



# Operating Instructions

## Bohemia X40 Cube Bioethanol Stove



### Please Note:

As this appliance requires no chimney or flue, the appliance does not need to be installed by a person of the competent persons scheme (CPS) such as Hetas or Oftec. However, all guidelines and distances stated within this manual must be adhered to.

A carbon monoxide alarm must be fitted in a suitable location as part of the installation. Instructions on operation, fuel and maintenance shall be included within this document.

Please keep this document for the full duration of the warranty period. It is recommended to retain this document for general references to the operations and maintenance of the appliance.

Pevex Enterprises Ltd, Unit MP7 Kirrawah Business Park, Newbourne Road,  
Waldringfield, Nr Woodbridge, IP12 4PR

Thank you for purchasing your Pe vex Bohemia X40 Cube Bio stove, developed with efficiency and easy of use in mind. These instructions should help to ensure that your stove maintains its efficient burn and clean appearance.

## CONTENTS

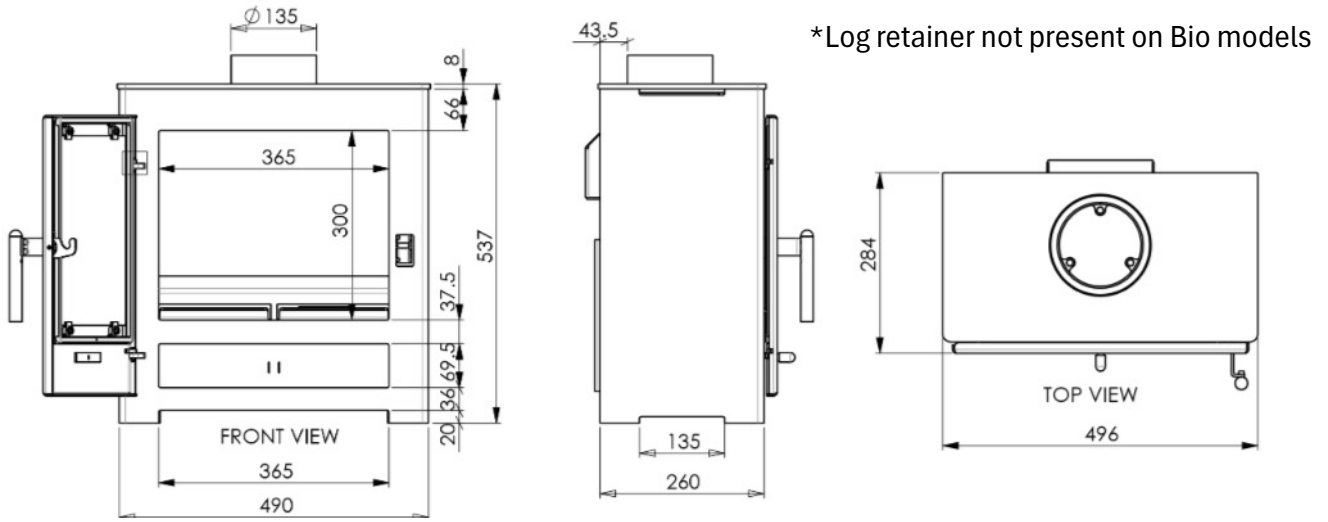
Stove Details	3
Operating Instructions & Stove Contents	4
Controls & Burner Installation	6
Troubleshooting	8
Maintenance & Servicing	9
Installation Instructions	11
Warranty Information	13

## Product Fiche

Model	X40 Cube Bio
Energy Efficiency Class	A+
Output Range	1-3kW
Operating Efficiency	95-100%
Safety Precautions	The unit must be assembled & maintained in accordance with the manufacturers operating manual.

# STOVE DETAILS

## Dimensions



## Data

	To Combustibles	To Non-Combustible	
Rear Wall	100	50	mm
Side Wall	200	100	mm
Front	1200	N/A	mm
Above	750	200	mm
Rated Output		2.5	kW
Energy Efficiency		95-100%	%
Model Weight		65	Kg
Hearth Temperature		<100	°C

All tests are carried out in-house with official UK/EU testing to be completed - results to be updated accordingly when complete.

# USER OPERATING INSTRUCTIONS

The appliance is suitable for intermittent use and should not be operated in a continuous fashion. For example, overnight burning. Ensure all sections of this manual are read before use. We recommend using the stove gloves & tool provided whenever operating the appliance, whilst a cool touch handle is present, the chassis and internals of the stove will be hot under operation and can cause harm if care is not taken.

