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# Deben

WOOD AND MULTI FUEL FREE STANDING STOVES

CE, EN13240 & ECODESIGN

SMOKE EXEMPT APPROVED



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# Wood/Multifuel STOVE

## PEVEX STOVES

USER GUIDE

[www.pevexstoves.co.uk](http://www.pevexstoves.co.uk)



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## 1- Clean air act 1993 and smoke control areas

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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 Stove or from any fixed boiler if located in a designated smoke control area. It is also an offence to acquire an "unauthorised fuel" for use within a smoke control area unless it is used in an "exempt" appliance ("exempted" from the controls which generally apply in the smoke control area).

In UK 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. Similarly, in Scotland appliances are exempted by publication on a list by Scottish 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 Deben has been recommended for burning wood logs in a smoke control area. The Deben must be fitted with a permanent stop preventing closure of the secondary air control/air wash control (slide plate located under the stove) beyond 11mm open and tertiary air controls (slide plate located under the stove) beyond 12.5mm open.

### **PLEASE READ THESE INSTRUCTIONS CAREFULLY**

For your safety it is very important that your stove is correctly installed. Take care when assembling and moving the stove. It is made of steel and cast iron and is very heavy (66kgs)

The Deben has been recommended as suitable for use in smoke control areas when burning wood and other approved fuels.

A CO monitor is required to be installed in the same room as the appliance.

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## Wood Burning

Item No.	Deben	
Weight	66KGS	
Dimensions (W x D x H) mm	W373 x 369 exc handle) x 566 inc flue	
Flue Size	125mm	
Wood Logs Results, 0.75 hour refuels – using approx. 1kg		
Parameter		Mean
Test duration	h	0.75
Total efficiency	%	75.4
Nominal heat output	kW	4.3
Mean CO <sup>2</sup> emission	%	8
Mean CO emission	%	0.07
Mean CO emission (at 13 % O <sub>2</sub> )	%	0.07
Mean flue gas temperature	°C	272
Flue gas mass flow	g/s	4.9
Mean C <sub>n</sub> H <sub>m</sub> emission (at 13 % O <sub>2</sub> )	Nmg/m <sup>3</sup>	49
Mean NO <sub>x</sub> emission (at 13 % O <sub>2</sub> )	Nmg/m <sup>3</sup>	101
DIN Plus particulates (at 13 % O <sub>2</sub> )	Nmg/m <sup>3</sup>	16

Please note that details and specifications contained herein are correct at the time of going to print. We reserve the right to change specifications at any time without prior notice.

### 3. Important information about installing and using the stove

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-  All national and local regulations, including those referring to national and European standards, need to be complied with when installing the stove.
-  The stove must be installed by a registered installer or approved by your local building control officer.
-  Only use for domestic heating purposes only.
-  Burn only approved fuels (Wood or manufactured approved smokeless fuel). Do not use petroleum-based products or use as an incinerator doing this will invalidate your warranty.
-  This stove will become very hot whilst in operation and due care should be taken. Thick gloves should be used to operate the primary/secondary controls or reaching inside the

stove to position fuel or remove ash. Do not place flammable objects on or near the stove.



It is possible to fire the stove beyond its design capacity. This could damage the stove, so watch for signs of over firing - if any part of the stove starts to glow red, the stove is in an over fire 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.



The stove must NOT be installed into a chimney that serves any other appliance and it is only suitable for intermittent burning.



Do not make unauthorised changes or modifications to the stove



The stove and chimney flue must be regularly cleaned. It is especially important to check for blockages following a prolonged shutdown period. It is recommended that the stove and flue is regularly maintained by a competent engineer.

## 4.Unpacking & Assembly



**Warning: Due to the weight of the stove it is recommended that two people perform the unpacking and assembly**

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### Unpacking

Before assembling, please check contents against the following list and advise your dealer immediately if any parts are missing.

