





# skye E700D charnwood

Operating & Installation Instructions

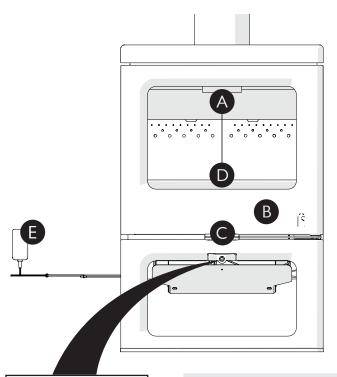
**AUSTRALIA** 

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# **QUICK GUIDE**





Throat plate

Improves efficiency of stove by slowing down flue gases

Door

Keep closed when stove is in use

Door handle

Pull to open

Fuel retainer

Ensure fuel does not protrude beyond retainer

9V AC/DC power adapter

Supplies power to the air control

#### AIR CONTROL

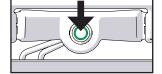
Blue light - Automatic mode

Green light - Room Temperature mode

Red light - Test mode

The intensity of the light displayed indicates the burn level. There are 5 levels in each mode, indicated by increasing light intensity.





#### MAINTENANCE AND CLEANING

**GLASS** 

Wipe with damp, lint free cloth. Any stubborn deposits on the glass may be removed with a proprietary stove glass cleaner or ceramic hob cleaner.

THROAT PLATE & UPPER BAFFLE

Take down once a month and clean. Sweep sooty deposits into fire

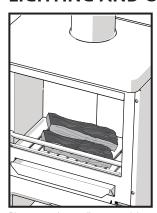
**CHIMNEY** 

Have chimney swept twice a year. Chimney can be swept through stove. Avoid damaging the temperature sensor, located on the right hand side,

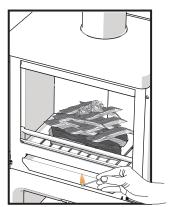
above upper baffle.

**SERVICING** Stove should be serviced by a professional at least once a year.

#### LIGHTING AND CONTROLLING THE FIRE



Place two dry, well seasoned logs (approx. 250mm long) left to right on the grate.



Build a stack of 6-8 kindling sticks on top of the logs and place a firelighter amongst the sticks. Leave space between the sticks to allow the air to circulate around and through them. Light the firelighter. Close the door.



After the inital fuel load has burnt down and a bed of hot embers has been established place one or two logs (*approx*. 250mm long) on top of the embers and shut the door.

# Suitable fuel for your Charnwood:

Wood logs

#### Unsuitable fuels:

Petroleum coke

Liquid fuel

Household waste

Coal singles

Small nuts or coal dust

Wet or unseasoned wood



Congratulations on becoming the owner of a Charnwood Skye E700D Stove. Your stove has been approved in smoke controlled areas to burn wood logs if it is used in accordance with these instructions. It is very important that you read and understand these instructions before using the stove. All local regulations and, if applicable, national standards must be complied with when operating this appliance.

Before lighting the stove check with the installer that the work and checks described in the installation instructions have been carried out correctly and that the chimney has been swept, is sound and free from any obstructions. This stove is not suitable for use in a shared flue system.

Remember that the stove will be hot and that it is made from hard materials – ensure that you have good balance before operating the fire. Always use the gloves provided when re-fueling and when removing the ashpan.

Do not use or store any flammable liquids, substances or gases near the stove whilst it is in use as this could result in explosion or flash ignition.

When using the stove in situations where children, aged and/or infirm persons are present a fireguard must be used to prevent accidental contact with the stove.

This stove is suitable for intermittent operation.

The Skye E700D has been recommended as suitable for use in smoke control areas when burning wood logs. The Skye E700D has an automated control system that does not allow the air control to fully shut down until the fire has reached the charr stage where smoke is no longer produced.

#### **WOOD LOGS**

Only dry, well seasoned wood should be burnt on this appliance as burning wet unseasoned wood will give rise to heavy tar deposits in the stove, on the glass and within the chimney. For the same reason hard woods (such as Ash, Beech and Oak) are better than soft woods (such as Pine and Spruce). Burning wet unseasoned wood will also result in considerably reduced outputs. The wood should be cut and split and then left to season in a well ventilated dry place for at least one but preferably two years before use.

#### Recommended fuel load:

 $2 \times 250$ mm (10inch) long  $\times$  80mm (3inch) diameter logs

#### Max log length:

400mm (16in)

#### Log moisture content:

< 20% (ideally less than 17%)

This stove is not designed to burn household waste.

#### **DOOR OPERATION**

The door handle has been carefully designed to be cool to touch. However, if you need to open the door when the fire is running at maximum then the additional use of a glove may be required. Do not slam or strike the door.

Take care not to touch the door as it will be hot when the fire is burning. Pull the door handle to open, and push to close. For normal operation, the door must be closed. Operation with the door open can cause excess smoke.

DO NOT USE THIS STOVE IF THE DOOR GLASS IS BROKEN.

#### **GRATE**

Your Charnwood Skye E700D is fitted with a fixed grate to enable wood to be burned and ash to be removed with ease.

#### **LIGHTING**

Before lighting, ensure that the stove is connected to a power supply via the 9V AC/DC adapter which connects to the DC extension cable at the back of the stove. Ensure that the stove is in automatic mode (blue light) on air control. On initial lighting the stove may smoke and give off an odour as the silicon paint with which the firebox is painted reacts to the heat. This is normal and will cease after a short time, but meanwhile the room should be kept well ventilated.

At first only light a small fire and burn it slowly for two hours to allow any residual moisture in the chimney to evaporate.

First, start by placing two dry, well seasoned logs onto the grate. On top of this build a stack of 6-8 kindling sticks. This can be in grid or pyramid shape, be sure to leave a space between the pieces to allow the air to circulate around and through them. Ensure that the assembled wood does not protrude over the fuel retainer. Place a natural firelighter amongst the kindling near the top, light the firelighter and close the stove door. In Room Temperature or Automatic modes, the stove automatically ensures thorough lighting and then transitions to the burn rate set by the user on the app or the air control on the stove itself. The user can leave the stove unattended during lighting if this method is used. A stove can reasonably be



expected to make some ticking noises during heating and cooling cycles caused by metal expansion and contraction in the firebox. This is entirely normal and will not cause damage to the stove or adversely affect its performance. Do not build the fire too close to the glass.

#### **CONTROLLING THE FIRE**

There are two ways to control the fire - using the air control button on the stove (see Fig.1) or by using the app (see Fig.2) . The air control button on the stove allows the user access to step through the 5 intensity burn levels of the Automatic mode, the 5 preset temperatures in Room Temperature Mode and the 5 preset manual settings in Test Mode, whereas the App offers intermediate settings in Room Temperature or Test modes as well as oversight of performance data. The rate of burning and hence the output is controlled by the burn intensity (see Fig.1) or the mobile device app (see Fig.2)

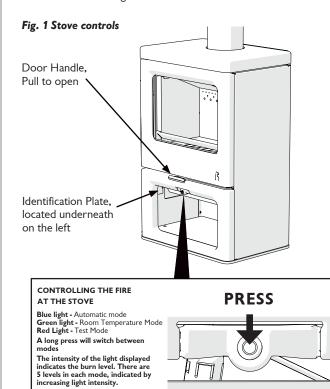
The stove has two main modes of control - Automatic and Room Temperature Mode. In Automatic Mode there are five intensity levels and the stove will give the most efficient and clean burn at each level over the refuelling cycle (intensity level 2 or 3 gives a pleasing fire for most users). In Room Temperature mode, the stove selects the most appropriate intensity level to achieve the set room temperature. Test Mode allows the user to vary the air control from fully closed to fully open like a manually controlled stove. Test Mode should be used when servicing the stove in order to verify the operation of the air controls. When operating in Test Mode the stove will revert back to Automatic Mode the next time the stove door is opened.