## Recommended Fuels

The X40 Cube Bio can only be used with liquid bioethanol containing an ethanol content of 96% or above.

**\*Bioethanol Gel Cannot Be Used In This Appliance\***

## Please Note

The use of fuel with an ethanol content lower than 96% can result in damages to the burner or the chassis itself. The amount of heat, CO<sub>2</sub> & water vapor produced will vary between the fuels.

When refueling the appliance, ensure that any excess spillage from the shroud or stove are wiped clean with a cloth or tissue. Spillages can ignite once the fire has been started.

## Lighting & Refueling

These instructions only contain guidelines for operating your appliance. However they should not be deviated from for your own safety.

## Please Note

During the initial week of use, to avoid damaging the paint or steel, we recommend 3-4 smaller fires using a reduced amount of fuel with the closure plate at the mid-point to reduce the heat output - further instruction on this can be found on page .

During this process, to properly cure the door & glass seals, we advise allowing the the stove to cool completely before opening the door.

- Do not leave the stove unattended whilst lighting.
- Do not operate the appliance with the door open with the exception of the instructions stated below.
- Whilst the stove is complete with a cool touch handle this will still get warm when in use. We recommend using the gloves provided when operating the handle or air control after ignition.

# Initial Lighting

On initial lighting please ensure that the room is well ventilated with doors & windows open in necessary, as it is common for the stove to emit smoke and odour as the paint cures to the steel. Allow for the appliance to burn slowly for approximately 2-3 hours to evaporate any residual moisture within the chassis.

## Lighting

1. Open the door on the appliance.
2. Slide the closure plate of the burner to the rear most point.
3. Using a funnel to avoid spillage, pour in the desired fuel amount into the burner reservoir. **\*Do not exceed the 'MAX' fill line\***
4. Using a cloth or tissue clean any spillage from the burner shroud and closure plate.
5. Using a long nosed gas lighter or long match, ignite the fuel.
6. Leave the door open for approximately 30 seconds for the flames to establish and expunge any moisture from the appliance.
7. Close the door slowly to prevent extinguishing or fanning the flames.

### Note:

**It is normal to experience condensation buildup on the stove glass, this will be exacerbated in colder properties, however will clear when as the appliance reaches operating temperature (within 30-60 minutes).**

**If the condensation does not clear and the flames die out, wipe the condensation clear to prevent staining or corrosion forming within.**

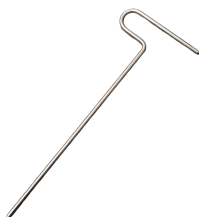
## Refueling

1. Check the existing fuel is extinguished. Do so by sliding the closure plate on the burner to the front most position, if uncertain, repeat this a few times in quick succession.
2. From this point simply pour in the desired amount of new fuel with the aid of a funnel

### Note:

3. Do not refuel if there are any flames present.
4. Do not refuel onto a hot surface, let the appliance cool prior to refueling.
5. Ensure the closure plate is in the rear most position at all times when refueling.

# Stove Contents



Burner Handle



Burner Tray & Closure Plate



Burner Shroud

# CONTROLS & BURNER INSTALLATION

The X40 Cube Bio does not have any independent fuel control. Your sole source of restricting the fuel usage, and subsequent flame, is the closure plate on the burner unit.

Closure Plate Position	Effect
Rear Most	The position used during refueling, and when wanting the maximum burn rate.
Mid-Point	Provides a restricted burn rate, with the compromise of reduced flames and heat. This can be adjusted to your requirements, always use the tool provided when adjusting the burner unit.
Front Most	Upper air inlet on the steel bar at the rear of the appliance. Secondary and tertiary air combine, flowing over the fuel improving efficiency.

## Installing The Burner

Open the stove and ensure that the chamber is empty of any debris. (Fig 1)

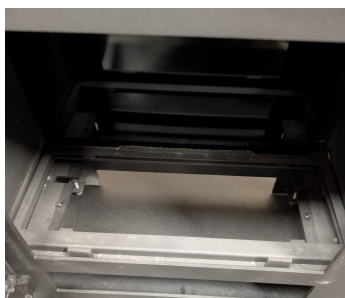


Fig 1

Place in the burner shroud, lift at 45° on the left side, then angle the piece in and sit it flat in the unit. (Fig 2)

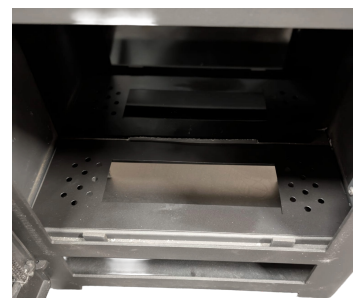


Fig 2



Fig 3



Fig 4

Place in the burner tray with the opening facing the front - do not install with the opening at the rear. (Fig 3)

Place in the closure plate for the tray with the pegs upright and facing the front of the stove. (Fig 4)



Fig 5

If you have opted for the optional ceramic logs, these can now be placed in the chamber.

