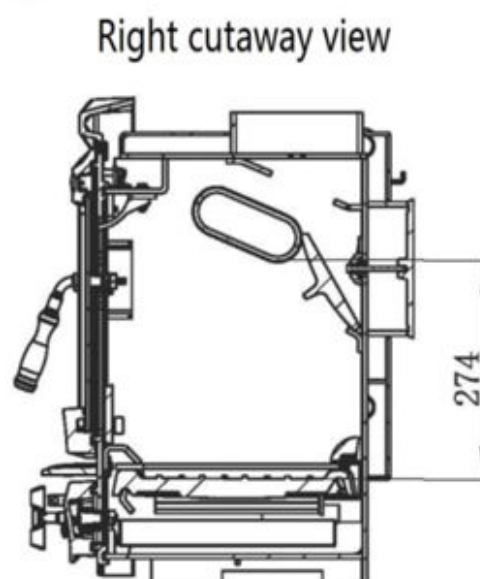
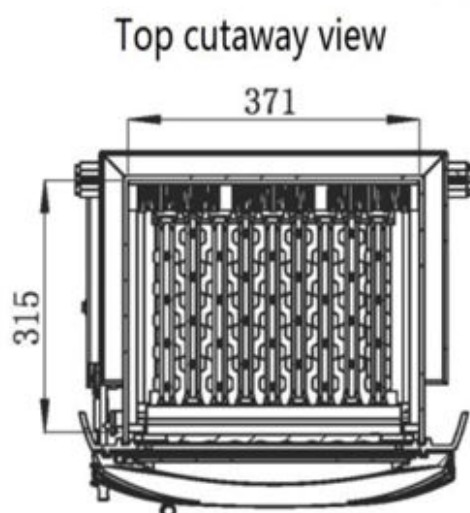
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TECHNICAL DATA:

SPECIFICATION



SECTION DIMENSIONS:



Installation Introduction with Technical Data

Installation of a fireplace must be according to local codes and regulations in each country. All local regulations, including those which refer to national and European standards, must be observed when installing the product.

Both an installation manual with technical data and a manual on general use and maintenance are enclosed with the product. The installation can only be used after it has been inspected by a qualified inspector. A name plate of heat-resistant material is affixed to the product. This contains information about identification and documentation for the product.

Technical data:

1. Material: Cast iron
2. Finish: High-temp. Resistance paint
3. Fuel: Multi-fuel
4. Flue outlet: Top rear
5. Inside: 150 mm/175 cm² cross section

TECHNICAL DATA		Wood	Manufactured	Approx Nominal
		log	Smokeless	Combined
parameter		mean	mean	
Refueling intervals	h	0.75	1.5	
Total efficiency:	%	73.4	70.3	72
Nominal heat output	kW	15.4	17.2	16.3
nominal heat output to space	kW	4.7	4.1	4.4
nominal heat output to water	kW	10.8	13.1	12
Mean CO emission (at13%O ₂)	%	0.31	0.18	
Mean flue gas temperature	°C	359	455	
flue gas mass flow	g/s	12.1	12.8	
Gross weight		121Kgs		
Flue outlet		150mm		
Boiler tappings		1" Bsp		
Max water pressure		2 Bar		
Log size		360mm		
Max water temperature		85°C		

Technical data according to EN 13229

Recommended chimney draught: 12 Pa

Operational mode: Intermittent

Intermittent combustion in this context means normal use of the fireplace, i.e. fuel is added as soon as the fuel has burnt down.

GENERAL INFORMATION:

Before installation of your Pierce Stove these instructions should be read carefully to fully understand the controls of your new stove. Keep these instructions for future reference.

Due care should be taken when unpacking and installing a Pierce Stove as not to cause damage to your new stove or its surroundings. Check all components are present and functioning before installation occurs.

INSTALLATION REQUIREMENTS

Installation must always be completed in accordance with current building regulations by a competent qualified person. Incorrectly installed stoves can cause serious accidents such as chimney fires or damage to insulation materials in partition walls and or roofs and ceilings. The installation of the stove to current building regulations is the sole responsibility of the home owner.