When running in Automatic Mode the air control will endeavour to burn the fuel loaded in the best way possible and so the output will vary depending on how much fuel is loaded. The typical burn cycle is Lighting, where the fuel is quickly lit and brought under control, Early Burn, where the burn is stabilised, before entering Steady State Efficient where a sustained clean burn at the user defined setting is achieved. Finally, in Char, the control system maintains a healthy firebed for as long as possible before refuelling occurs and the cycle restarts. The stage of the burn is graphically represented by the quadrant line on the inside of the thumb wheel on the control screen of the app and explicitly stated on the dashboard screen.

The stove mounted air control button is easily accessible and the first short press (< 1.5 secs) will illuminate the button in a colour denoting the current mode and at a brightness that represents the current intensity level out of the 5 different levels available (see table in Fig. 1). Subsequent short presses of the button, whilst it is illuminated, loop through the 5 levels in the current mode. A long press (>1.5

secs) loops through the 3 modes, at the lowest intensity level in the new mode. An extra long press (> 5 secs) allows selection of the two emergency modes, denoted by a flashing red light. A short press is used to choose either red flashing light (complete air shutdown in the event of a chimney fire) or green flashing light (nominal air setting allowing manual operation during a power cut). A long press then selects the chosen emergency mode and it is recommended that the power to the stove is turned off after approximately 30 seconds, when the air controls will have reached their appropriate setting, where they remain until normal operation is resumed by cycling the main power.

At other times, the light on the air control can show that the door



AUTOMATIC MODE	ROOM TEMP MODE	TEST MODE	
Blue light	Green Light	Red Light	
Intensity 1	16 °C / 61°F	Shut Down	
Intensity 2	20 °C / 68°F	25%	
Intensity 3 (default)	23 °C / 73°F	50%	
Intensity 4	26 °C / 79°F	75%	
Intensity 5	30 °C/ 86°F	100%	

A short press will index through the intensity levels



is open (flashing red), it is time for a reload (pulsing blue), a factory reset has been invoked by depressing the button before and during power up (flashing white light) or a mobile device is trying to pair with the stove (flashing blue light).

# CONTROLLING THE FIRE DURING A POWER CUT

If the power is cut, the air controls maintain their current position. In order to ensure that an adequate combustion can be achieved until power is restored, the DC adapter can be separated from the 9V AC/DC adapter at the intermediate jack connection (between the stove and the power outlet) and replaced with the 9V battery power supply (battery not supplied with stove). This will supply up to 30 minutes of operation, however it is recommended that it is used to put the stove into the power cut mode described above, where the air controls will adopt a position suited to a nominal 7kW burn. The battery power supply may then be removed and the stove used manually. To initiate good combustion after reloading with logs it may be necessary to crack the door open for a few minutes before closing it and running at nominal. (see page 18 / Fig.19)

#### CONTROLLING THE FIRE WITH THE APP

The stove can also be controlled by the Charnwood app, which gives more refined controls and feedback to the user. This can be downloaded from the Apple App or Google Play stores and more details about its functions can be found on the Charnwood website.

#### **CONNECTING THE DEVICE**

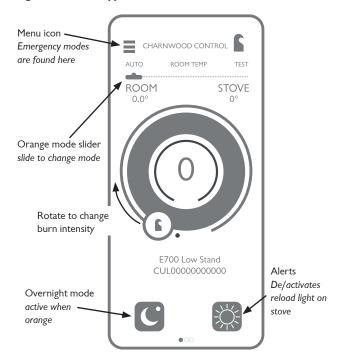
The device communicates with the stove via Bluetooth, so it is necessary to pair the stove with the device in order to use the app. A further option to connect the stove to your home WiFi router enables the graphing data to be viewed on the device and also gives the ability to update the stove firmware if Charnwood issue new programs through the website.

Up to three devices can be connected at any one time. Paired connections are stored on the stove but new connections will replace the oldest stored connections that are not currently in use (These devices will need to re-pair on connection).

Initial pairing is made by pressing 'Setup Stove'. Scan the QR code on the inner left side of the the stove store stand (torch icon helps to illuminate the code if required). Press OK after a successful QR scan. Rename the stove, select °C or °F and set the number of days that the stove performance data will be retained on the device. Press 'Next'. Near the stove, click 'Connect' and press stove button

when it flashes blue, then press 'Pair' on the pop-up window that appears on the device. Bluetooth icon should light blue; click 'Next' to complete the bluetooth pairing process. Please note that the stove requires a 2.4GHz network and will not work over a 5GHz

Fig.2 Charnwood App



network. If the WiFi capabilites are required, and have not already been set up on the stove, click 'Yes'. Firstly, connect the device to the same network that the stove will be connected to, then enter the Network Name and Router Password into the app, press 'Save' and then 'OK'. If successful connection is made to the router, the WiFi icon in the top right hand side of the screen will illuminate. Press 'close' and return to the Main Menu, where the 'Control Stove' button will allow the user to take control. The orange mode slider is used to change between the 3 Modes:

Auto Mode – User defines burn intensity (1-5) once good combustion has been established. The stove controls the air to maximise the efficiency and minimise the emissions and once it has ensured that the fuel is properly lit, it will burn at the rate defined by the user (1-5).

Room Temp Mode – User defines a set room temperature (61 – 90F/16 - 30C) that the stove tries to achieve once good combustion has been established.

The Overnight mode button is active when orange. In this mode, the stove will shut down to preserve char firebed for as long as possible, once the fire is no longer producing smoke. The stove returns to its



original mode when stove is reloaded.

If the Alerts button is activated, the light on the stove pulses blue when it is time to reload.

The stove title shows which stove the App is currently communicating with

The room temperature displayed in the top left of the screen is actually measured from the sensor attached to the DC extension cable behind the stove. The room temperature at the sensor may be a little different than the room at a distance from the stove, however the set temperature is made in relation to this temperature, which allows the user to make an informed choice. (see page 9/ Fig. 4)

The stove temperature displayed in the top right of the screen is the firebox temperature in the stove and indicates how hot it is running.

When the door is open, an icon appears at the bottom of the screen indicating that the door is open. The button on the stove will also flash red.

When the fire needs refuelling, a log icon flashes in between the overnight and alert buttons and this disappears upon refuelling.

The control screen (see Fig. 2) can be swiped left twice to reveal the dashboard and the graphing information, The menu icon at the top of the screen can be used to access the Emergency Modes and other app functions that are described on the Charnwood website.

