



Operating Instructions

MEGA LE Model



Do Not Throw Away

Please keep these Operating Instructions in a safe place for future reference

The model shown here is the Mega LE Pedestal



Pecan Engineering Pty Ltd proudly supports the activities of Landcare Australia through its membership of the AHHA

The MEGA LE freestanding wood heater was shown to meet the AS 4013/NZS 7403 Section 1.2.2(b) - HEAT OUTPUT EXCEEDS 25kW

Firstly check all local building and heating regulations. Different States, Territories and some Municipals have varying regulations about the installation and operation of wood stoves, your installer should be aware of these.

INTRODUCTION

Before any use of this appliance please read these instructions fully.

WARNING: ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED AS BREACHING AS/NZS 4013.

WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE FIRE.

WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHEN IT IS OPERATING.

WARNING: DO NOT STORE FUEL WITHIN HEATER INSTALLATION CLEARANCES.

WARNING: WHEN OPERATING THIS APPLIANCE AS AN OPEN FIRE USE A FIRE SCREEN.

WARNING: OPEN AIR CONTROL (AND DAMPER WHEN FITTED) BEFORE OPENING FIRING DOOR.

CAUTION: THIS APPLIANCE SHOULD NOT BE OPERATED WITH A CRACK GLASS

CAUTION: THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS.

CAUTION: THE USE OF SOME TYPES OF PRESERVATIVE TREATED WOOD AS A FUEL CAN BE HAZARDOUS.

The appliance or flue system should not be modified in any way without the written approval of the manufacturer. Extractor fans or cooker hoods must not be placed in the same room or space as this can cause appliance to emit smoke into the room.

APPLIANCE SERIAL NUMBER

This number can be found on the appliance specification label on the rear heat shield or on the compliance plate attached to the rear of the heater. This number may be required when ordering spare or replacement parts.

The Nectre MEGA LE has two air controls for controlling the fire.

① **Top Air Slide**, is a slide in (closed) and out (open) manual operation by the user that allows air to enter the firebox from above the door, where it is then drawn down into the base of the fire. It also functions as a air wash to keep the glass of the door clean. The knob of the air slide is made from bakelite.

② **Bottom Air Slide (Turbo Boost)** is a manual slide left (open) to right (closed) by the user that allows air to enter directly into the base of the fire and is used as a boost when either starting a fire or to excited the fire to generate more heat output quickly. - NOTE when operating the MEGA LE in the open position for extended duration will reduce the efficiency. Should always be closed when leaving the room.

③ The Nectre MEGA LE door handle is made from mild steel and has a stay cool spring screwed on. Warning: The handle may get hot if the appliance has been operating at High Burn setting for an extended period of time, in which case it is recommended using a protective glove or equivalent to open the door.



- ① Top air slide
- ② Bottom air slide (Turbo Boost)
- ③ Stay cool spring handle
- ④ 150mm diameter Flue
- ⑤ Cast iron door, ceramic glass

NOTE

Open the Top Air Slide before opening the door to eliminate the chance of back-draft and /or smoke entering the room.

USING YOUR MEGA LE FOR THE FIRST TIME

For the first few time the appliance is lit it will give off some odorous fumes, which is a curing of the paint as it heats. It is recommended that you do not touch the paint work while it is curing, otherwise it can leave a permanent mark on the appliance.

Once the paint is cured the fumes will dissipate. It is suggested that you keep the room well ventilated until these fumes have cleared.

RECOMMENDED FUELS

Burn only seasoned hardwood timber with moisture content of less than 20%. Newly cut wood should be allowed to dry (season) for 12 to 18 months before burning.

Wood should be stored in an environment which is protected from the weather to minimise any potential moisture content.

For best results, wood should not exceed 270-290mm in length and 150mm in diameter. Any larger and the appliance will not operate at its optimum. It is better to burn several smaller pieces of wood rather than one large single piece.

Poor quality timber:

- causes low combustion efficiency.
- produces poor emissions (smokey).
- results in additional build-up of creosote (soot) in the flue which will require regular cleaning and may result in a flue fire.

Do not burn painted, impregnated/treated wood, manufactured board products or pallet wood.