CHIMNEY REQUIRMENTS

Do not install a Pierce Stove into a chimney that serves any other heating appliance. The chimney height must be a minimum of 4.5 meters vertically from the floor on which the stove is installed to the top of the flue terminal in order for the stove to perform satisfactorily. The chimney should not have an excessive cross sectional area and should be in good condition without any cracks or blockages. The advice of an expert should be sought in relation to having the chimney lined, if deemed necessary by an expert a suitable lining for a solid fuel stove must be used. The internal diameter of any chimney or flue liner used must not be less than 125mm. Any flue liner and or adaptors used must be fitted strictly to the manufacturer's installation instructions. The flue should be checked and swept before connection to the stove. There may be a need to fit a draught stabilizer if an excessive draft exists, advice should be sought from an expert on the draft conditions. The chimney should be swept twice per year, any flue liner used should be cleaned in accordance with manufacturer's instructions.

AIR SUPPLY / VENTILATION

When installing a stove it is recommended that a permanent air vent be fitted if not already in position. The vent should have an effective area of 550mm² per kW of rated output above 5kW. In some instillation conditions under 5kW output stoves will have sufficient air for combustion from natural draughts from doors and windows. In newer properties designed to be almost airtight it may be necessary to have a vent fitted for a stove under 5kW rated output. It is recommended to seek expert advice on the air supply/ventilation for your installation to achieve the best performance from your Pierce Stove. If an air vent is fitted it must not be obstructed for any reason when the stove is in use. An extractor fan should not be fitted in the same room as your stove as fumes may emit into the room. It is recommended to fit a Carbon Monoxide alarm for your safety where you have a stove Installed; this is not mandatory in the republic of Ireland at present but is mandatory in the UK.

EXTERNAL SURFACE CLEANING

Cleaning on the matt finish stove is recommended with a brush attachment on a vacuum cleaner.

Cleaning on an Enamel finish stove is recommended with mild soapy water and a soft cloth.

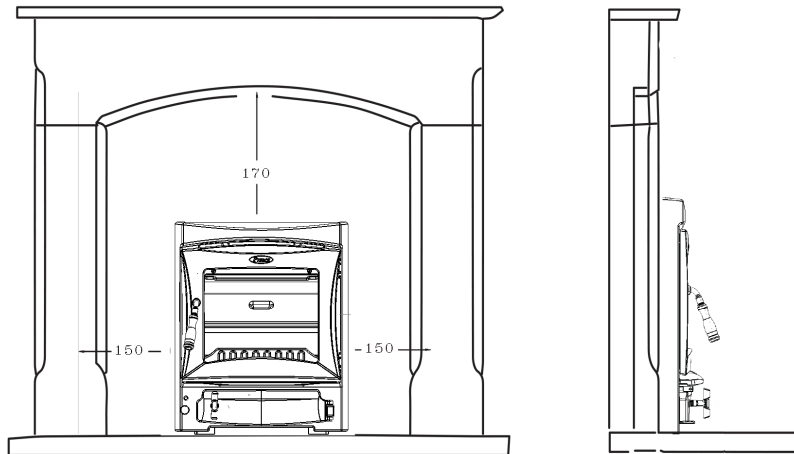
Strong abrasive utensils or strong detergents should never be used, always clean the stove after cooling.

DISTANCE TO COMBUSTIBLES

Pierce stoves operate at high temperatures and for safe operation of your Pierce Stove there are minimum distances to combustible materials, including wood and Plaster board, that must be adhered to at all times. These distances are as follows (see below diagram also)

150mm to either side of the stove

170mm to the mantle



The stove should also be installed on a solid non combustible base.

GLASS CLEANING

When there is sufficient heat generated from the fire the air wash system should keep the glass clean. Over time the glass may require cleaning, it is recommended to clean with a liquid detergent and soft cloth taking care not to scratch the glass.

ON COMPLETION OF INSTALLATION

Allow enough time for any fire cement and or mortar used in the installation to dry out according to the manufactures instructions.

A small fire may then be lit to check the installation of the stove.

Wait at least 24 hours before running the stove at full output.

Please note;

When this stove is properly installed it will not emit any fumes into the room. On occasion when using the riddling grate or refueling the stove a small amount of fumes might escape into the room. Constant fume emission is dangerous. If there is persistent fume emission into the room open the windows and doors and let the fire go out. Check the chimney/flue for any blockages and have them cleaned if necessary. Do not relight the stove until the cause of the fume emission has been ascertained and corrected, get expert advice if necessary.

CHIMNEY FIRE

It is unlikely you will ever experience a chimney fire if your stove is installed and operated correctly as per the operation instructions. In the unlikely event of a chimney fire close the primary air and secondary air controls immediately, evacuate the building and call the Fire Service. Do not re-enter the building until you have been advised by the Fire service that it is safe to do so. Ensure the stove is not used again until the chimney has been swept and the stove, chimney and flue have been inspected by a qualified competent person.