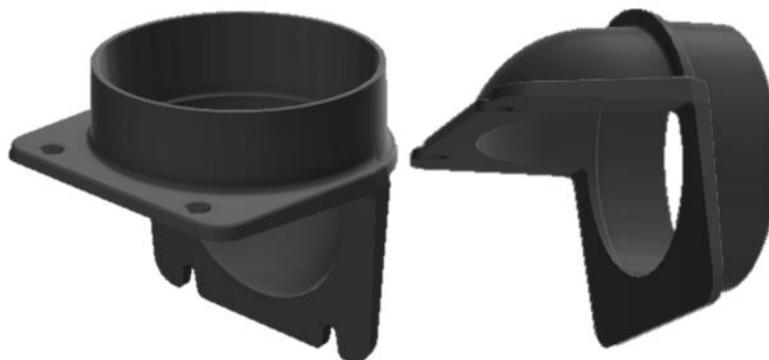
- 1 x Stove body
- 1 x Flue Connector c/w Fireproof Gasket
- 1 x Firebox Top Baffle Plate A
- 1 x Firebox Top Baffle Plate B
- 1 x Flue Blanking Plate
- 1 x Ash pan & Handle
- 1 x Grate
- 1 x Fixings Kit
- 1 x Heat Resistant Glove
- 1 x Vermiculite plate set

## Assembly

Unpack the stove and remove packing materials. Open the door and remove ashpan, flue adaptor and fixing kit from inside the stove.

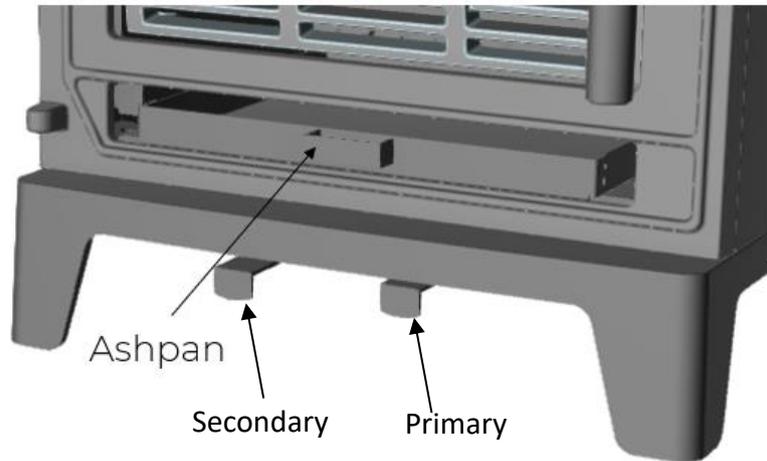
Sit the stove upright and attach the flue adaptor as shown in the picture below, using the bolts supplied. Ensure the fireproof gasket is correctly seated in the base of the flue adaptor.

1. If the rear mounting flue connector configuration is required, the flue connector can be



turned 90 deg so the outlet is pointing to the rear.

2. Set ashpan in position as shown as picture below. An ashpan handle is supplied for when the stove is in use



3. Adjust the stove leveling bolts shown in the picture below until the stove is level and evenly supported. Take care not to damage the floor surface.



## 5. Installation of the stove

**PLEASE READ THESE INSTRUCTIONS CAREFULLY**

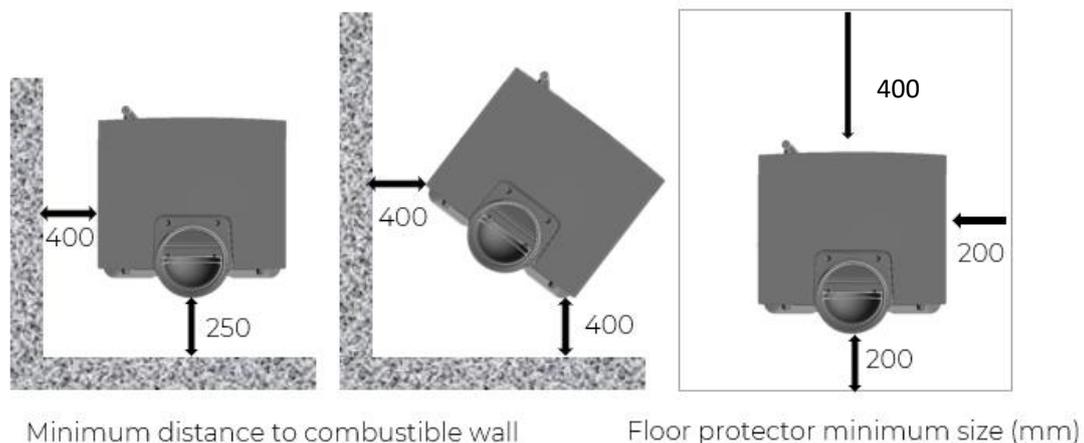


For your safety it is very important that your stove is correctly installed. We cannot accept any responsibility for any fault arising through incorrect installation or use.