LIGHTING THE FIRE

1. Place firelighters and or paper plus dry kindling wood at the base of the firebox.
2. Open top and bottom air controls.
3. Light the paper and or firelighters.
4. Once the fire has taken hold, add larger pieces of wood. For optimal burning conditions, place the logs in a front to back orientation (right angles to the door opening). Too many logs may smother the fire.
5. Once the fire is established, close the bottom air slide.

RUNNING THE APPLIANCE

Top air slide regulates the burn time and heat output depending on the desired warmth.

HIGH HEAT OUTPUT

- After establishing the fire and loading with larger pieces of wood, leave it running with the top air slide fully open.
- Running the appliance with the door open will not produce maximum heating into the room as it will draw already warm air out of the same space.
- Running the appliance with the top and bottom air slides in the fully opened position will not produce the hottest fire as too much heat is lost up the flue.
- Running the appliance in this setting is not the most energy efficient.

LOW HEAT OUTPUT

- The heat output of the appliance can be reduced by closing the top air slide which reduces the oxygen intake to the fire, which slows down the burn rate.
- Best efficiency is achieved at this setting and increase burn times as a result. However, if not operated correctly this setting may result in higher particulate emissions (dirty burn).
- Before closing the top air slide make sure the fire is burning briskly. If not it may require the top air slide to be left open fully for 10-15mins before closing the air slide.
- To achieve the optimum from your appliance between clean burning and high efficiency it is suggested that top air is opened 4-5mm and the bottom air is fully closed.

RUNNING THE APPLIANCE

Reloading with more wood

- Open top air slide before opening the door.
- Rake or break up any existing coals on the base of the firebox.
- Load the wood with the length orientated front to back.
- Load smaller pieces rather than one large piece of wood for better results.
- Close the door with the top air slide fully opened for a minimum of 10 minutes for the wood to catch.
- Adjust the top air slide to the desired warmth.



ASH REMOVAL

Depending on the type of wood burnt and frequency, the ash will need to be removed every 2-6 weeks. Remove excess ash when necessary, placed in a non combustible container with a tightly fitting lid and moved outdoors immediate to a location clear of combustible materials.

Leave a small amount (1cm) of ash in the bottom of the firebox, helps insulate the base.

BURNING TIPS

Fuel quality

1. Use wood with a moisture content of less than 20%. Wood should not feel moist or damp, should not have moss or fungal growths.
2. Symptoms related to wet wood:
 - difficulty starting and keeping a fire burning well.
 - smoke and only small flames
 - dirty glass and or firebricks
 - rapid creosote build up in the flue
 - low heat output
 - short burn times and blue/grey smoke from flue outlet.
3. If seasoned wood is not used and some moisture is present, it suggested that the top air be used to regulate the required heat output and burn rate, it is recommended to leave the bottom air slide open 3-4mm.
4. Run the appliance at high heat output for a short period each day to avoid large build-up of tars and or creosote within the appliance and flue.

Flue draft

The flue has 2 main functions:

1. to remove smoke, gases and fumes
2. to provide a sufficient amount of draft (suction) in the appliance to ensure the fire keeps burning. Draft is a result of the rising hot air in the flue when the fire has been lit. The position, height and size of the flue can affect the performance of the draft. Refer to installation guide for details.

Factors affecting the flue draft include:

- insufficient height
- exterior obstructions cause turbulence
- high and gusty winds
- outside temperature and weather conditions
- blocked flue

FLUE / CHIMNEY FIRE

If a flue/chimney fire occurs:
close top and bottom air slides fully to smother the fire.

do not use the appliance until an accredited installer has assessed the cause and damage that may have occurred.

TROUBLESHOOTING TIPS

Glass in door blackening

- *Cause* - burning unseasoned wood (too wet) *Solution* - burn hardwood not more than 20% moisture.
- *Cause* - top air slide closed and a long burn cycle at low temperature. *Solution* - after re-stoked operate at high heat.
- *Cause* - insufficient flue draft. (installed correctly, correct length, poor position causing downdraft). *Solution* - contact installer.

Trouble starting a fire

- *Cause* - not enough ash in firebox base. *Solution* - always retain at least 1cm of ash

Glass in the door cracking

- *Cause* - possible over tightening of the screws on the stainless steel strip glass retainer. *Cause* - possible expansion of the cast iron door. *Cause* - loading the firebox with oversized logs.