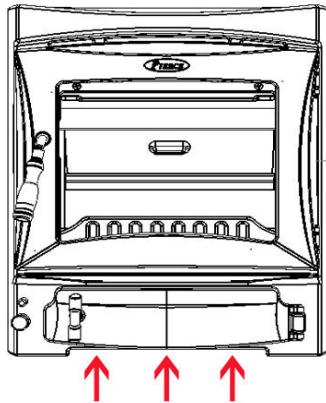
IMPORTANT INFORMATION

- 1. This appliance should not be used as an Incinerator.**
- 2. Non recommended fuels, including liquid fuels should not be used.**
- 3. This appliance, especially surfaces, will be hot to touch when in operation and due care should be taken. It is recommended to use an appropriate fire guard when children the aged or infirm are present.**
- 4. No unauthorized modifications should be made to this appliance.**
- 5. Only recommended replacement parts from the manufacturer should be used for this appliance.**

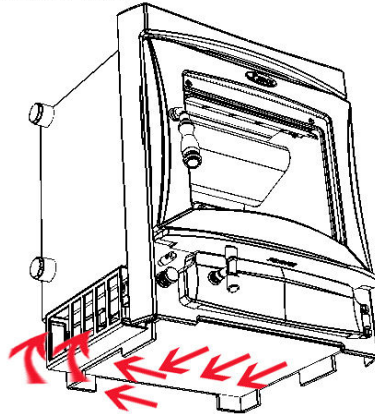
GENERAL INSTALLATION

It is important to consider the passage of the primary air from the bottom front of the insert stove to the rear left corner as per diagram below. There should be no blockage to the flow of primary air on installation, this is very important to attain the full function of the insert

Front View



Bottom View

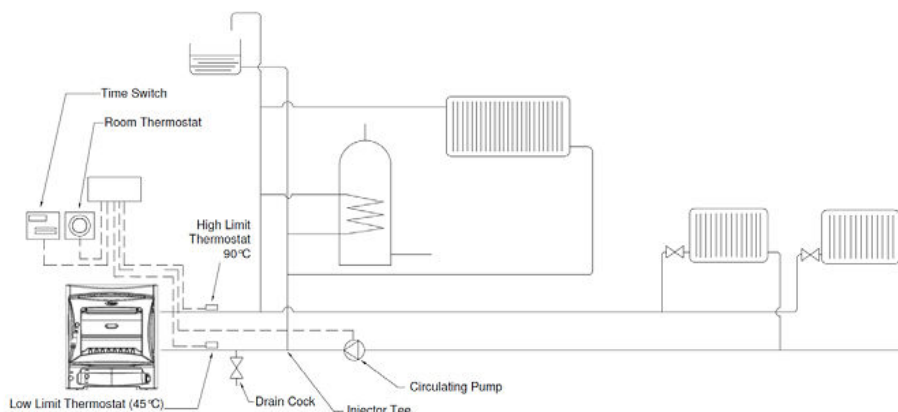


ELECTRICAL INSTALLATION

The installation of all electrical connections for example the circulation pump, pump thermostat and any motorized valves must be installed in compliance with local and European building regulations by a competent qualified person.