### Distances to combustibles

The stove must have a minimum clearance to a combustible as below.

**Fig 4**



It is recommended that the stove be installed at least 400 mm from combustible materials. However, any household furnishings should be at least 1000mm away as they could be adversely affected by heat.

If the stove is to be installed in a non-combustible recess it is recommended that 100mm clearance is left at the back and sides for maintenance and to allow air to circulate around the stove

Due to the heat of a hot stove, a suitable fire guard should be used to provide additional protection. Never allow young children to be left unsupervised in a room containing a hot stove.

### Floor

National and local building regulations must be complied with when considering the floor or hearth where the stove is to be installed. The floor must be capable of bearing the weight of the stove and the maximum hearth temperature measured on testing was 40 deg C on full fire.

## **The Chimney**

The stove is supplied with a flue pipe connector for top or rear mounting with the fixing bolts supplied. The stove should **NOT** be connected to a shared chimney/flue system.

Flue pipes with a smaller cross-sectional area than that of the stove outlet should never be used. Flue pipes must not project into the chimney connector, such as to cause a restriction to the gas flow.

Consideration must be given to installing extra access in the flue system to ensure all sections can be cleaned and maintained.

## **Fume Emissions**

To avoid chimney problems, your fire should not be burnt slowly for longer than 12 hours without a period of fast burning.

Properly installed and operated, this stove will not emit fumes. Occasional fumes from refueling may occur. Persistent fume emission must not be tolerated. If fume emission persists, the following immediate action should be taken:

1. Open doors and windows to ventilate room.
2. Let the fire go out, or eject and safely dispose of fuel from the stove.
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.

## **6. Operating Instructions**

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### **The controls**

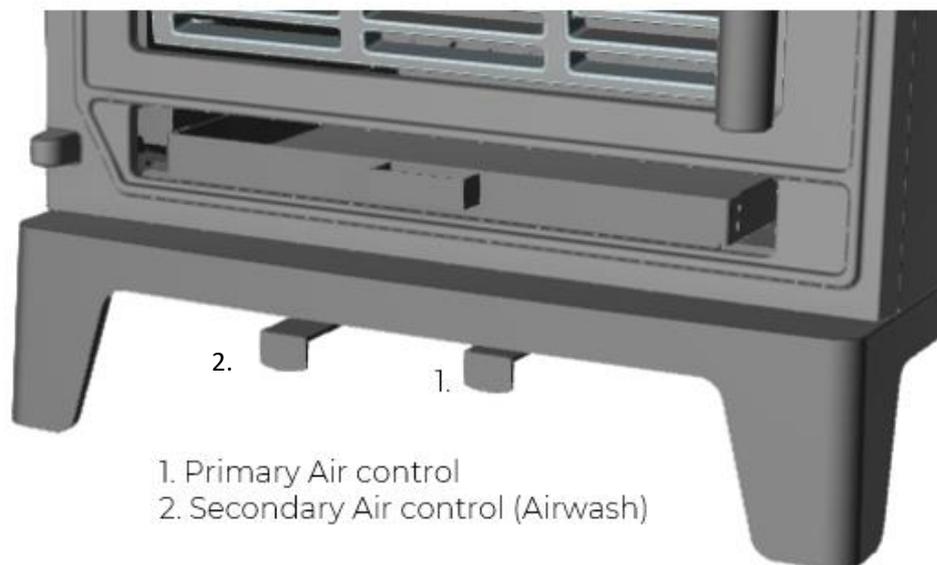
The amount of heat emitted by the stove is regulated using the air control sliders at front of

the stove.

Using primary air when burning mineral fuel and secondary air when burning wood. The need for de-ashing the appliance more frequently when burning mineral fuel.

