CastTec

POLARIS INSET ECO

Multi-fuel stove

Ref No: I17. Version 01 (06.03.2023)

Installation and Operating Instructions

The Polaris Inset Eco stove must be installed by a suitably qualified engineer.

Instructions must be given to the user when installation is completed, and the installer must instruct user of the correct use of the appliance and control operation.







Polaris Integra

The Polaris Inset Eco and the optional Polaris Integra cast iron fireplace are manufactured by Cast Tec Ltd. East Side, Tyne Dock, South Shields NE33 5SP

Website: www.casttec.co.uk - Tel. 0191 4974280



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THE CLEAN AIR ACT 1993 AND SMOKE CONTROL AREAS

The CastTec Polaris Inset Eco multi-fuel stove has been recommended for exemption from UK smoke control areas when burning wood. Note that authorised fuels can also be used in a Smoke Control Area, details of authorised fuels can be found at https://smokecontrol.defra.gov.uk/fuels.php.

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 a 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 Scotlish Ministers under section 50 of the Regulatory Reform (Scotland) Act 2014.

In Wales and Northern Ireland these are authorised by regulations made by Welsh Ministers and by the Department of the Environment respectively.

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 CastTec Polaris Inset Eco has been recommended as suitable for use in smoke control areas when burning wood logs and authorised fuels. The CastTec Polaris Inset Eco is fitted with a permanent stop to prevent closure of the secondary air control beyond 50% open.

INSTALLATION ESSENTIALS

The installation of a fireplace or stove must be in accordance with local codes and regulations in each country and other national and European standards that apply.

Your Polaris Inset Eco stove must be installed by a Competent Person registered with a Government Approved Competent Person's Scheme.

In the UK, HETAS is a qualified body that can assist with general advice, regulation, installation, type of fuel usage and can provide a list of registered Competent Persons: Website is www.hetas.co.uk.

PRE-INSTALLATION CHECKS

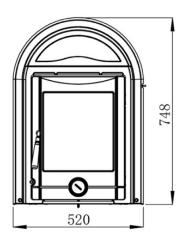
Installation of a fireplace must be according to local codes and regulations in each country. All local regulations, including those which refer to national and European standards, must be observed when installing the product.

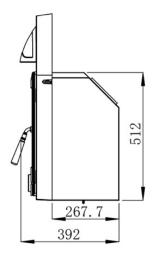
Both an installation manual with technical data and a manual on general use and maintenance are enclosed with the product. The installation can only be used after it has been inspected by a qualified inspector. A name plate of heat-resistant material is affixed to the product. This contains information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

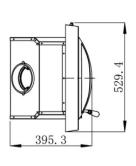
TECHNICAL INFORMATION

Polaris Inset Eco Diagram

Figure 1

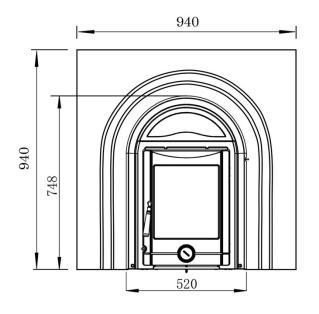


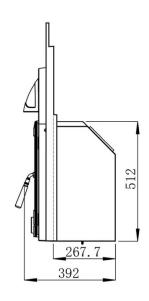




Polaris Integra Eco Diagram

The CastTec Polaris Integra is a cast-iron insert that integrates with the Polaris Inset Eco to create an efficient traditional fireplace. (See Figs. 2 and 3)





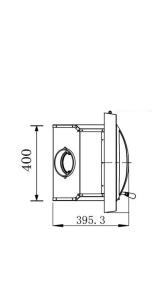
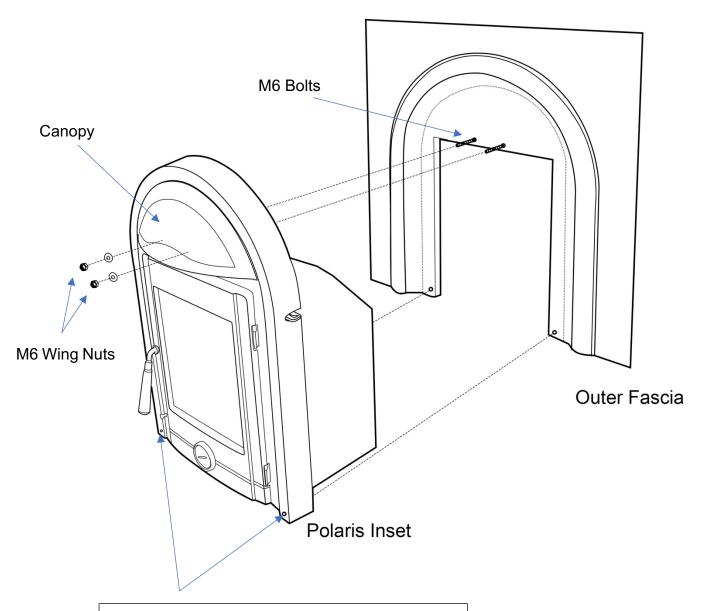