PLUMBING INSTALLATION

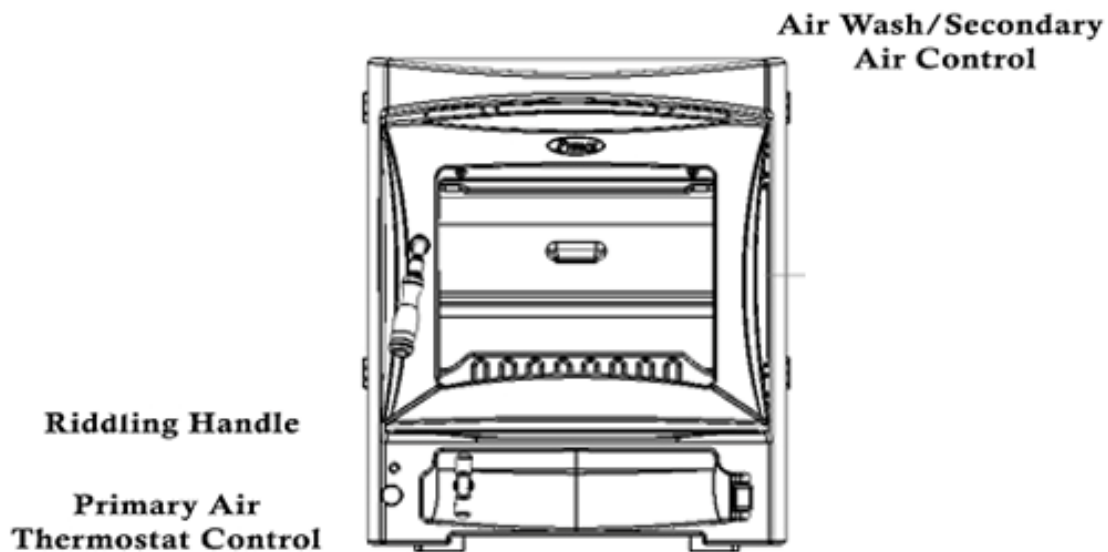
The plumbing installation must be completed in compliance with all local and European building regulations by a qualified competent person. When installed the system should not rely completely on a gravity fed circuit to the domestic hot water tank but should also incorporate a circulation pump for a pumped radiator circuit. It is recommended to incorporate a heat loss radiator into the gravity fed circuit so in the event of a power cut or pump failure the hot water generated can dissipate through this radiator along with the domestic hot water tank. this appliance must be connect to an open vented system without any manual or automatic valves which could close the flow route from the stove to the systems open vent. Any motorized valves fitted elsewhere to the system must revert to the open position in the event of power failure to allow heat to be safely dissipated through the gravity circulation system. See below diagram of a basic heating system, this diagram is for guidance purposes only.



FAULT FINDING INSTRUCTIONS

Problem	Probable causes	-Action
Fire difficult to start Fire goes out	Wood green, too damp or poor quality. Logs are too big. Air starvation. Insufficient draught.	<ul style="list-style-type: none"> – Use the recommended fuel. – To light the fire, use small, very dry kindling To maintain the fire, use split logs. – Open primary air and secondary air – Check that the flue is not obstructed, sweep it if necessary Seek specialist advice.
<i>Fire burns too quickly.</i>	Too much draught. Excessive draw. Poor quality wood.	<ul style="list-style-type: none"> – Ensure that the primary air is closed. Partially close secondary air. – Install a draught stabiliser. – Do not continuously burn small wood or carpentry offcuts.
<i>Smokes while burning.</i>	Insufficient draught Down draught. Inadequate ventilation	<ul style="list-style-type: none"> – Check that the flue is not obstructed, sweep if necessary. – Install an anti-down draught cowl. – Insure there is adequate ventilation from outside.
<i>Low heat output.</i>	Incorrect Fuels.	<ul style="list-style-type: none"> – Use the recommended fuel.

OPERATING INSTRUCTIONS:



PRIMARY AIR THERMOSTAT CONTROL

The primary air thermostat control is positioned to the bottom left hand side of the front of the stove (see above diagram). When the control is turned fully counter clockwise it is in the fully closed position and when it is turned fully clockwise it is in the fully open position. When the stove is in use this control can get hot and it is advised to use the glove provided with your stove when adjusting. Primary air is normally used more when burning mineral fuels such as coal.

AIRWASH/SECONDARY AIR CONTROL

The airwash/secondary air control is positioned underneath the door to the top front of the stove (see diagram above). This controls the intake of airwash/secondary air into your stove, slide to the right for the maximum amount of air and to the left for the minimum amount of air. Over time you will find the best setting for your installation and type of fuel used. When the stove is in use this control can get hot and it is advised to use the glove provided with your stove when adjusting. Airwash air is normally used more when burning wood logs.

RE-FUELLING/RIDDLING CONTROL

The riddling control is positioned to the front left side of the stove just above the primary air control (see diagram above). Before refueling the stove riddle the fire by pulling the control in and out with the tool provided to release all the dead ash to the ashpan compartment below. When adding more fuel do not over fill the fire box as this can cause damage by over firing the stove, the fuel should not be filled higher than the front fire fence. After fueling close the door and adjust the primary air thermostat control to the required setting.