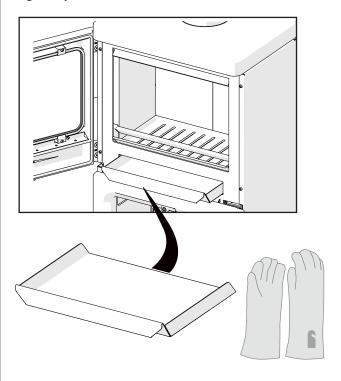
#### **REFUELLING**

Logs should be evenly distributed and are best placed from side to side, but not touching either side of the firebox or the glass in the door. Logs must not be loaded above the bottom row of holes in the back firebricks. The maximum amount of fuel specified in this manual should not be exceeded, overloading can cause excess smoke. It is best to refuel onto a hot bed of embers and the App will notify you when this is required. Automatic and Room Temperature Modes will keep a charr firebed active for as long as possible. In normal operation the stove door should be shut imediately after refueling and the stove will light the fuel. If there is insufficient burning material in the firebed to light a new fuel charge, excessive smoke emission can occur. Refuelling must be carried out onto a sufficient quantity of glowing embers so 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 excess smoke.

#### **ASH CLEARANCE**

Before removing ash ensure that it has cooled down, The ashpan is handled using the gloves provided (*Fig. 3*). When carrying the ashpan, it should be kept horizontal. Please avoid emptying hot ash into plastic liners or bins.

Fig. 3 Ashpan



The ashpan should be emptied regularly before it becomes too full.

NEVER ALLOW THE ASH TO ACCUMULATE IN THE ASHPAN

SO THAT IT COMES IN CONTACT WITH THE UNDERSIDE

OF THE GRATE AS THIS COULD SERIOUSLY DAMAGE THE

GRATE AND WILL EFFECT STOVE PERFORMANCE. Ashes
should be placed outside in a metal container with a tight fitting lid.
The closed container of ashes should be placed on a noncombustible
floor or on the ground, well away from all combustible materials,
pending final disposal. If the ashes are disposed of by burial in soil or
otherwise locally dispersed, they should be retained outside in the
closed container until all cinders have thoroughly cooled.

To make ash disposal easier there is a special ash container available - the Charnwood ash carrier. This may be purchased from your supplier or, in case of difficulty, from Charnwood.

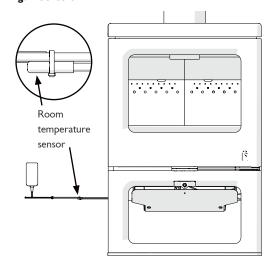
#### **REDUCED BURNING**

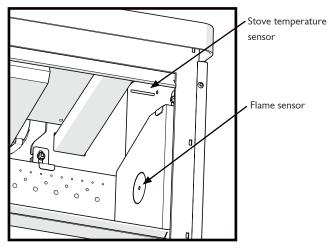
For reduced burning, the fire door must be closed. Automatic mode



should be selected and the burn rate set at level 1. In addition, the overnight button on the App should be active. This will ensure that once the fuel has thoroughly lit, it will burn steadily and slowly to reduce smoke emissions and then maximise the time for which the char firebed is active, before shutting down further to maintain an active firebed for as long as possible.

Fig. 4 Sensors





#### **MAINTENANCE**

#### Cleaning

The stove is finished with a high temperature paint which will withstand the temperatures encountered in normal use. This may be cleaned with a damp lint-free cloth when the stove is cold; do not clean the stove when it is hot. Should re-painting become necessary, high temperature paints are available from your supplier or from stove shops.

#### Cleaning the Glass

Most deposits on the glass will be burnt off simply by running the stove. If it becomes necessary to clean the glass then allow the stove to cool before opening the door: do not clean when hot. Clean the glass using a damp cloth and then wipe over with a dry cloth. Any stubborn deposits on the glass may be removed with a proprietary stove glass cleaner or ceramic hob cleaner. Do not use abrasive cleaners or pads as these can scratch the surface which will weaken the glass and cause premature failure.

#### When Not in Use

If the fire is going to be out of use for a long period (for instance in the summer) then to prevent condensation, and hence corrosion, open the door, then turn off the power and turn it back on again, wait 30 seconds whilst the motors move, then turn off the power. The fire door should be left ajar. It is also advisable to sweep the chimney and clean out the fire. After long periods where the fire has been out of use, the chimney and appliance flueways should be cleaned before lighting.

#### **Door Seals**

For the fire to operate correctly it is important that the door seals are in good condition. Check that they do not become worn or frayed and replace them when necessary.

#### Servicing

It is recommended that the fire is serviced once a year to keep it in first class working order. After cleaning out the firebox thoroughly, check that all internal parts are in good working order, replacing any parts that are beginning to show signs of wear. The following simple checks verify that the electronic control system is working. With the app connected, check that the room temperature changes when you hold the chrome sensor attached to the DC extension cable behind the stove (see Fig. 4). If the throat plate bricks are removed (see Fig 4), the stove temperature sensor can be seen protruding 50mm inside the firebox on the right hand side. The stove temperature displayed on the device should change when the sensor is held for a minute. With the app on the Dashboard screen, shine the light of a torch, halogen if possible, directly into the flame sensor, in the glass lens at the centre of the circular firebrick on the right hand side of the inside of the firebox; over a period of a minute, the flame intensity indicator should increase. Finally, switch the stove off and back on again, listening for the hum of the motors calibrating and verifying that no error message appears in the app. Check that the door seals are in good condition and that the door seals correctly. A servicing guide is available on request. If glass replacement is required, it should



be fitted in accordance with TIS. 145. Repairs or modifications may only be carried out by the Manufacturer or their approved agents.

USE ONLY GENUINE CHARNWOOD REPLACEMENT PARTS, DO NOT USE SUBSTITUTE MATERIALS.

# CREOSOTE FORMATION AND NEED FOR REMOVAL

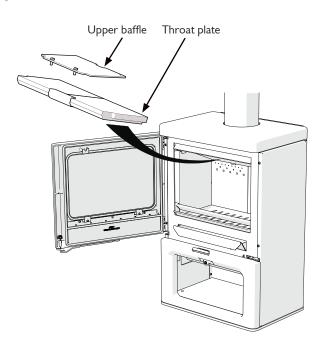
When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited this creosote makes an extremely hot fire.

The chimney connector and chimney should be inspected at least once every two months during the heating season to determine if a creosote build up has occurred.

If creosote has accumulated (3mm, (1/8in.) or more) it should be removed to reduce the risk of a chimney fire.

Establish a routine for the fuel, wood burner and firing technique. Check daily for creosote build-up until experience shows how often you need to clean to be safe. Be aware that the hotter the fire the less creosote is deposited, and weekly cleaning may be necessary

Fig. 5. Throat Plate Location



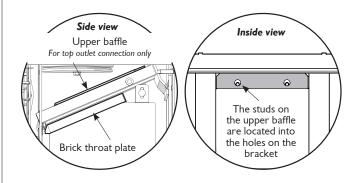
in mild weather even though monthly cleaning may be enough in the coldest months. Contact your local municipal or provincial fire authority for information on how to handle a chimney fire. Have a clearly understood plan to handle a chimney fire - see Emergency Modes description (page 12).