By adjusting the degree to which the primary air and secondary air-wash vents are opened, good control of the combustion will be established. It is recommended for woodburning that once the fire is established that you shut the primary off completely (fully depressed) and you set the secondary air wash control around its mid-point position.

The “air-wash” feature when used, should function effectively to keep the inside of the door glass clear of deposits. However, you may need to make adjustments over a period of time to find the best position for optimum burning which is determined by the wood being burnt, chimney draft and the atmospheric conditions.



**WARNING:**



**The temperature reached by these items during operation may cause an injury to an end-user. As these are intended to be adjusted during operation, it is recommended that protective gloves are worn when handling these parts.**

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## Fuel

The stove will function with wood or manufactured smokeless fuel, but in general all fuel should be dry and timber should be well seasoned so as to have a moisture content below 20%. The use of damp wood will result in more soot and tar deposits being left in the chimney, flue and stove, and will not release heat if thermal energy is being used to drive out moisture from the fuel.

**DO NOT BURN** wet or unseasoned wood, construction timber, painted or treated wood, driftwood or manufactured board products. Doing so will result in the wood burning inefficiently and excess smoke, soot and tar will be produced. This will coat and damage the internal components of the stove and flue and could result in a chimney fire. Burning incorrect or prohibited fuels e.g., house coal, fuels containing high levels of petroleum coke, Sulphur or contaminated wood (paint, varnish, creosotes etc.) will invalidate your warranty.

## Before lighting

If using for the first time, or following a long period out of use check that the flue is clear and unobstructed.

Check that the ash pan is empty and in position.

### **WARNING:**



During the first few times the stove is used, the heat resistant paint will be curing, and may give off small amounts of smoke and odours. This is completely normal for this type of appliance, and the room should be well ventilated. To aid this process and not damage the stove finish, the first few times a new stove is used the fire should be kept to a moderate size, and not fired vigorously.

## Lighting a wood fire

Place firelighters or screwed up newspaper onto the fire grate along with kindling and light the fire with a taper.

When the firelighters or newspaper are burning, leave the door ajar about 1 to 2 cm to achieve a good draw and avoid condensation. Allow the burning kindling to warm up the chimney.

After 2 to 5 minutes the chimney should be warm enough to create a good draw and the door can be closed but leave the air controls open (full extended) before adjusting to a position for comfort and heat

Once the kindling has formed a good bed of glowing embers the stove can be loaded with 4 or 5 pieces of wood with an approximate size of 200mm by 100mm (*do not be tempted to overfill the firebox and risk fuel falling onto the glass or out the fire as the door is opened*)

**WARNING:**



When opening the door always open gently for the first 2 to 3 cm to allow the pressure to equalise and stop smoke from escaping.

The stove should not be operated with either door left open for long periods.

The stove door should never be left open when the stove is in use.

## Refueling Procedure

Always refuel onto hot embers, if there is insufficient burning material in the fire bed to light a new fuel charge, excessive smoke emission can occur. Refueling 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

**WARNING:**



Directly after re-fueling, it may be necessary to operate with the door ajar for a period in order to maintain flames on the new re-fuel charge.

Do not leave the fire unattended until the flames are well established on the newly charged logs.

It is important to follow these instructions in order to achieve clean burning and to maximise the efficiency of the stove.

The stove must not be overloaded with fuel. Overloading can cause excess smoke. Following the above procedure will maximise the performance of the stove. Typically, the four logs will burn with an attractive flame pattern and will last for about an hour (although this will depend on weather conditions, e.g. whether it is windy, and specific installations, e.g. chimney dimensions)

**WARNING:**



If there is insufficient burning material in the fire bed to light a new fuel charge, excessive smoke emission can occur. Refueling 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

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

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.

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

## **Ash removal from the stove**

Before removing the ash from the stove, make sure that all the fuel has burned out and the ash has cooled down, use a companion set tool to push the ash fall from the bed of the fire into the ash pan underneath. Take out of the ashpan and dispose of the ash safely.

### **WARNING**



Take great care when removing and emptying the ash pan. It may be very hot and still contain burning or smouldering embers and is a fire risk.