FLUE CLEANING

It is recommended that a thorough check of the flue is done prior to the season for any build-ups (creosote) or any obstructions.

To do this:

- remove the baffle plate (see **Replacement of Baffles**)
- using a small mirror and a torch hold the mirror on a angle below the flue inside the firebox. A fine black powdery layer is normal, anything than this needs removing.
- refit the baffle

To clean the flue:

- a flue cleaning brush can be purchased from the dealer.
- with the baffles removed and a rope attached to the flue brush, it should be dropped from top of the flue (exterior) and pulled through the firebox.
- recheck the flue with mirror/torch.
- repeat if necessary.
- remove any buildup from within the firebox.
- replace the baffles.
- check the flue joins are secure for integrity.
- Alternatively a flue cleaning service can be sought to undertake the cleaning.

CLEANING PAINT WORK & GLASS

- The appliance, when cool can be cleaned with a damp cloth.
- Stove Bright metallic black paint can be used to touch up any faded areas.
- To clean the glass door, it is suggested that house hold window cleaner or a general purpose cleaner with a soft cloth is used.

Do not use abrasive cleaners, scourer pads or wire brush.

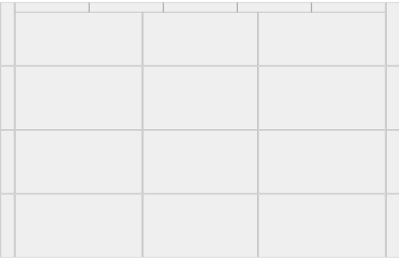
MAINTENANCE and SERVICING

REPLACEMENT OF FIREBRICKS

The purpose of the firebricks in the appliance is to increase thermal mass and to guarantee the longevity of the steel firebox. Over time the firebricks may become cracked and crumble away. If so, then they should be replaced soon after.

To replace the firebricks:

- Move any ash away from the base of the bricks.
- Raise the brick retainer so that the bricks can be removed.
- Replace with new bricks, and refit brick retainer.

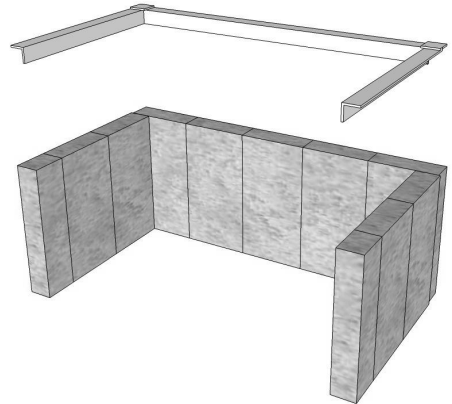


Firebrick configuration:

- Base of the firebox has 2 outside rows of full bricks measuring 234 x 118 x 40mm and a centre row which are shorter in width measuring 200 x 115 x 40mm
- Sides of firebox have 8 full bricks standing on their ends.
- Back of firebox is lined with 5 full bricks standing on their ends.

REPLACEMENT OF BRICK RETAINER

- Remove the side and rear fire bricks before fitting the brick retainer.
- With the retainer orientated with the arms pointing up (like a square 'U' shape), push one end into the back corner of the firebox.
- With the retainer in a diagonal orientation relative to the firebox, tilt the top slightly forward allowing the bottom corner to drop into the firebox at the front.
- Push the bottom front corner towards the back of the firebox allowing the top of the arm to enter the firebox.
- Continue pushing the bottom corner towards rear of firebox so that retainer sits flat in the firebox.
- Raise the retainer and re-install the fire bricks.



MAINTENANCE and SERVICING

REPLACEMENT OF BAFFLE PLATES

The MEGA LE is fitted with two thick steel baffle plates which help to retain the heat in the firebox by lengthening the path of the flame as well as protect the top plate of the heater.

Over time, the baffle may begin to sag a little due to the excessive heat. This will not affect the way the fire burns.

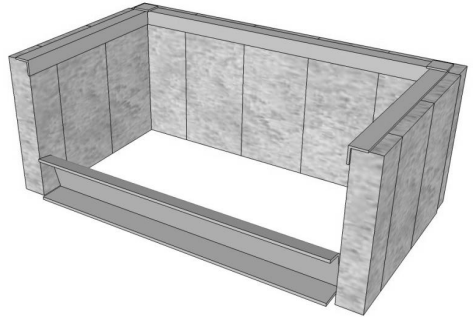
Eventually the baffle will burn through (5+ years) and if so will need to be replaced.