#### THROAT PLATE AND FLUEWAY CLEANING

It is important that the throat plate and all the stove flueways are kept clean in order to prevent potentially dangerous fume emission. They should be cleaned at least monthly, and more frequently if necessary. It is necessary to let the fire burn out and for the stove to be cold to carry out these operations.

The throat plate is made up of two bricks and a bracket that slides over the front and holds the two bricks together (Fig. 5).

Fig. 6. Throat Plate Location



To remove the throat plate, first carefully remove the joining bracket at the front of the throat plate and then lift the two pieces down from the top of the stove. Sweep any sooty deposits from the top of the throat plate into the fire.

Lift up the upper baffle plate so the studs clear the holes at the front, slide to the left or the right and tilt down (See Fig. 6). Clean any deposits. If the rear flue connection is used then the upper baffle is not required.

The upper baffle plate is positioned on top of the air wash tubes and is located with studs in the two holes on the bracket attached to the air wash manifold. To re-fit the throat plate, fit each half so that it rests on the side and back brick, then, making sure the two halves are fitted closely together, slide the joining clip back onto the front edge, making sure that it is central on the join.



#### **CHIMNEY SWEEPING**

Where the chimney previously served as an open fire, it is possible that the higher flue gas temperature from a stove may loosen soot deposits with the consequent risk of flue blockage. It is therefore recommended that the chimney be swept a second time within a month of regular use after installation.

The chimney should be swept at least twice a year. Where the top outlet or vertical rear flue connector is used it will generally be possible to sweep the chimney through the appliance. Be careful not to damage the stove temperature sensor that protrudes 50mm into the right hand side of the firebox above the brick throat plate, when sweeping the chimney.

First remove the fuel retainer, throat plate and upper baffle. Then sweep the chimney ensuring that soot is removed from all horizontal surfaces after sweeping.

In situations where it is not possible to sweep through the appliance the installer will have provided alternative means, such as a soot door. After sweeping the chimney the appliance flue outlet and the flue pipe connecting the stove to the chimney must be cleaned with a flue brush.

After clearing any soot from within the stove, replace the upper baffle and throat plate (see Fig. 5/6) and the fuel retainer.

Different types of sweep's brushes are available to suit different flueways. For prefabricated insulated chimneys the manufacturers instructions with regard to sweeping should be consulted.

#### TROUBLE SHOOTING

#### Fire Will Not Burn

Check that:

- a) the air inlet is not obstructed in any way,
- b) chimneys and flueways are clear,
- c) a suitable fuel is being used,
- d) there is an adequate air supply into the room,
- e) an extractor fan is not fitted in the same room as the stove.
- f) there is sufficient draw in the chimney. Once the chimney is warm a draught reading of at least 1.25 mm (0.05 in.) water gauge (12Pa) should be obtained.

- g) The power to the stove control unit is turned on and plugged in. Check that the App can connect and receive stove and room temperatures, indicating that the control unit has power. Check that no error messages have been received by the app.
- h) The flame sensor is clean.

#### **Blackening of Door Glass**

Differences in chimney draughts mean that the best settings of the air controls will vary for different installations. A certain amount of experimentation may be required, however the following points should be noted and with a little care should enable the glass to be kept clean in most situations:

- a) Wet or unseasoned wood, logs overhanging the front fence or wood that is not positioned side to side will cause the glass to blacken.
- b) The airwash relies on a supply of heated air to keep the glass clean, therefore, when lighting the stove, provide sufficient kindling wood to adequately light the logs.
- c) When re-fuelling keep the fuel as far back from the front fence as possible, do not try to fit too much fuel into the firebox. Do not stack wood above the level of the tertiary air holes in the back firebox bricks.
- d) Do not completely close the air control (dial at 0) if burning in Test mode.

It is always more difficult to keep the glass clean when running the stove very slowly for long periods.

If blackening of the glass still occurs check that all flue connections and blanking plate are well sealed. It is also important that the chimney draw is sufficient and that it is not affected by down-draught. When the chimney is warm a draught reading of at least 1.25 mm (0.05 in.) water gauge (12Pa) should be obtained.

#### **Fume Emission**

#### Warning Note:

If properly installed and operated this appliance will not emit fumes. Occasional fumes from de-ashing and re-fuelling may occur. Persistent fume emission is potentially dangerous and must not be tolerated. If fume emission does persist, then the following immediate actions should be taken:

- a) Open doors and windows to ventilate the room and then leave the premises.
- b) Let the fire out and safely dispose of the fuel from the appliance.



- c) Check for flue or chimney blockage, and clean if required.
- d) Do not attempt to re-light the fire until cause of fuming has been identified, if necessary seek professional advice.

The most common cause of fume emission is flueway or chimney blockage. For your own safety these must be kept clean.

#### Fire blazing out of control

Check that:

- a) The door is tightly closed.
- b) The control unit is working by putting it into Test mode and adjusting the burn level to 0.
- c) A suitable fuel is being used.
- d) Door seals are intact.
- e) The control unit is plugged in, turned on and that the device is connected and there are no error messages displayed.

#### **Chimney Fires**

If the chimney is thoroughly and regularly swept, chimney fires should not occur. However, if a chimney fire does occur close the stove door, then press and hold the air control button until a flashing red light appears. Release the air control button and press again until the light goes out and the motors close all the air controls. Disconnect the power supply to the stove. Leave the stove until the fire has gone out. The chimney and flueways should then be cleaned. If the chimney fire does not go out when the above action is taken then the fire brigade should be called immediately. After a chimney fire the chimney should be carefully examined for any damage. Expert advice should be sought if necessary.

#### **CO ALARM**

Your installer should have fitted a CO alarm in the same room as the appliance. If the alarm sounds unexpectedly, follow the instructions given under "Warning Note" (page 11).

#### IF YOU NEED FURTHER HELP

If you need further help with your Charnwood then your Installer will be able to provide the answers to most questions. Your Local Charnwood Premier Dealer has a great deal of experience and will also be able to provide helpful advice. Further help is available from the Charnwood Customer Services department who will be pleased to give advice, if necessary.

DO NOT CONNECT TO OR USE IN CONJUNCTION WITH ANY AIR DISTRIBUTION DUCTWORK UNLESS SPECIFICALLY APPROVED FOR SUCH INSTALLATIONS



#### **UNPACKING THE STOVE**

The stove arrives bolted and strapped to a pallet. There must be adequate facilities for unloading and manoeuvring into position. The wrapping is first removed, then the stove released from the pallet by removing the 4 wood screws. The pallet brackets can now be removed from the stove by tilting it and using a 13mm spanner to remove the bolts. The pallet is intended to be cut up and used for kindling fuel. Replace the bolts to be used for levelling the stove. The stove is a very heavy appliance, take care when handling.

#### **HEALTH AND SAFETY PRECAUTIONS**

The stove should be installed in compliance with local and national standards.

Please take care when installing the stove that all local and national standards and the requirements of health and safety at work are met.

Some types of fire cement are caustic and should not be allowed to come into contact with the skin. In case of contact wash with plenty of water.

If there is a possibility of disturbing any asbestos in the course of installation then please use appropriate protective equipment.

If room air is used for combustion, then there should not be an extractor fan fitted in the same room as the stove as this can cause the appliance to emit fumes into the room.