Figure 2

Polaris Integra Assembly

Figure 3

2 x M6 wing nuts and washers accessed behind the canopy.



2 x M6 countersunk bolts screw into Outer Fascia.

TECHNICAL DATA ACCORDING TO NEN EN 13229:2001 and NEN EN13229 - A2: 2004		
	WOOD	ANTHRACITE
STOVE	Polaris Inset Eco	
FUEL	Multi-Fuel	
NOMINAL HEAT OUTPUT	4.6 kW	4.8 kW
ENERGY EFFICIENCY	79.2 %	76.8 %
MINIMUM FLUE SIZE	125 MM	
DIST. COMBUSTIBLES	Side: 350 MM Above: 600 MM	
LOG LENGTH	>22 cm	2" - 3"
FLUE OUTLET	Тор	
FLUE PIPE DIMENSION	125 MM	
RECOMMENDED CHIMNEY DRAUGHT	12 Pa	
OPERATIONAL MODE	Intermittent*	
MATERIAL	Cast-iron	
FINISH	High Temp. Resistance Paint	
WEIGHT	75 kg	

*Intermittent combustion in this context means normal use of the STOVE, i.e., fuel is added as soon as the fuel has burnt down. This is not intending for overnight burning.

INSTALLATION

Installing this stove

The stove and chimney installations MUST comply with all current National and Local Building Regulations; your approved dealer or your local building control officer can advise regarding this. Ultimately, it is you and your installer who is responsible that the installation complies.

Pre-installation

After removing the stove from the packaging, open the fire door and remove the loose packing. Prior to installation all the internal components of the stove are removed to gain access to fixings and to make it lighter for installation.

- A. Remove the refractory fire bricks, these bricks are loose and just need to be lifted clear of the grate support plate before they can be removed.
- B. To remove the loose baffle, lift the front edge until it hits the top and then slide it forward. Then drop the rear edge and the baffle will slide down. To remove the fixed baffle, loosen the two screws and slide it forwards, it will then drop down.
- C. Next, remove the riddle knob from the riddle bar positioned at the front left of the stove. Remove the inner riddling grate and bar before pushing up the outer grate from underneath. This will allow access to four M6 fixings which will attach the stove to the outer casing. Remove the 4 fixings, allowing the insert stove to be removed from the external casing.

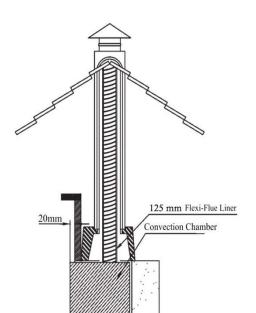


Figure 4

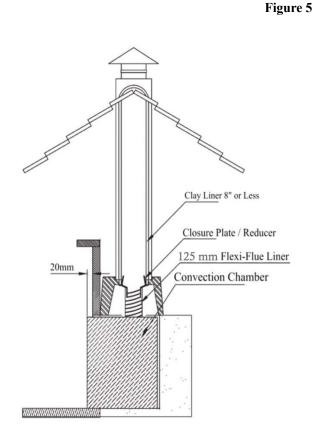
Chimney

THIS PRODUCT IS SUITABLE FOR CHIMNEY INSTALLATION ONLY.

The stove is a radiant room heater with convection chamber and must be connected to a chimney of the proper size and type. The chimney must have a cross sectional area of at least 124cm2 or a diameter of at least 125mm. Never connect to a smaller size chimney. Do not connect to a chimney serving another appliance. Minimum chimney height 4.5 meters from floor on which stove is installed.

It is recommended that a flue liner of diameter 125mm be used to line the chimney, the liner should be approved for use with solid fuel. (See Fig. 4.)