To remove the baffle plates:

- Lower baffle plate 500(w) x 300(d) x 12(h) mm :- raise the rear of the baffle plate, slide forward free from the support lugs, and out through the door opening.
- Upper baffle plate 490(w) x 245(d) x 6(h) mm :- slide baffle plate forward, free from the support lugs and out through the door opening.
- Repeat steps i) to iii) in reverse to replace with the new baffle plates.

REPLACEMENT OF ASH PLATE

- The ash plate acts to protect the front of the firebox below the door opening from the hot coal bed and fire.
- When positioning the ash plate, ensure that the front top edge is flush against the inside edge of the firebox beneath the door opening.



FITTING A NEW DOOR SEAL

- This task may be easier with the door removed from the appliance and laid horizontally on a work-bench.
- Remove any old seal from the door.
- Clean out the groove in the door that the seal was bedded in using a flat-end screw driver or equivalent.
- Run a thin bead of clear roof and gutter silicone along the groove.
- Starting at one end, press the new door seal rope into the groove on the door.
- Refit the door if it has been removed and close.

MAINTENANCE and SERVICING

FITTING A NEW DOOR GLASS

This task may be easier with the door removed from the appliance and laid horizontally. To replace the door glass:

- Two stainless steel strips hold the glass in place. Remove the four M4 size Phillips head screws from the stainless steel strips.
- Take out the glass, and check if the grey rope beneath needs replacing. If so replace this rope as well.
- Position the new glass on top of the grey rope and re-fit the stainless steel strips and M4 screws.
- Take extra care not to over-tighten the screws, otherwise the glass will crack when the heater gets hot and the door expands.
- On occasion, the M4 screws will have deteriorated from the constant heat in the firebox resulting in them snapping off when trying to loosen them. In this case, a new hole can be drilled in the door and tapped using a 3.4mm drill bit, and M4 tap.

ADJUSTING THE DOOR LATCH

- If the door does not close firmly, then the door latch can be adjusted.
- In the front lower right-hand corner of the door opening, inside the firebox, is a welded tab which the door latch secures against when the door is closed. Using a large flat-end screw driver, place it under the base of the tab and gently lever it out.
- Close the door with the door handle to test for any improvement. If no improvement, repeat process until door can be closed firmly.

REPLACEMENT SPARE PARTS LIST

FIREBRICKS

21 x full bricks – 234(h) x 118(w) x 40(d)mm
4 x half bricks – 175(h) x 115(w) x 40(d)mm

BRICK RETAINER

655mm x 445mm

BAFFLE PLATES

Upper Baffle Plate:
400(w) x 160(d) in 5mm steel
Lower Baffle Plate:
500(w) x 300(d) in 12mm steel

ASH PLATE

500(w) x 75(h) x 50(d)mm in 5mm steel

GLASS SEAL

1360mm 8mm x 3mm

GLASS OF DOOR

476mm x 200mm x 5mm

DOOR ROPE

1580mm x 13mm round braided ceramic rope

WARRANTY

Pecan Engineering Pty. Ltd. warrants this stove to be able to operate under normal use and service and within 10 years from the date of the original purchase on the terms herein shall repair or replace without cost to the original customer any part thereof which shall be returned to our factory, transportation charges prepaid and which our inspection shows would prevent operation.

This warranty does not apply to firebricks, brick retainer, baffle, door seal, glass, nor discolouration of the surface or tarnishing of chrome fittings all of which require normal service to maintain them.

Under the terms of this warranty, Pecan Engineering Pty. Ltd. assumes no responsibility for the labour costs involved in removing or replacing the stove. Nor shall Pecan Engineering Pty. Ltd. be liable for any injury, loss, or damage (direct, indirect or consequential) arising out of the use or inability to use the product, or its removal and replacement. All other stove warranties, expressed or implied are excluded to the extent possible to law. Any claims against Pecan Engineering Pty. Ltd. must be brought within Australian Jurisdiction. The Retailer does not have the authority to alter this warranty.

MANUFACTURER'S NAME & ADDRESS

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