There must be an adequate air supply into the room in which the appliance is installed to provide combustion air. The combustion air supply must be via a permanently open vent. The requirement for minimum free area is partly dependent on the design and air permeability of the house. In older properties the air permeability will be above  $5.0 \, \text{m}^3/(\text{h.m}^2)$ , but in some modern properties it may be less. The vent must be positioned such that it is not liable to blockage. Minimium areas are given in the following table:

AIR PERMEABILITY	MINIMUM VENT AREA cm²(in²)		
m³/(h.m²)	Skye E700D Australia		
>5.0	11 (1.76)		
<5.0	38.5 (6.0)		

Alternatively a fixed ducted air supply method can be used. One end of the air supply ducting is connected to the stove and the other

is terminated outside. The ducting must be a minimum 80mm dia, non-combustible, less than 5.5m long and must not have more than five 90° bends and two 45° elbows. It must be sleeved where it passes through the external wall. The inlet must be permanently open and the duct free of any constrictions. The inlet must have a suitable grill to prevent entry by vermin, and should be positioned so that blockage by leaves or other debris will be avoided. Ensure that rain or flood water will not enter the duct. A spillage test must be carried out during commissioning to verify adequate air supply for combustion.

External air supply kits are available, please contact Charnwood for more information.

This stove is capable of intermittent operation, and is not suitable for use in a shared flue system.

#### **SPECIFICATION**

SPECIFICATION	Skye E700D Australia		
Fuel	Wood logs		
Maximum average heat output burning hardwood:	5kW		
Overall average efficiency burning hardwood:	<b>69</b> %		
Particulate emissions factor:	0.5g/kg		

#### **CO AND SMOKE ALARMS**

It is recommended that a carbon monoxide alarm is installed in the same room as the appliance, in accordance with the alarm manufacturer's instructions. Provision of an alarm must not be considered a substitute for either installing the appliance correctly or ensuring regular servicing and maintenance of the appliance and chimney system.

#### **FLUE**

In order for the appliance to perform satisfactorily the flue must give sufficient draw when warm (minimum of 12pa/0.05" wg). The height of the flue must comply with local building regulation requirements. The internal diameter of the chimney **MUST NOT BE LESS THAN 150mm (6").** 

The listed flue's construction and installation must comply with



the requirements of AS/NZS2918:2018 and must also meet local building codes. The flue must be suitable for burning solid fuel, lined in good condition and at least 4.6m in height from the base of the appliance. The flue and all its component's must be installed according to the manufacturer's instructions. The flue exit requirements of AS/NZS2918:2018 are 1000mm above the roof and 600mm above any projection within 3000mm, see flue clearances diagram (page 26). This stove is not suitable for use in a shared flue system.

It is important that there is sufficient draw in the flue and that the flue does not suffer from down-draught. When the flue is warm the draw should be not less than 1.25mm (0.05") water gauge (12 Pa). If in doubt about the chimney seek expert advice.

#### **HEARTH AND FIRE SURROUND**

The stove must stand on a fireproof hearth and must not be situated closer than the minimum distance from combustible materials to the sides or rear above hearth level unless adequately fireproofed in accordance with local building regulations. If installed on a combustible floor, floor protection must be provided in the form of a non-combustible material to the minimum specifications described in the 'Clearances' section - pages 19 - 21.

If in doubt as to the positioning of the stove, expert advice should be sought either from the supplier or the local building inspector. The fireplace must allow good circulation of air around the appliance to ensure that maximum heat is transferred to the room and also to prevent the fireplace from overheating. A gap of 150mm (6") each side and 300mm (12") above the appliance should give sufficient air circulation. If a wooden mantelpiece or beam is used in the fireplace it should be a minimum of 460mm (18"), and preferably 600mm (24") from the appliance. In some situations it may be necessary to shield the beam or mantelpiece to protect it.

In order for the fire to operate correctly the rear air inlet must not be obstructed.

The appliance should be installed on a floor with adequate load-bearing capacity. If an existing construction does not meet this requirement then please take suitable measures to achieve this. (e.g. load distributing plate.) The stove must stand on a fireproof hearth and must not be situated closer than the minimum distance from combustible materials to the front, sides or rear above hearth level unless adequately fireproofed in accordance with local building regulations - see pages 19 - 21.

If in doubt as to the positioning of the stove, expert advice should be

sought either from the supplier or the local building inspector.

In order for the fire to operate correctly and to allow for access, there must be an air gap behind the appliance of at least 50mm, but be aware that this distance will need to be greater in some cases to meet Building Regulation requirements.

#### **CONNECTIONS TO FLUES**

The stove must be connected to the flue using flue pipe of the following size:

150mm (6") diameter - Skye E700D

This may be stainless steel, cast iron, or thick wall steel pipe. Straight lengths of Charnwood Pipe to match the stove are available if required. If using twin wall flue, the flue spigot must be shielded to protect exposed combustible material. This can be done with a shielded starter length of flue.

There are several ways of connecting the stove to the flue. These are illustrated in Figs. 7 to 10.

If the top flue connection or optional vertical rear flue connector is used then the chimney may be swept through the appliance.

A spacer (part 54 page 23/ part 52, page 24) is required to attach the optional vertical rear flue connector to the Skye E700D.

Horizontal lengths of flue must be kept to a minimum and should not be more in length than the flue diameter.

The stove comes with the blanking plate (fig. 11) fitted to the rear flue outlet. The seal for the rear outlet is a length of adhesive backed fibre webbing supplied with instructions (ref: **TISO93**). This is applied to the flue collar or the Vertical Rear Flue adapter for rear outlet installations. The top outlet connection is made directly into the stove top, the Skye is supplied with a flue collar for rear outlet installations. To seal the top flue outlet see fig. 12. **All flue connections must be well sealed.** 

#### **SOOT DOORS**

It is possible to pass a 6 inch diameter sweeps brush through the appliance but in most rear outlet installations it will be necessary to have a soot door to enable the chimney to be swept. The optional vertical rear flue connector does allow the chimney to be swept through the stove. Soot doors may either be in the actual brickwork of the chimney or in the register plate. Various positions of soot



doors are shown in Figs. 7 to 10.

#### **PRE LIGHTING CHECK**

Ensure that upper baffle plate (top flue outlet connection only) and the throat plate are fitted in the roof of the appliance. The location and positioning of the throat plate and baffle is shown in Fig. 5 and 6.

Check that the fuel retainer is fitted correctly and that the door closes properly.