## **7.Guidance on safe operation**

### **Fire can be very dangerous**

During operation, the stove and all the fittings (door handles and controls) get very hot.

### **Do not over fire the stove.**

It is possible to fire the stove to such an extent that damage may occur. Look out for parts of the stove or flue glowing red hot. If such a situation occurs adjust the air supply accordingly to reduce the burning rate. If the stove is over fired your warranty will be invalid

### **Chimney fire**

In the event of a chimney fire:

Shut all air controls immediately

Raise the alarm and evacuate the building

Call the fire brigade

Do not re-enter the building

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### **Fumes**

If installed, operated and maintained correctly the stove will not emit fumes into the room

other than occasionally very small amounts when re-fueling or de-ashing.

If fumes are being emitted during normal operation, ventilate the room by opening all doors and windows.

Let the fire burn out

Leave the room

Check the stove, flue and chimney for blockages

Do not re-use the stove until the cause of the problem has been identified and rectified.

If required seek expert help.

## **Adverse weather conditions**

In a small number of installations, very occasionally in specific weather conditions (direction of wind) the draw of the chimney may be affected causing a downdraft and fumes to be emitted into the room.

If this is the case the stove should not be used and advice sought from a professional flue installer who would be able to advise on possible solutions such as an anti-downdraft cowl.

## **8.Maintenance**

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### **Cleaning**

The inside of the stove may require regular cleaning, especially during periods of peak use, the frequency of this being indicated by experience. It is advisable to wear a dust mask, protective gloves and safety glasses when cleaning. Use a stiff brush and industrial type vacuum cleaner to dislodge and remove as much material as possible, starting at the top of the stove and working down to the bottom. Particular attention should be given to the air inlet controls which can become obstructed.

### **General Maintenance**

Take this opportunity to check for any damaged parts inside the stove. In the event of damage or broken components, replacements can be obtained from your local distributor. On no account should unauthorised spare parts be used.

The stove and flue way should be inspected and maintained when in a cold condition. No

unauthorised modification of this product should be carried out. This stove requires regular maintenance by a competent engineer.

## **Stove body**

The stove is finished with a heat-resistant paint which can be cleaned with a soft brush. Wait until the stove has cooled down before doing this. This finish can be renovated with stove paint from authorised supplier, although the paint may not be an exact match and it may be necessary to repaint the complete stove.

If the stove is purely ornamental, painting will provide a durable, attractive finish. If the stove is used for heating, a high temperature heat resistant paint must be used, in either aerosol or brush applied form. Should rust become apparent, clean thoroughly with a wire brush and apply a suitable anti-rust treatment.

During prolonged periods out of use, the air inlets should be left open and the door left slightly ajar in order to circulate fresh air and discourage condensation from forming which could encourage corrosion.

## **Fire Rope**

Check the rope around the door and glass, if rope is becoming detached, replace with rope approved for this purpose.

Inspect the fireproof door seals where fitted, to ensure there is an effective seal around the door and re-fix it if loose using stove rope adhesive. If in poor condition it should be replaced.

## **Stove glass**

Clean any glass panels when cool, avoiding abrasive substances which could scratch the glass and make subsequent cleaning more difficult. Wet logs against a heated glass, a badly aimed poker or heavy slamming of the doors could crack the glass panels. The glass will not fracture with heat. Never replace any broken glass with glass not approved for use with stoves.

The window glass should remain clean during normal use but it can become blackened if the stove is being operated with either damp fuels or at a slow burn rate. The blackening may be dispersed by burning at a much higher temperature, or it may be cleaned off using specialist glass cleaner.

In the event of the glass being broken, it can be removed by unscrewing the retaining clips, taking care not to damage the fireproof seal. The replacement glass should be carefully placed against the seal and the retaining clips re-tensioned. Take care to tension these evenly or there is a risk of breaking the new glass pane.

## Chimney

It is important to have the chimney cleaned at least once a year.

Regular inspection and cleaning of the internal components of the stove can indicate if the chimney requires more frequent cleaning.

If the stove has been unused for an extended period (during the summer) the chimney should be checked by a competent person before use.