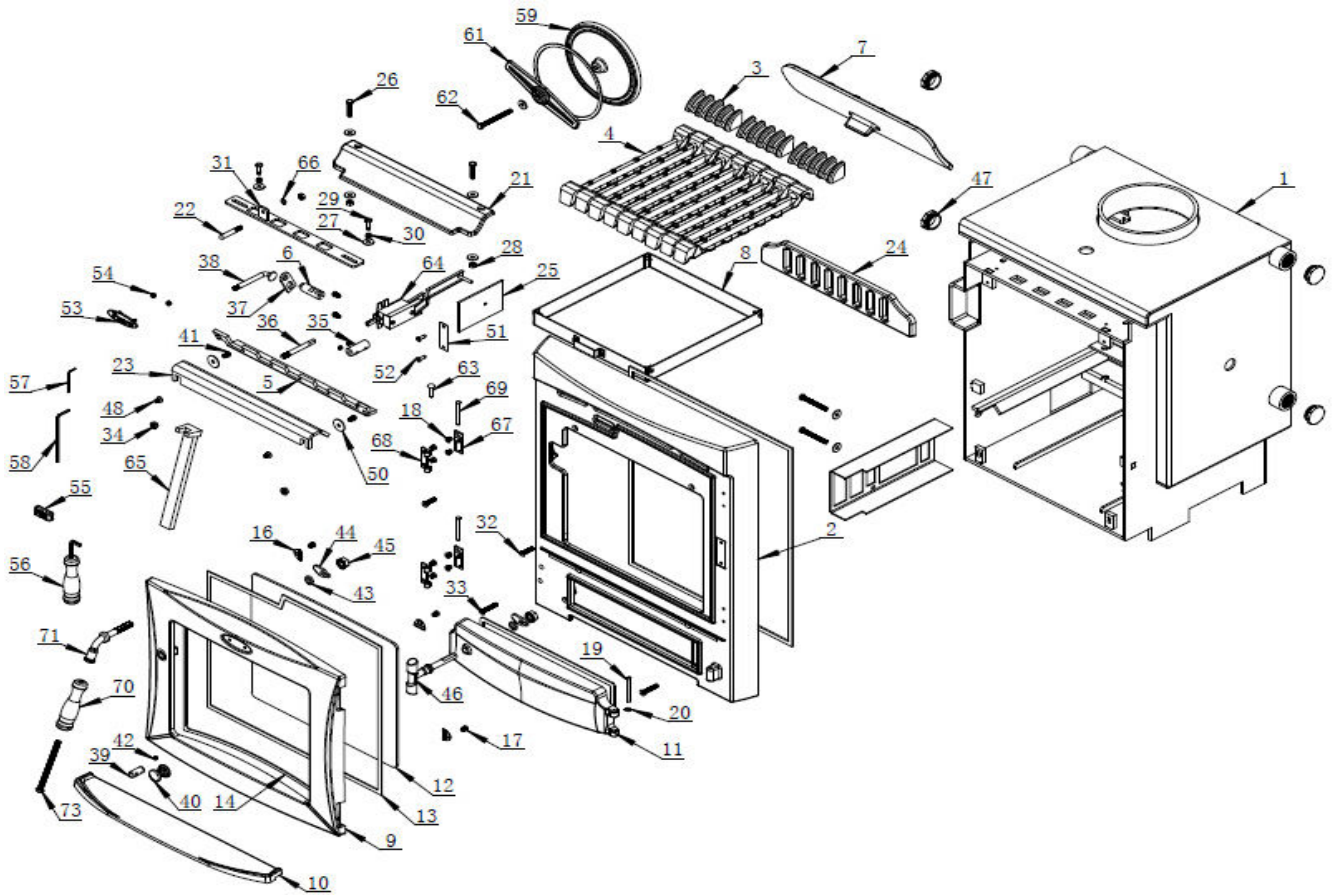
Never let the ashpan or ashpan compartment become over full with ash as this will cause damage to the grate and can also block the primary air inlet at the rear left corner of the ashpan compartment. Be sure to empty the ashpan and clean thoroughly the ashpan compartment before lighting the stove. Ensure the ash has cooled completely before removing the ashpan, cleaning thoroughly the ashpan compartment and disposing of the ash. It is recommended to use an ash vacuum cleaner for this cleaning operation.

LIGHTING THE STOVE

First make sure the inside of the stove has been adequately cleaned and that all dead ash has been removed also ensure the ashpan has been emptied and the ashpan compartment is clear of any dead ash. Open the primary air to its maximum setting. Place some firelighters or papers on the centre of the grate and light, add some kindling as required, as the fire establishes itself add your selected fuel and close the door. Adjust the primary air setting as required.