#### **COMMISSIONING**

On completion of the installation allow a suitable period of time for the fire cement and mortar to dry out before lighting the fire. Check

Fig.7. Vertical register plate with bricked up fireplace

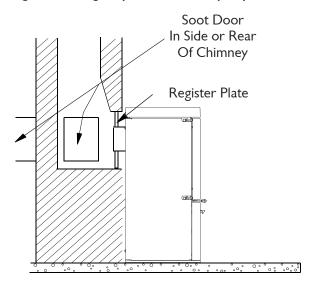


Fig.8. Horizontal register plate with rear flue connection

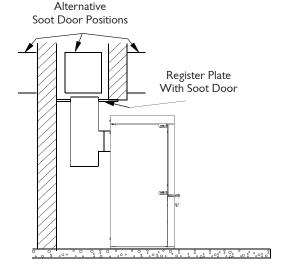


Fig. 9. Horizontal register plate with top flue connection

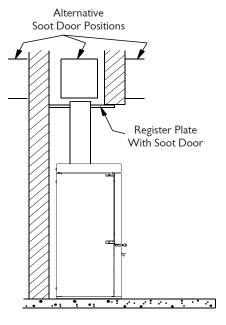
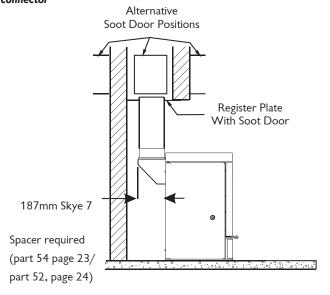


Fig. 10. Horizontal register plate with optional vertical rear flue connector



to ensure that smoke and fumes are taken from the appliance up the chimney and emitted safely. Also check all joints and seals. On completion of the installation and commissioning please leave the operating instructions with the customer and advise them on the use of the appliance.

Flue draught can be checked by removing the bolt underneath the front left hand side (Fig. 14). Make sure bolt is replaced after test.



#### FITTING THE REAR HEAT SHIELD

The Skye E700D is supplied with a rear heat shield. The rear heat shield must be fitted when installing the stove with a top outlet flue in front of combustible materials. To fit the rear heat shield, loosen the button head allen screws and slide the heat shield on so that the slots on the back of the heat shield fit over the screws. Tighten the screws once in place. (fig. 13)

Fig. 11. Rear Flue Blanking Plate

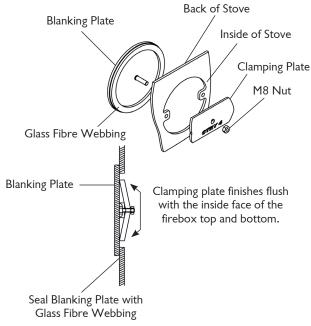


Fig. 12. Top Flue Blanking Plate

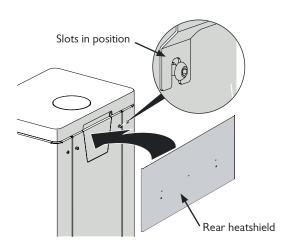
Make sure 2 x flue bolt holes are sealed when fitting the top flue blanking plate

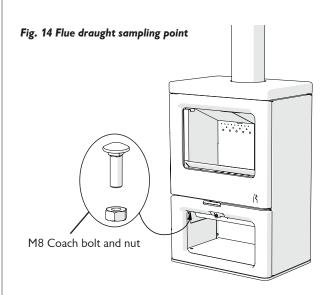
Stove top

Lower blanking plate retainer with glass fibre webbing

M8 nut and washer

Fig. 13. Fitting the rear heat shield







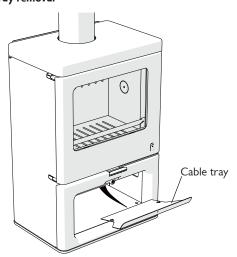
#### **AIR CONTROL CONNECTIONS**

On installing the stove, the 9V AC/DC power supply will need to be connected to the DC power extension lead at the back of the stove and then plugged into a power source.

The power supply and extension lead should be routed to the power outlet at the same height or lower than the point at which it exits the appliance, preferably going straight back, away from the appliance, until outside the safe distance to combustible materials. Care should be taken that there is no risk of damage by hot ash or any other hazards. Local and national building standards must be respected regarding any electrical installations.

Other air control connections will already be made and should not be accessed unless there is a problem. To gain access to the air control connections: loosen the cable tray fixing bolts, slide forwards and remove.

Fig. 15 Cable tray removal



Power supply

Fig. 17 Power and sensor plugs

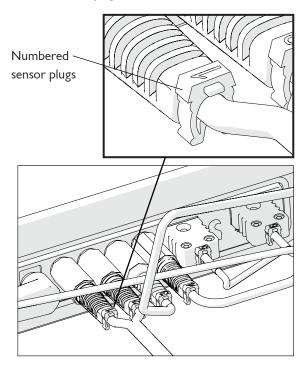


Fig. 18 Socket interface

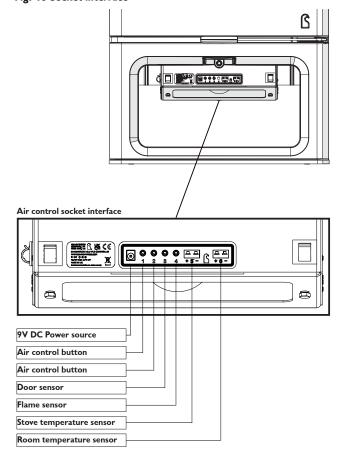
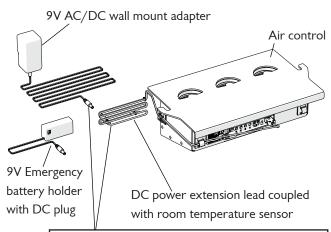




Fig. 19 Power connections



In normal operation the 9V AC/DC wall mount adapter should be connected to the DC power extension lead supplying power to the Air control.

# ELECTRONIC COMPONENT END OF LIFE CONSIDERATIONS.

#### **UK & Europe**

The Waste Electrical and Electronic Equipment (WEEE) Regulations 2013/2015 (update), Section 7b, states that the regulations do not apply if the electronics are 'specifically designed and installed as part of another type of equipment that is excluded from, or does not fall within the scope of this directive, which can fulfill its function only if it is part of that equipment'.

UK Gov Guidance 'Electrical and electronic equipment (EEE) covered by the WEEE Regulations', updated 18 January 2021, states: Exempt products are: "a piece of equipment that's designed for and installed in another type of equipment ", "Where electrical energy is only used for support or control functions, the equipment is not covered by the regulations. Equipment that only needs a spark to start it (electronic ignition) and does not need electricity to fulfill its basic function includes: petrol lawn mowers, gas stoves".

The electronic control system on the Skye E700 stove is considered exempt from these regulations on this basis.

#### Canada

The Canadian Government website provides an inventory of recycling programs across Canada and it is recommended that this

resource is used to responsibly recycle the electronic components of the Skye E700 when they reach the end of their life. A description of how to remove all the electrical components from the body of the stove, can be found below.

#### USA

The EPA website provides links to other sites that summarise the state specific legislation concerning electronic waste and also the recycling programs that are able to process the waste. It is recommended that these resources are used to responsibly recycle the electronic components of the Skye E700 when they reach the end of their life. A description of how to remove all the electrical components from the body of the stove, can be found below.

#### Australia

The ANZRP website is an example of the provision of a safe and responsible collection of e-waste. It is recommended that this kind of resource is used to responsibly recycle the electronic components of the Skye E700 when they reach the end of their life. A description of how to remove all the electrical components from the body of the stove, can be found below.

#### **Electronic Component Removal**

The air control assembly containing most of the electronics is easily removed, by removing the cable tray, unplugging the seven cables from the front, then loosening the bolts on either side of the assembly, before sliding it forwards and lowering it away from the stove.

The cover can then be removed by removing the four nuts holding it on and lifting it up, rear first. The front fascia can be unclipped from the board and the three daughter boards can be unplugged from the mother board, then the mother board can be carefully prised away from its mount at each corner and the daughter boards can be removed from the air control disks.