Fig 5 (see left) is only an example. There is no set layout for the logs, however these should never be placed above the opening on the burner unit.

# IMPORTANT NOTES

## Fire Guards

A fireguard must always be used in the presence of children, the elderly or the infirm to ensure their safety. The fireguard must be manufactured in accordance with BS8423 - Fireguards for use with solid fuel appliances.

## Warning Notes

When installed and operated correctly, this appliance will emit not fumes due to the clean nature of bioethanol when burnt.

Under incomplete combustions small non-harmful levels of CO & NoX can be produced. Due to this a Carbon Monoxide detector is required to be installed in a permitted location.

## Ventilation

It is essential that the appliance has adequate air supply for combustion and ventilation. Requirements of this can be found within Building Regulations Approved Document J. As a general rule, bioethanol stoves will require a minimum room size of 40m<sup>3</sup> (Length x Width x Height) though shall vary on the burn rate of the particular model.

## Carbon Monoxide Detector

All new or replacement wood, solid fuel, biomass or bioethanol appliances installed within a dwelling now require the fitting of a carbon monoxide alarm under building regulations. This must be fitted in a suitable location within the same room of the appliance. The installation of an alarm is not considered a substitute for regular servicing or maintenance of an appliance. Further guidance can be found in the latest issue of BS EN 50292 and the alarm instructions.

## Aerosols

Do not use an aerosol spray can on or near the appliance whilst under operation. There is a risk of flash ignition of the spray or explosion.

## Extractor Fan

The fitting of a stove in a room containing any extractor fan should be avoided where possible. If unavoidable, the suitability of the installation location is at the users discretion. Extractor fans can cause issues with air flow preventing the appliance from operating as intended.

## Warning

The appliance will be hot whilst under any operation and due care should be taken.

Whilst a 'cool touch' handle is fitted, we advise the use of the gloves provided when operating the controls and handle.

# TROUBLESHOOTING

## Flames Die Out

The most common reason for the flames to die out after ignition would be due to a lack of fuel, or insufficient air supply to the room. Prior to lighting please ensure the appliance has been filled accordingly and that there is no objects stacked/stored around the base of the appliance.

If the issue persists then please check the air supply to the room isn't being restricted (e.g. extractor fan, blocked wall/window vents).

## Operation Of The Fire

There are a variety of causes for problem with the appliance operation.

- Reduced air supply to the appliance.
- Incorrect use of burner controls.
- Fuel quality & ethanol content.

## Noise

As the appliance heats and cools it is common to hear a ticking noise, this is the steel expanding and contracting under heat. This is normal and does not mean there is an issue with the appliance.

## Paint Curing

The paint curing process requires slow gentle burning to ensure the surface coating adheres correctly and free from fumes or odours. When completing the curing process we advise opening any door and windows to ensure the area is well ventilated.

If the surface of the stove appears to turn grey, flake or peel, this would be a sign of overfiring.

In the case the paint does bubble, peel, or flake, it's required to sand down the affected area and apply a new coat of paint which Pevex can provide.

## Glass

It is normal to experience condensation on the glass under initial lighting. As the stove body heats, the cooler air from within with condensate then clear once the appliance reaches operating temperature (30-60mins).

If the condensation does not clear and the fire dies completely, ensure the condensation is wiped clear to prevent damage or corrosion to the appliance.

## Door Rope

Had the door sealing rope become loose, it can be caused by not completing the curing phase or overfiring the appliance. Reattach using stove rope adhesive, then follow the steps outlined in 'Lighting & Refueling' on page 4.

# MAINTENANCE & SERVICING

## Periods Of Prolonged Non-Use

If the stove is to be left unused for a prolonged period of time, it should be given a thorough clean to remove any debris. The unburnt fuel cannot be removed, instead move the closure plate on the burner to the front position to close this. This is not an airtight component and the fuel will naturally evaporate over time.

If the appliance hasn't been used for a long period, such as the warmer spring & summer months, the chassis should be emptied of all components and cleaned to remove any dust or insects which may have entered the chamber.