FUELS

The stove has been tested using smokeless fuel (Ancit) and wood logs. Other fuels are available and may give similar results. Wood logs up to 36cm long can be used. All fuels should be kept as dry as possible before Use.



No.	Code No.	Name	Size	Quantity
1	PS106	Boiler	382×492×587	1
2	Front	PS10603		1
3	Back Protection	PS10557		3
4	Plate	PS10414		9
5	CA1102-E	Blanking Plate	362×32×6	1
6	CA0615-PS106	Axis of Rotation	Φ16×46	1
7	Top baffle	PS10449		1
8	CA1321	Ash Pan	271×287×32	1
9	Door	PS10107		1
10	Ash baffel	PS10162		1
11	Ash pan door	PS10108		1
12	CA10 (PS101)	Door Glass	343×287/292×4	1
13	CA0802	Fiberglass Rope	Φ8	1
14	CA0801	Fiberglass Rope	Φ6	1
16	CA1112	Door Glass Clip	/	4
17	CA0293-1	Hexagon Head Bolts	M6×8	4
18	CA0293	Flat Counter Sunk Inhexagon Bolts	M6×8	8
19	CA0605-2	Hinge Pin	Φ6×55	1
20	CA0319	Spring Washer	Φ6.2×10×2	1
21	Air Wash base	I1109		1
22	CA0104-PS201	Stainless Steel Bar	Φ8×35	1
23	TBPS10436	Front Protection Plate	352×22×6	1
24	Fire fence	PS10420		1
25	CABDAMP01	Thermostat Cover	105×68×3	1
26	CA0215	Hexagon Head Bolts	M6×30	2
27	CA0301	Spring Washer	Φ6×18	7
28	CA0402	Nut	M6	3
29	CAL0112	Hexagon Head Bolts	M5×Φ6.2×20	2
30	CA0707	Spring	Φ0.8×Φ8×11	2
31	CA1113-PS106	Air Wash Cover	305×27×29	1
32	CA0275	Flat Counter Sunk Inhexagon Bolts	M6×25	2
33	CA0277	Flat Counter Sunk Inhexagon Bolts	M6×35	2
34	CA0407	Flange Nut	M6	2
35	CA0138-T	Thermostat Transmission Tube	40×16	1
36	CA1304-06	Thermostat Bar	70×8	1

No.	Code No.	Name	Size	Quantity
37	CA1102-F	Blanking Plate	42×20×4	1
38	CA1401-PS106	Riddling Rod	64×19	1
39	CA0114-083	Handle	Φ12×30	1
40	CA010403	Pull Rod Knob	8Φ25×30	1
41	CA0265	Cup Head Bolts(+)	M6×10	4
42	CA0281	Fastening Screw	M6×6	3
43	CA0502	Spring Washer	Φ10	2
44	CA1505	Door Rod Knob	16×35×4	2
45	CA0412	Clinch Nut	M10	2
46	CA0109	Handle	/	1
47	CA1701-SL	Plug	/	4
48	CA02932	Flat Counter Sunk Inhexagon Bolts	M6×10	2
50	CA0315	Washer	Φ6×25	2
51	CAL0101-ZI	Plate	60×19	1
52	BXGMD-2	Stainless Steel Rivets	Φ5×12	2
53	CAL0101-KE	Plate	68×22×4	1
54	/	Flange Nut	M4	2
55	GZI-001	Desiccant	50g	1
56	CA0137	Riddling Tool	Φ6×23×140	1
57	NLFBS-007	Allen wrench	1.5×17×47	1
58	CATSNLFBS-010	Allen wrench	3mm	1
59	Flue cover	C150		1
61	Blanking Plate	C150Y		1
62	CA0221-3	Hexagon Head Bolts	M6×70	1
63	CA0613	Door Sharf Pin	Φ4×26	1
64	CABWKQ02	QWX Thermostat	300	1
65	Operating Tool	CA0105		1
66	CA0501	Spring Washer	Φ6	1
67	CA1603	Door Hinge	46×18.5	2
68	CA1604	Door Hinge	46×17	2
69	CA0614	Door Hinge Shaft	Φ5×50	2
70	CA0102-ZH	Door Handle	/	1
71	CA0101-ZH	Door Handle elbow	60Φ10×35	1
72	CA0501-1	Spring Washer	Φ8	1
73	CA0266	Cup Head Bolts(+)	M8×105	1