It is permitted to connect using a closure plate and a connection piece from the stove to the closure plate (See Fig. 5.), provided that the chimney is of sound construction with no leaks or cracks, a clay flue liner has been used that can withstand up to 1000oC, the clay liner has a diameter no greater than 200mm.



ALL FLUE INSTALLATIONS ARE THE RESPONSIBILITY OF THE CUSTOMER.

The stove must be connected to a chimney with a minimum continuous draught of 12 Pascal's (.05" WG). Poor draught conditions will result in poor performance.

FITTING INSTRUCTIONS (POLARIS INSET ONLY)

- **Step 1.** Prepare the fireplace area with fireback or milner brick removal. Ensure the opening is suitable for fitting of the insert stove opening required, i.e., remove fire surround trim if fitted. (See Fig. 6.)
- **Step 2.** Ensure the floor area is level with the hearth, this area needs to be level as the insert fire is screw fixed to the floor.

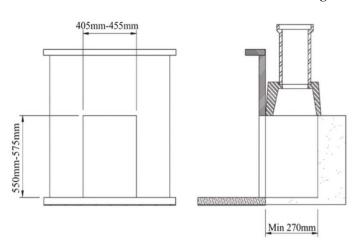


Figure 6

- **Step 3.** Lay the external casing into the opening and position so that the front edge protrudes 20mm past the front edge of the opening.
- **Step 4.** Mark the drill location and drill the holes using a 4.5mm drill bit. Fix the casing to the floor using the self-tapping screws provided.
- **Step 5.** Lift the stove into the external casing. Remove all internal parts as per preassembly instructions prior to lifting it. The stove can be lifted into the casing approximately 125mm first and then it can be pushed into the final position while taking care to lift the front edge to preserve the hearth.
- **Step 6.** Drop the flexi flue liner with adaptor end attached into the fire opening ready to connect to the appliance.
- **Step 7.** Lay the sealing gasket on to the flue spigot, and then fit the flue spigot to the end of the flexi flue liner using the 2 grub screws provided.
- **Step 8.** Then using the M6 screws secure the stove to the convection chamber. Push the insert stove against the fireplace before fully tightening these bolts.
- **Step 9.** Reach up through the stove and pull the stove collar down and secure the flue collar to the stove with the two flue collar's bolts. (See fig. 7.)
- **Step 10.** Complete the installation of the flexi liner at the top of the chimney in accordance with the manufacturer's instructions.

FITTING INSTRUCTIONS (POLARIS INTEGRA)

- **Step 1.** Prepare the Fireplace area with the fireback or milner back removed. Ensure the opening is a suitable size to accommodate the Polaris Inset. (See Fig. 6.)
- **Step 2.** Ensure the rear hearth floor area is level with the front hearth, this area will need to be level.
- **Step 3.** Build the 'Outer Facia' cast iron back panel against the chimney wall, bridged off the wall as required with non- combustible packing to match the chosen surround rebate, the edges of the cast iron outer fascia can be drilled and countersunk to allow secure wall fixing, Ensure the surround hides the fixing holes! Cement flaunch the outer edges of the cast iron back panel to ensure an airtight fit against the chimney wall. Seal the inner edges of the "Outer Fascia" in preparation of the stove insertion.
- **Step 4.** Drop the flexi flue liner with adapter end attached into the fire opening ready to connect to the appliance.
- **Step 5.** Strip out the inside components of the Polaris Inset to gain access to remove the spigot, then attach this to the flexi liner/adapter end.
- **Step 6.** Push the 'Polaris' inset fascia into the back panel and secure with 2 x wing nuts behind the canopy and 2 x counter sunk bolts at the base. (See fig. 3.)
- **Step 7.** Gain access from inside the Polaris stove then reach up through the stove and pull the stove collar down and secure the flue collar to the stove with the 2-x flue collar fixing bolts. (See fig. 7.) (Flue Liner not shown for illustration purposes)
- **Step 8.** Replace The inside components and complete the installation of the flexi liner at the top of the chimney in accordance with the manufacturer's instructions.

Figure 7









FIT THE INDIVIDUAL COMPONENTS IN THE FOLLOWING ORDER

1. Grate Support

Tilt the grate support up on one side and pass it carefully through the door opening.

2. Riddle Grate

The grate simply lays into the grate support, but care needs to be taken that the riddling bar will rest in the middle of the riddle connecting plate.

With the riddle grate in position, and the riddle bar located through the hole on the front left of the stove, then connect the cylindrical handle to the end of the riddle bar and tighten with the Allen key provided.