## Glass Panel

Process to remove and replace the glass pane:

1. Ensure both the glass and seal is available to hand at the time of replacement.
2. Unscrew and remove the 4 glass retainer clips which hold the pane in place.
3. Remove the pane, the seal will be attached to this.
4. Fit the new glass seal to the pane.
5. When ready, hold the glass in position and replace the glass retaining clips. Ensure these are only hand tight to ensure expansion & contraction of the glass.

The glass can be cleaned using a damp soft cloth. For tougher stains a purpose made glass cleaning solution may be required, if so apply this to the cloth rather than directly to the stove as it can run and soak into the seals.

The stove uses toughened glass capable of withstanding extreme heat. Typical causes for glass failures are accidental damage, slamming of the door, and fuel leaning heavily on the glass for a long period.

## Stove Body

The stove body can be wiped with a damp, lint free cloth. Any further scuffs/marks can be resprayed with paint available from Pevex.

## Door/Glass Seals

Check the door rope seal periodically. If the rope has become detached in areas, use stove rope adhesive to reattach. Had the seal become worn or frayed, a replacement can be purchased from Pevex.

The glass seal will have to be replaced had a new piece of glass be required as this the self-adhesive side attaches to the glass itself. Over time the seal may also discolour, this is expected through general usage.

## Chimney & Flue

If a decorative flue is fitted to the top of the appliance, we would recommend removing and cleaning this periodically. This is solely to remove any dust, cobwebs or insect which may have entered it over time.

## Annual Service

Peveex recommends that this appliance in any form of installation be serviced at least once annually, preferably prior to the heating season starting, ensuring that spare parts can be received in time if required. This should be carried out by your experienced chimney sweep.

- Removal of all internal components for cleaning and inspection.
- Removal and clean of the decorative flue.
- Removal of all debris within the appliance.
- Cleaning and inspection of all interior surfaces for damage/corrosion. If damage/corrosion were to be found, we advise you contact ourselves for further advise.
- Inspection of all seals, and glass.
- Check over of paint for damages, clean and respray if required.

## Spare Parts

All spare parts can be purchased from Peveex directly. See spares parts list below for further details.

**PLEASE NOTE:** Only manufacturer recommended parts may be used

Description	Product Code	Included In Warranty?
Red Leather Gloves (Pair)	00GLOVE	No
Senotherm Black Paint (400ml)	03SENB	No
Glass	03X40G	No
Door Rope Kit	03X40DRK	No
Glass Rope Kit	03X40GRK	No

**Warning!** Modifications are not permitted and will void your warranty

# Hearth & Fire Surround

Hearth constructions must comply with the current Building Regulations. The stove must be installed on a floor with adequate load-bearing capacity; otherwise suitable measures should be taken. If the existing construction does not meet requirements, suitable measures (e.g. load distribution plate) should be put in place.

There are no specific hearth requirements for a bioethanol stove as they do not produce any ash or embers. However it is recommended to sit the appliance on a minimum 12mm thickness piece of non-combustible material (e.g. slate, glass or granite), which extends 200mm either side and between 150-200mm in front of the unit to adhere to the distances to combustible materials advised earlier in this document.

The fireplace should allow good air circulation and should be dimensioned to avoid overheating. A gap of 100mm each side and 200mm above the appliance should be sufficient (if non-combustible material is used). If a wooden beam is present then a minimum distance of 750mm should be maintained. A protective shield may be required for the mantelpiece or beam in some situations. The distance behind the appliance to allow access must be a minimum of 50mm, but may need to be increased to meet Building Regulations.

## Health & Safety Guidance

Special care must be taken when installing the appliance, such that the requirements of the Health & Safety at Work Act are met.

### Handling

The appliance is heavy. Adequate facilities must be available for loading, unloading and site handling.

### Metal Parts

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

### Stove Performance

This is a domestic appliance and must only be used in accordance with these instructions.

### Important Warning

This stove must be installed to a suitably sized room to avoid operating issues.

### Asbestos

This product contains no asbestos. If there is a possibility of asbestos in the installation then seek specialist guidance.

### Fire Cement

Some fire cements are caustic and should not come into contact with skin. In case of contact, wash immediately with plenty of water.

## Air Supply

The room or space containing this appliance does not need a permanent, unobstructed air opening unless the air permeability is less than  $5\text{m}^3/(\text{h}\cdot\text{m}^2)$ . Refer to Building Regulations Document J.