### Note

All parts that are in direct contact with the fire (grate, baffle, back or side bricks) are considered as normal wearing parts. Their life will depend on how vigorously the stove is operated and they must be inspected and maintained on a regular basis. If they become worn, damaged or not positioned correctly, non-wear parts such as the stove top and sides will be exposed to excessive heat and may be damaged. Only use replacement parts recommended by the manufacturer.

### TERMS AND CONDITIONS

Your Pevex stoves Ecodesign stove range is guaranteed against any defects providing:

1. The stove was installed according to our instructions and installation was carried out by a qualified Hetas or an appropriate Building Control Certificate of Completion was issued which must accompany any claim
2. No damage has occurred during the installation
3. The chimney has either been inspected and repaired as necessary or replaced with a suitable flue system and any high draft issues have been remedied
4. The serial number of the stove must accompany the claim
5. The stove must be kept in a continuous serviceable condition with no corrosion evident or allowed to have taken place. If older than 12 months then proof of an annual service record must be provided.
6. There have been no modifications made to the construction or internal components or incorrect service parts installed
7. The stove has not been over-fired through:

- a. Overfilling the firebox with fuel and/or burning it continuously with fully open air sliders
  - b. Burning incorrect or prohibited fuels as mentioned on page 11 e.g., house coal, fuels containing high levels of petroleum coke, Sulphur or contaminated wood (paint, varnish, creosotes etc.)
8. Excessive ash when burning wood or solid fuel has been removed
  9. The stove has not been allowed to slumber continuously overnight
  10. The stove is not used in a damp environment
  11. The stove has not been used in a commercial environment (rental property, hotel, public barn etc.) where there is opportunity for the members of the public who are not familiar to the operation to misuse or abuse the safe operation of it.

#### **LIMITATION OF WARRANTY**

The warranty is not transferrable and will only stay with the original retail purchaser. Copy of the original sales receipt will need to be seen as proof of purchase. It does not cover such things as unauthorised modifications or repairs, misuse or abuse, accidental damage, illegal installations and if the stove has not been serviced every 12 months.

Peveex will not under any circumstances cover any incidental or consequential loss which includes any commercial loss, damage to any furnishings, damage to non-related products, removal/reinstallation costs, transports delay or additional transport costs or any injury to persons or property.

The Peveex warranty does not affect your statutory rights.

## **9. Fault Finding**

### **Fire will not burn**

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The fuel is too wet and not suitable

Air inlets to the stove are blocked

The flue is blocked or restricted

Inadequate air supply into the room

### **Soot build up on glass**

Fuel is too wet

Fuel pieces are too large and “smouldering” rather than burning.