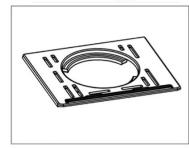
3. Back Bricks

Lay the back bricks in as shown.

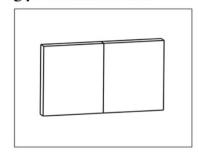
4. Baffle

Lay the baffle on the back brick, then hold it meanwhile lay the left and right side brick.

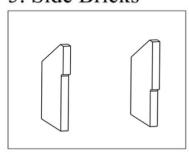
1. Grate Support



3. Back Bricks

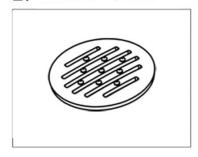


5. Side Bricks

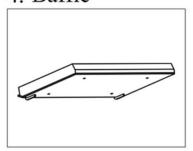


2. Riddle Grate

Figure 8



4. Baffle



6. Fuel Retainer



5. Side Bricks

Lay the side and back bricks in as shown.

6. Fuel Retainer

Lay the fuel retainer into the slots provided ensuring that they slope from front to back so that no embers can fall out through the fuel retainer.

DOWN DRAUGHTS

However well designed constructed and positioned, the satisfactory performance of the flue can be adversely affected by down draught caused by nearby hills, adjacent tall buildings or trees. These can deflect wind to blow directly down the flue or create a zone of low pressure over the terminal. A suitable anti-down draught terminal or cowl will usually effectively combat direct down blow but no cowl is likely to prevent down draught due to a low pressure zone. (See Fig.9.)

VENTILATION AND COMBUSTION AIR REQUIREMENTS

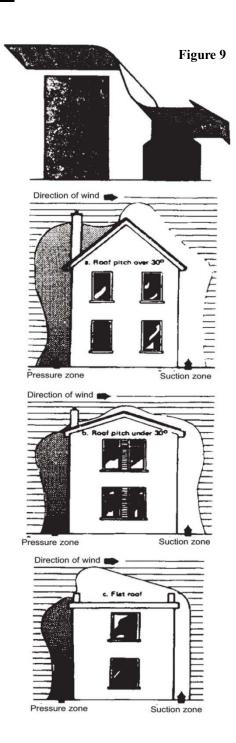
This appliance is rated less than 5kW, therefore there is no mandatory requirements for additional air unless a flue draught stabiliser is fitted then the air requirement is 15 cm². However, we suggest that it is advantageous to provide an air supply into the room.

When calculating combustion air requirements for this appliance use the following equation: 550 mm². per each kW of rated output above 5 kW should be provided, where a flue draught stabiliser is used the total free area shall be increased by 300 mm² for each kW of rated output. If there is another appliance using air fitted in the same or adjacent room, it will be necessary to provide an additional air supply.

All materials used in the manufacture of air vents should be such that the vent is dimensionally stable,

corrosion resistant, and no provision for closure. The effective free area of any vent should be ascertained before installation. The effect of any grills should be allowed for when determining the effective free area of any vent.

Air vents direct to the outside of the building should be located so that any air current produced will not pass through normally occupied areas of the room.



An air vent outside the building should not be located less than the dimensions specified within the Building Regulations and B.S. 8303: Part 1 from any part of any flue terminal. These air vents must also be satisfactorily fire proofed as per Building Regulations and B.S. 8303: Part 1.

Air vents in internal walls should not communicate with bedrooms, bedsits, toilets, bathrooms or rooms containing a shower.

Air vents traversing cavity walls should include a continuous duct across the cavity. The duct should be installed in such a manner as not to impair the weather resistance of the cavity.

Joints between air vents and outside walls should be sealed to prevent the ingress of moisture. Existing air vents should be of the correct size and unobstructed for the appliance in use. If there is an extraction fan fitted in adjacent rooms where this appliance is fitted, additional air vents may be required to alleviate the possibility of spillage of products of combustion from the appliance/flue while the fan is in operation. Refer to B.S. 8303 Part 1.

Where such an installation exists, a test for spillage should be made with the fan or fans and other appliances using air in operation at full rate, (i.e. extraction fans, tumble dryers) with all external doors and windows closed.

If spillage occurs following the above operation, an additional air vent of sufficient size to prevent this occurrence should be installed.

PERMANENT AIR VENT EXTRACTOR

The stove requires an adequate air supply in order for it to operate safely and efficiently. The installer may have fitted a permanent air supply vent into the room in which the stove is installed to provide combustion and/or ventilation air. This air vent should not under any circumstances be shut off or sealed.