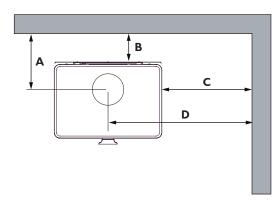
The remaining electronics on the stove consist of the button, which can be removed from the stove in its plastic moulding via the two nuts on the reverse of the lower front casting, the door switch, accessed by removing the lower casting and the room and stove temperature sensors and flame sensor, which can be accessed by removing the right hand panel of the stove.

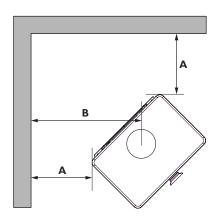


#### **PARALLEL POSITION**

#### **CORNER POSITION**

#### **COMBUSTIBLE WALLS**





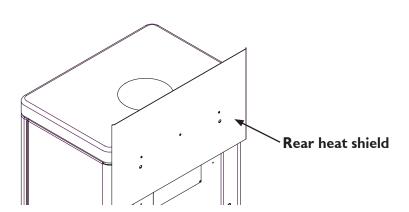
## **SKYE E700D AUSTRALIA LOW/STORE STAND**

#### **Standard Clearance**

- A 295mm
- B 150mm (with rear heat shield fitted)
- C 475mm
- D 759mm

#### **Corner Clearance**

- A 200mm
- B 482mm



**Note:** The safe distance to combustible figures quoted above were achieved using a **Room Seal Flue Kit**.

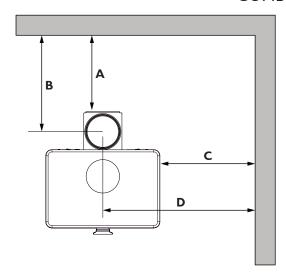
# CLEARANCES WITH REAR FLUE ADAPTOR

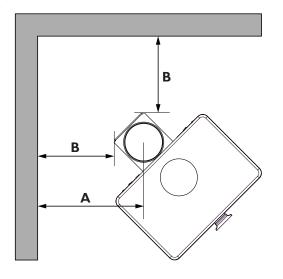


#### **PARALLEL POSITION**

#### **CORNER POSITION**

#### **COMBUSTIBLE WALLS**





# SKYE E700D AUSTRALIA LOW/STORE STAND

#### **Standard Clearance**

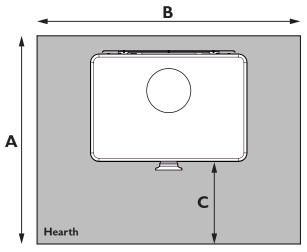
- A 456mm
- B 555mm
- C 475mm
- D 759mm

#### **Corner Clearance**

- 4 588mm
- B 456mm

# STANDARD HEARTH DIMENSIONS





Stove positioned centrally

## SKYE E700D AUSTRALIA LOW/ STORE STAND

MIN. DIMENSIONS DEFAULT HEARTH

A 880mm

B 850mm

C 480mm

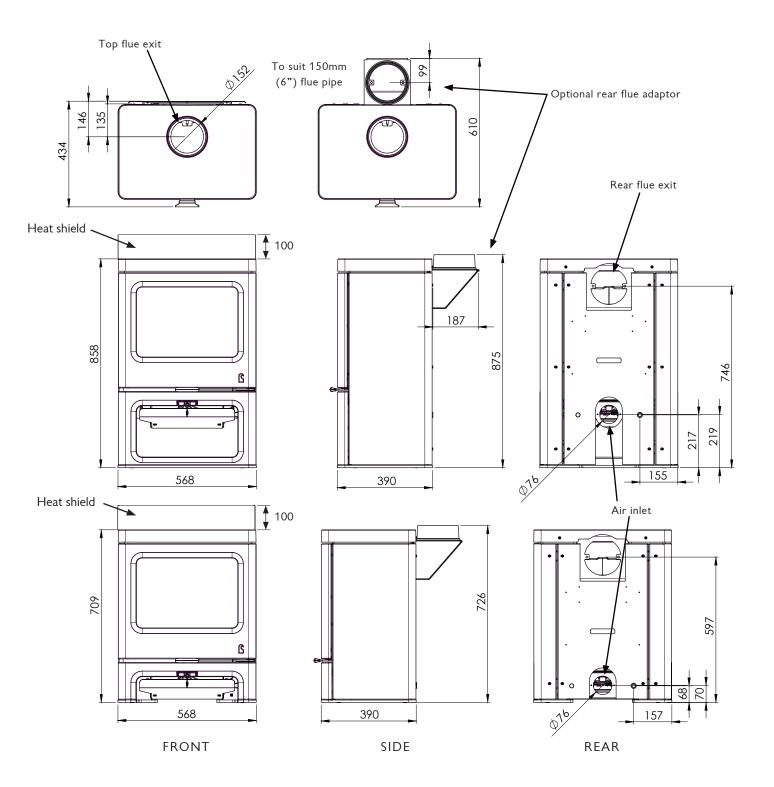
Hearth thickness = 18mm

#### NON-COMBUSTIBLE HEARTH MATERIAL

Minimum thermal resistivity:  $0.078m^2K/W$  FOR 18mm thick compressed board sheets. Installed in accordance with AS/NZS 2918:2018 3.3.2