If a draught stabiliser is fitted, refer to Building Regulations Document J.

Due consideration should be given to all other appliances in the same room/space. All air openings must remain clear.

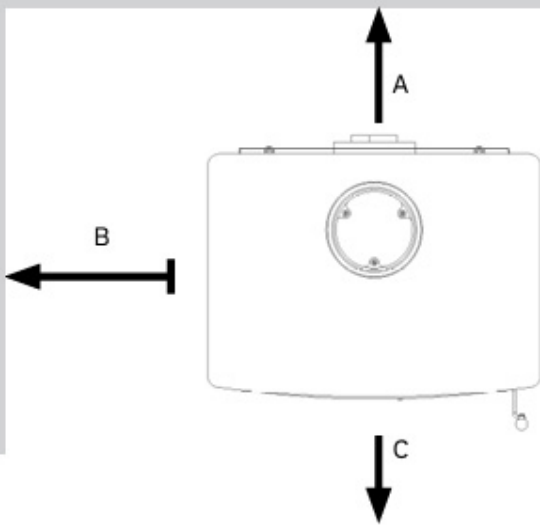
## Certificate of Compliance

There is no certificate of compliance provided for bioethanol burning products as these do not require a member of a competent persons scheme (CPS) to complete the installation.

## Airtight Houses

Further attention is required in airtight houses where the design air permeability is less than  $5\text{m}^3/(\text{h}\cdot\text{m}^2)$ . Approved Document J & Appendix F gives further information. A window opening is not sufficient.

## Distance To Combustible Materials



	To Combustibles	To Non-Combustible
A	100mm	50mm
B	200mm	100mm
C	1200mm	1200mm

When the appliance is to be installed within the vicinity of combustible walls the following minimum distances must be maintained.

## Unpacking

Remove all packaging. Remove internal components to ease the handling of the appliance and protect them from damage during installation

- Instructions
- Gloves
- Burner unit & Shroud
- Optional flue collar & ceramic logs if selected


## Flue Collar & Blanking Plate

The flue collar and blanking plate can only be fitted to the top of the appliance. These can be swapped over had you wish to install a decorative flue pipe.

## Direct Air Kit

There is no direct air kit available for this model

## Data Plate


**Bohemix X40 Cube Bioethanol**

<b>Product Type</b>	Room heater fired by liquid fuel	
<b>Intended Use</b>	Residential room heater	
<b>Fuel Type</b>	Liquid bioethanol	

---

	Minimum clearances (mm)	
	Combustible Materials	Non-combustible Materials
Rear	100	50
Side	200	100
Front (e.g. furniture)	1200	N/A
Above	750	200

---

Thermal Output	1-3	kW
Energy Efficiency	95-100	%
CO Emissions	TBC	%
Particulates	TBC	mg/m <sup>3</sup>
OGC	TBC	mg/m <sup>3</sup>
NOx	TBC	mg/m <sup>3</sup>

---

Follow the user instructions.  
 This stove does not require a flue connection.  
 Use only recommended fuels.  
 This stove is suitable for intermittent operation.

---

Pevex Enterprises Ltd, Unit MP7 Kirrawah Business Park, Newbourne Road,  
 Waldringfield, Nr Woodbridge, IP12 4PR

## Commissioning

Check that the burner unit and shroud are fitted correctly, the ceramic logs (if chosen) are not over the burner opening, and that the door closes correctly.

As this appliance does not require professional installation, this then becomes a self commissioned appliance. Ensure that this document in its entirety has been read, hearth requirements and safety distances have been met, and if required, a fireguard fitted around the appliance.

## Recycling

To dispose of the stove after product life has expired, please observe the following information:

- Dispose of the items correctly i.e. separate the parts to be disposed of in material groups.
- Always dispose of items in a way that is as sustainable as possible and that is in line with the current environmental protection, reprocessing/recycling disposal technology.

## Warranty Scheme

The chassis of the Woodbridge 5 comes with a standard 1-year warranty from the date of purchase. We also offer an extended 2-year warranty for those purchased by an authorized Pevex stockist. Consumable items such as firebricks, glass etc are not covered.

## Warranty Registration

To obtain the extended 2-year warranty the appliance must be registered with us within 28 days of installation. In order to register the warranty for your appliance please scan the QR code below or visit our website - [pevexstoves.co.uk](http://pevexstoves.co.uk)



Pevex Enterprises Ltd, Unit MP7 Kirrawah Business Park, Newbourne Road,  
Waldringfield, Nr Woodbridge, IP12 4PR