EXTRACTOR FAN

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

COMMISSIONING & HANDOVER

On completion of the installation allow a suitable period of time for any fire cement and mortar to dry out, when a small fire may be lit and checked to ensure the smoke and fumes are taken from the stove up the chimney and emitted safely to the atmosphere. Do not run at full output for at least 24 hours.

On completion of the installation and commissioning ensure that the operating instructions 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 what to do should smoke or fumes be emitted from the stove. The customer should be warned to use a fire guard to BS 6539 in the presence of children, aged and/or infirm persons.

LOCATION

There are several conditions to be considered in selecting a location for your stove.

- a. This product is designed to be installed into a fireplace.
- b. Allowances for proper clearances to combustibles.

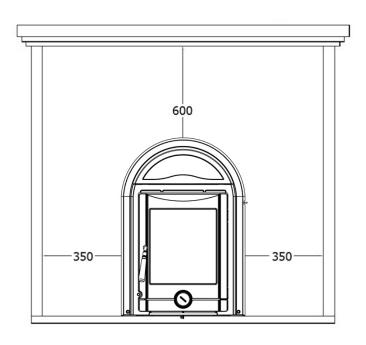
CLEARANCE TO COMBUSTIBLES

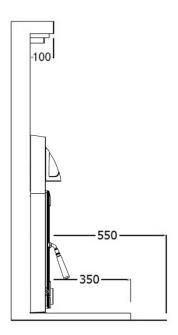
This appliance must be installed in a recess, the recess should not contain any combustible materials. Wooden battens and plaster board should not be used within the clearance to combustibles. The minimum clearance to combustibles required is 600mm to the top, 350mm to the sides, 550mm directly to the front and 350mm to any combustible flooring.

If the mantelpiece protrudes further than 100mm from the fireplace, then it will be necessary to have further clearance to the top of the stove. The distance the mantle protrudes past the 100mm should be added to the clearance.

For example, if the mantle protrudes 200mm, the clearance to the mantle should be 650mm. (See Fig. 10.)

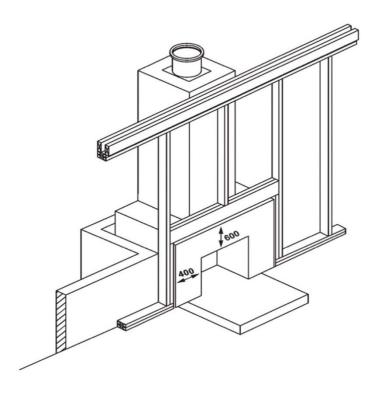
Figure 10





If there is a studded wall surrounding the fireplace as in Fig. 10, ensure the clearances in this Fig. 11 are adhered to.

Figure 11



FLOOR PROTECTION

It is recommended that this appliance is installed on a solid, level, concrete base, a noncombustible hearth conforming to current Building Regulations must extend to the front of the appliance.

CHOICE OF FUEL

- 1. Recommended fuel: Wood.
 - a. Use hard wood logs.

Although you can fire this product with almost all kinds of wood, you should not fire with wet wood, or unseasoned wood. Wood ought to be stored under a roof for at least 1 year, and preferably 2 years, with free access to wind. Wood should be chopped as soon as possible after felling if it is to dry quickly. The wood can be used once the moisture content is less than 20%. During the EN test, all stoves are tested with wood with a moisture content of (16 ± 4) %.

- Hardwood has a higher calorific value as the same volume (oak, ash, maple, birch, elm, beech, etc.).
- Pieces of wood with a diameter greater than 10 cm should always be chopped. The pieces of wood should be short enough to be able to lie flat over the layer of embers, with air at both ends. The maximum length of fuel in the stove is no more than 30cm.
- 2. Recommended fuel: Solid Fuel.
 - a. Smokeless fuels, including coalite nuts, phurnacite, ancit and extracite. (See www.hetas.co.uk for latest information)



Not Recommended as Fuel:

- "Green wood". Green or damp wood reduces stove efficiency and soils the glass, the internal walls and the flue (soot, tar, etc.).
- "Used timbers". Burning treated wood (railway sleepers, telegraph poles, offcuts of plywood or chip board, pallets, etc.) quickly clogs the flue ways (soot, tar, etc.), pollutes the environment (pollution and smell, etc.) and cause the fire to burn too quickly and overheat.
- "Green wood" and "recovered wood" can eventually cause a chimney fire.
- Prohibited fuel: plastic bags and any form of bituminous coal or petroleum-based coke. This may harm the product and pollute the atmosphere.