The stove operating temperature is too low

The stove is being run too “slow” with not enough air or poor chimney draft

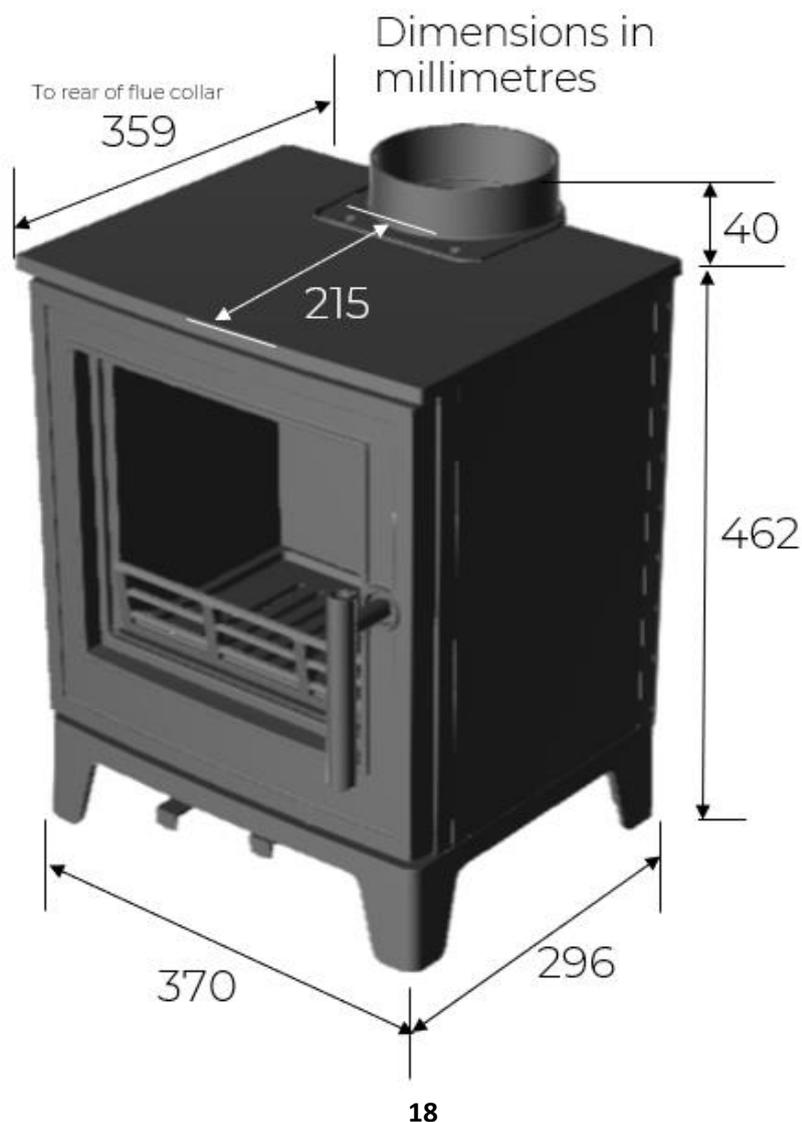
### **Excessive wear on internal parts**

Stove fired too vigorously

Too little air passing through the bottom grate

Use of wood that is too dry (e.g. wood from old furniture)

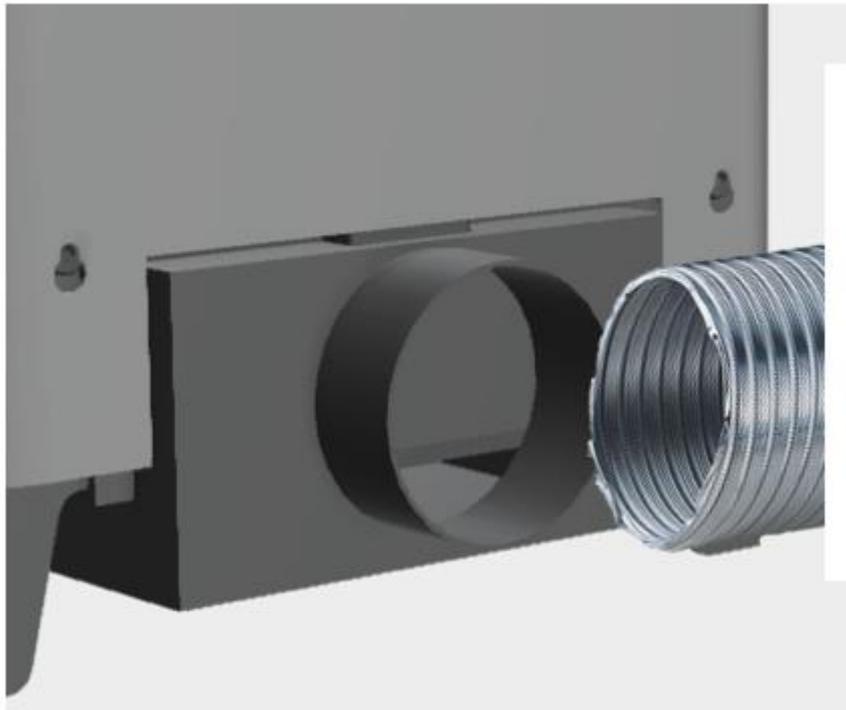
### **Stove Dimensions**



## Outside air instructions:

The use of the outside air function is optional. A simple fire resistant flexible or rigid 100mm inside diameter tube is required to do this directly through an outside wall connected to a suitable outside vent is required, please consult your installation engineer.

The performance of the stove is not affected by either way of installing the unit. The function of the outside air unit is not to take oxygen from the room but from outside.





**A World of Stoves, A world of Choice**

## **Pevex Enterprises Ltd**

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