USE

 Painted products: the fireplace may emit an irritating gas when used for the first time, and it may smell a little. The gas is not toxic, but the room should be thoroughly ventilated. Let the fire burn with a high draught until all traces of the gas have disappeared and no smoke or smells can be detected.

• **Polished Cast Iron products:** Condensation may form on the surface of the fireplace the first few times it is used. This must be wiped off to prevent permanent stains forming when the surface heats up.

Air Control: Figure 12

The amount of heat emitted by the stove is regulated using two air controls. The primary air supply, where air passes up through the riddling grate, is controlled using the lower air control and the secondary air (air wash system), which is supplied to the combustion over the glass, is controlled using the upper air control.

USE WITH WOOD

Lighting - Figure 12

- 1. Slide the top air control to open. Open the lower control.
- **2.** Lay firelighters or rolled up newspapers on the grate with a reasonable quantity, if necessary, of dry kindling wood. Place 2 or 3 small logs on top.
- **3.** Light the newspaper or firelighters using a long taper and close the door.
- **4.** When the fire is burning fiercely, add further logs of a diameter up to 10 cm.
- **5.** When the stove body is very hot, close the lower control.
- **6.** The burning rate can now be lowered by moving the top air control to smaller air inlet.

Re-fueling - Figure 12

- **1.** Slide the top air control to open. Open the lower control.
- 2. Open the glass door and add logs. (To load fuel, the door should be opened slowly, avoiding a sudden rush of intake air, so that smoke does not escape into the room.)
- **3.** Leave the lower control open for a few minutes to allow the initial volatiles in the wood to burn.
- **4.** Close the lower control.

Very Important: Wood is a material that contains a great deal of gas (approximately 75 %). The gases are released when the wood is lit and heated up. For this reason, it is important that the gases are ignited quickly after stoking. If the wood just lies smoldering, especially after re-stoking, a lot of smoke is created, which, in the worst case, may cause an explosive ignition of the gasses, resulting in damage to the stove.

In order to ignite the gases that are released from the wood, and to keep clear, lasting flames during the combustion process, it is important to always let in the required quantity of oxygen (air supply). The setting of the air supply, the method of ignition and the lighting intervals depend on the draught in the chimney, the wind and weather, the amount of heat required the fuel, etc. This means that it may take some time before you get to know the correct functioning of the stove under any given circumstances.

2. USE WITH SOLID FUEL

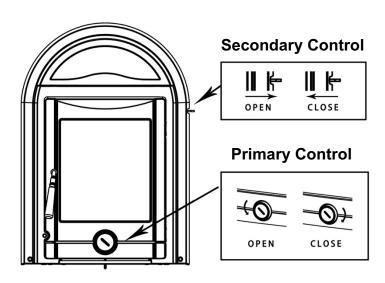
Lighting - Figure 12

- **1.** Slide the top air control to open. Open the lower control.
- **2.** Lay firelighters or rolled up newspapers on the grate with a reasonable quantity, if necessary, of dry kindling wood. Place a small quantity of solid fuel on top.
- 3. Light the newspaper or firelighters using a long taper and close the door.
- **4.** When the fire is burning fiercely, add further fuel.
- **5.** When the stove body is hot, close the top air control.
- **6.** The burning rate can now be adjusted by the lower control.

Re-fueling - Figure 12

- 1. Open the lower control.
- 2. Open the glass door and add fuel. (To load fuel, the door should be opened slowly, avoiding a sudden rush of intake air, so that smoke does not escape into the room.).
- **3.** Leave the lower control open for a few minutes to allow the initial volatiles in the fuel to burn.
- **4.** Adjust the lower control to the desired position.

Figure 12



The Secondary control has a factory set 50% air stop. This fulfils DEFRA smoke control compliance.

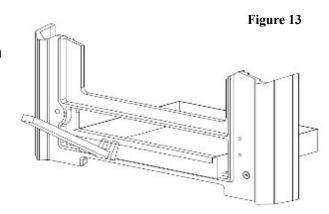
Very Important: The stove door should never be opened when the stove is being fired vigorously.

- We would strongly recommend that you do not leave your stove alit at night. It harms the environment, and constitutes very poor use of the wood, as the gases in the wood do not ignite at the low temperature but settle as soot (unburned gases) in the chimney and stove. Extreme conditions, such as poor draught in the chimney, large quantities of wood or wet wood, may, in the worst-case scenario, cause an explosive ignition.
- When firing in the summer period, when there is minimal need for heat, the combustion will be poor. The stove provides too much heat, so the combustion should be reduced. But always remember to make sure that there are lasting flames until the wood becomes charcoal. If you want a weaker fire, stoke up using less wood.
- If you fire the stove using wet wood, a lot of the fuel's thermal energy will be spent forcing the water out of the wood, without releasing any heat to the stove. This incomplete combustion results in a layer of soot being left in the stove, pipe and chimney.

ASH REMOVAL

Use of Ashpan

It is essential to keep the grate free from a heavy build up of ashes. This product is equipped with a grate riddling device which is used to "shake" ashes off the grate into the ash pan. Whenever the stove is burning without life when the lower control is open, use the riddling lever to clear the grate of surplus ashes.



If burning solid fuel, always empty the ash pan at least once a day or whenever it is full of ashes. Never allow the ashpan to overfill allowing ash to be in contact with the underside of the grate. If this condition is allowed, the grate will wear out pre-maturely.

DETACHABLE HANDLE

The handle on the CastTec Polaris stove can be used in two ways, attached to the stove's door (Fixed), or detached from the stove's door (Detachable).

PLEASE NOTE:

To attach the handle to the door, only use the

- Stainless Steel Handle. and
- Fitting Screw.





MAINTENANCE

Packaging

Your appliance is packaged to minimise exposure to adverse elements and should reach you in perfect condition. The product should be stored in a warm, dry environment and remain packaged until the fireplace is ready to be installed. It is essential that you inspect your casting prior to installation as it will be deemed to be of merchantable quality thereafter and no liability will be accepted for product removal, reinstallation or redecoration.

Cleaning Glass

This product is equipped with an air wash for the glass. Air is sucked in through the air vent above the fireplace and down along the inside of the glass. However, some soot will always stick to the glass, but the quantity will depend on the local draught conditions and adjustment of the air wash vent. Most of the soot layer will normally be burned off when the air wash vent is opened all the way and a fire is burning briskly in the fireplace.

Good advice! For normal cleaning, moisten a paper towel with warm water and add some ash from the burn chamber. Rub it over the glass and then clean the glass with clean water. Dry well and if it is necessary to clean the glass more thoroughly, we recommend using a glass cleaner (follow the instructions on the bottle).

Gaskets

The gaskets in the door will wear out over time and should be replaced as required in order to prevent runaway combustion.

• Cleaning - Polished cast iron

After unpacking your casting, you will need to remove the protective oil coating, which is applied to prevent tarnishing and rust, you need to wipe the polished areas with white spirit on a cloth, repeat this procedure until the surface is clean. **Under no circumstances** should a water-based cleaner be used to clean the surface – This will make the bare cast iron tarnish and then rust.

Cleaning – Painted cast iron

This finish can be maintained simply by dusting with a dedicated dry paint brush or brush attachment on a hoover. Any painted cast iron will need to 'cure' onto the surface when heat is first introduced, it is recommended for solid fuel fires to burn several small fires initially.

• Cleaning – 'Antique' graphite coated cast iron.

This traditional finish is simply graphite paste applied to a painted surface, use a dedicated cloth and shoe brush to clean and polish, this can be re-applied with another dedicated brush.

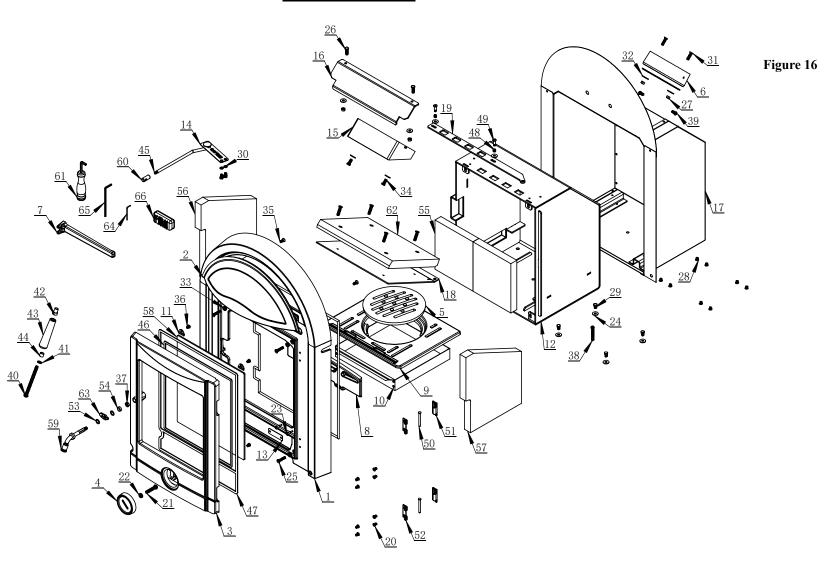
Warning

Cast Iron products are vulnerable to rust and tarnishing if exposed to dampness or water. Avoid the use of damp cloths, water-based liquids, furniture polish, detergents, oils, grease etc. onto the surface of the cast iron. Should your fireplace become wet for any reason, dab it gently with a simple dry cloth. This should prevent any tarnishing or rust forming.

It is normal for some discolouration to occur to the working parts of a cast iron fireplace; your fireplace casting can be restored to new with an application of heat resistant paint whenever required.

Consumable spares are available from: www.firespares.direct

SPARE PARTS



SPARE PARTS TABLE			
No.	Code	Name	Qty
1	I1403A	Frame	1
2	I1419	Top of Frame	1
3	I1407	Door	1
4	CAF0660	Spin valve	1
5	I1115	Moving grate	1
6	125 (2)	Collar	1
7	CA0105	Ashpan handle	1
8	050101.I1720L	Fuel Retainer	1
9	12514	Grate	1
10	CA1209	Ashpan	1
11	CA1112	Glass clips	4
12	CANK25	Inside frame	1
13	CAL0101-ZJ	Serial number	1
14	CA1102-B	Connecting plate	1
15	CA1918-I17U2	Collar damper	1
16	CA1908-I17U2	Air wash damper	1
17	CAWK27	Outside frame	1
18	CA1911-I17U2	Steel baffle	1
19	CA1113-I14U2F2SE	Air wash plate	1
20-41	1	Screws, Bolts, Washers	74
42	CA0103-ZH	Handle part	1
43	CA0144	Handle	1
44	CA0104-ZH	Spacer	1
45	CA1401-I19	Ridding rod	1

SPARE PARTS TABLE			
No.	Code	Name	Qty
46	CA0801	Fibre Rope	1
47	CA0802-1	Fibre Rope	1
48	CA0707	Spring	2
49	CAL0112	Screw	2
50	CA0614	Hinge shaft	2
51	CA1605	Hinge A	2
52	CA1606	Hinge B	2
53	CA0321	Washer	2
54	CA0148	Spacer	1
55	FRI17U211	Back brick	2
56	FRI17U212	Left brick	1
57	FRI17U213	Right brick	1
58	CA10-I11	Glass	1
59	CA0101-ZH-1	Handle assemble	1
60	CA0114-083	Cylindrical handle	1
61	CA0137	Ridding rod handle	1
62	FRI17U229	Baffle	1
63	CA1507A	Door handle catch	1
64	100103.NLFBS-007	Spanner	1
65	100103.NLFBS-004	Spanner	1
66	0899.CATSGZJ-001	Desiccant	1

OPERATIONAL PROBLEMS & TROUBLESHOOTING

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. 	 Use the recommended fuel. To light the fire, use small, very dry twigs. To maintain the fire, use split logs. Open lower spin wheel and top air control lever. Check that the flue is not obstructed, sweep it if necessary Seek advice from a chimney specialist.
Fire burns too quickly.	 Too much draught. Excessive draw. Poor quality wood.	 Ensure that the lower spin wheel is closed Partially close the top air control lever. Install a draught stabilizer (Consult your Dealer). Do not continuously burn small wood, sticks, bundles, carpentry offcuts (plywood, pallets), etc.
Smokes when lighting up.	Flue duct is cold.Room is in decompression.	 Burn paper and kindling wood to increase heat. In houses equipped with mechanical ventilation, open a window until the fire is well established.
Smokes while burning.	Draught is insufficientDown draught.Room is in decompression.	 Consult a chimney specialist. Check that the flue is not obstructed, sweep if necessary. Install an anti-down draught cowl. (Consult your Dealer). In houses equipped with Mechanical Ventilation, an outside air intake must be installed for the chimney.
Low heat output.	Incorrect Fuels.	Use the recommended fuel.