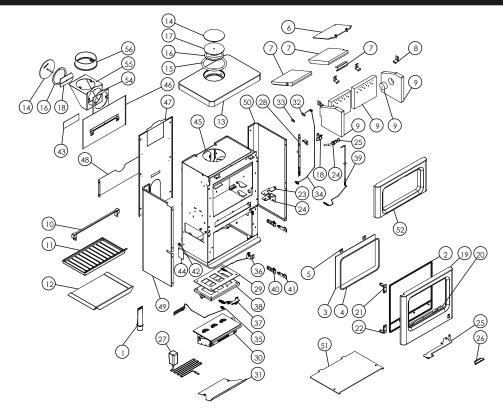
# SKYE E700 DIMENSIONS





## Charnwood Skye E700d Store Stand Aus Parts List

#### Issue A

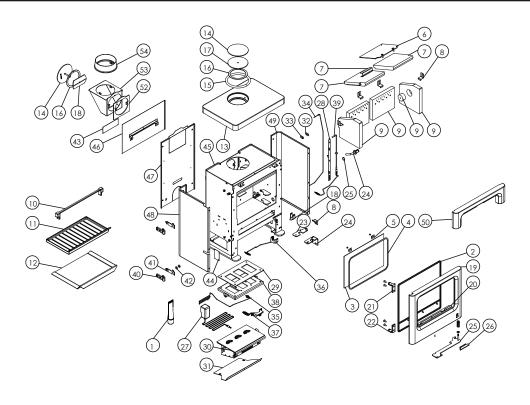


Item	Part No.	Description	Item	Part No.	Description
1	008/TH085	Door Seal Adhesive	29	008/CU109	Air Control Gasket
2	008/AU035S	Rope Door Seal Inc Adhesive	30	010/CU135	Air Control Assembly
3	006/AU018	Glass	31	004/CU042	Cable Tray
4	008/EW45	Glass Seal	32	004/NH700	Thermocouple Retainer
5	004/KV23	Glass Retainer	33	004/NH701	Thermocouple Retainer Spacer
6	010/DU032	Upper Throat Plate	34	008/CU260	Firebox Thermocouple Assembly
7	011/AU031S	Set of Throat Plate Bricks Inc. Bracket	35	008/CU261	Room Thermocouple Assembly
8	004/XV30	Brick Bracket	36	010/CU066	Switch and Bracket Assembly
9	011/DU029S	Set of Firebricks	37	010/CU250	Manual Control Button Assembly
10	002/DU008	Deepening Bar	38	010/CU230	Upper Airbox
11	002/DU022	Grate	39	010/CU160	Glass Rod Assembly
12	004/DU017	Ashpan	40	002/BU040	Door Hinge Bracket
13#	003/CU006	Cast Top	41	004/BU039	Door Hinge Shim
14	010/KZ132	Blanking Plate	42	010/DY24	Spacer
15	008/KZ136	Flue Fixing Rope Seal	43	012/DUA180	Compliance Label
16	008/KS134	Blanking Plate Seal	44	012/DUA011	Serial No. Label
17	010/KZ133	Blanking Plate Retainer	46#	005/DUA081	Rear Heatshield
18	010/AY51	Clamping Plate	47#	005/AU080	Rear Panel
19#	003/CU001A	Door Assembly	48#	005/AU059	Rear Lower Panel
20	004/AU050	Rope Seal Channel	49#	005/AU093L	Left Side Panel
21	002/BU041	Upper Hinge	50#	005/DU093R	Right Side Panel
22	002/BU042	Lower Hinge	51#	010/AU058	Base Plate
23	010/CU063	Door Latch	52#	003/CU072	Front Casting
24	010/CU064	Door Latch Bracket	53*	010/EW51	Ash Carrier (Optional Extra)
25	010/CU060	Door Catch Arm	54	010/AU021	Vertical Rear Flue Adapter Spacer
26	008/BU049	Door Handle	55#	010/TW33	Vertical Rear Flue Adapter (Opt'l Extra)
27	008/EL307	9V Power Supply	56#	002/XS14	Flue Collar
28	004/CU161	Light Optic Guard	57*	008/EL308	DC Power Extension Lead

 $<sup>\</sup>ensuremath{^{*}}\textsc{These}$  items are not shown on the drawing.

## Charnwood Skye E700d Low Stand Aus Parts List

#### Issue A



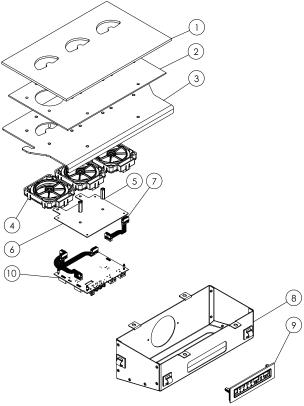
Item	Part No.	Description	Item	Part No.	Description
1	008/TH085	Door Seal Adhesive	28	004/CU161	Light Optic Guard
2	008/AU035S	Door Seal Inc Adhesive	29	008/CU109	Air Control Gasket
3	006/AU018	Glass	30	010/CU135	Air Control Assembly
4	008/EW45	Glass Seal	31	004/CU042	Cable Tray
5	004/KV23	Glass Retainer	32	004/NH700	Thermocouple Retainer
6	010/DU032	Upper Throat Plate	33	004/NH701	Thermocouple Retainer Spacer
7	011/AU031S	Set of Throat Plate Bricks Inc. Bracket	34	008/CU260	Firebox Thermocouple Assembly
8	004/XV30	Brick Bracket	35	008/CU261	Room Thermocouple Assembly
9	011/DU029S	Set of Firebricks	36	010/CU066	Switch and Bracket Assembly
10	002/DU008	Deepening Bar	37	010/CU250	Manual Control Button Assembly
11	002/DU022	Grate	38	010/CU230	Upper Airbox
12	004/DU017	Ashpan	39	010/CU160	Glass Rod Assembly
13#	003/CU006	Cast Top	40	002/BU040	Door Hinge Bracket
14	010/KZ132	Blanking Plate	41	004/BU039	Door Hinge Shim
15	008/KZ136	Flue Fixing Rope Seal	42	010/DY24	Spacer
16	008/KS134	Blanking Plate Seal	43	012/DUA180	Compliance Label
17	010/KZ133	Blanking Plate Retainer	44	012/DULA011	Serial No. Label
18	010/AY51	Clamping Plate	46#	005/DUA081	Rear Heatshield
19#	003/CU001A	Door Assembly	47#	005/AUL080	Rear Panel
20	004/AU050	Rope Seal Channel	48#	005/AUL093L	Left Side Panel
21	002/BU041	Upper Hinge	49#	005/AUL093R	Right Side Panel
22	002/BU042	Lower Hinge	50#	003/AUL072	Front Casting
23	010/CU063	Door Latch	51*	010/EW51	Ash Carrier (Optional Extra)
24	010/CU064	Door Latch Bracket	52	010/AU021	Vertical Rear Flue Adapter Spacer
25	010/CU060	Door Catch Arm	53#	010/TW33	Vertical Rear Flue Adapter (Opt'l Extra)
26	008/BU049	Door Handle	54#	002/XS14	Flue Collar
27	008/EL307	9V Power Supply	55*	008/EL308	DC Power Extension Lead

 $<sup>\</sup>ensuremath{^{*}}\textsc{These}$  items are not shown on the drawing.

 $<sup>\</sup>ensuremath{\text{\#}}$  Please specify colour when ordering.

## Charnwood Skye E700 Air Box Assembly Parts List

#### Issue A



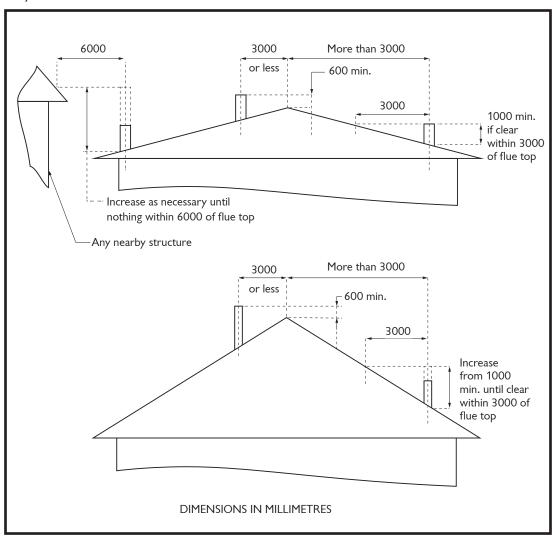
Item	Part No.	Description			
1	008/CU110	Air Control Gasket	6	008/CU235	Circuit Board Mount
2	008/CU242	Airbox Cover Gasket	7	008/EL325	Ribbon Cable Connector
3	010/CU231	Lower Plate Assembly	8	010/CU040	Airbox Cover
4	008/NH580	Disk Assembly	9	008/CU239	Socket Surround With Gasket
5	008/FFM087	Hex Spacer M5x25	10	008/NH590	Motherboard

 $<sup>\</sup>ensuremath{^{*}}\xspace$  These items are not shown on the drawing.



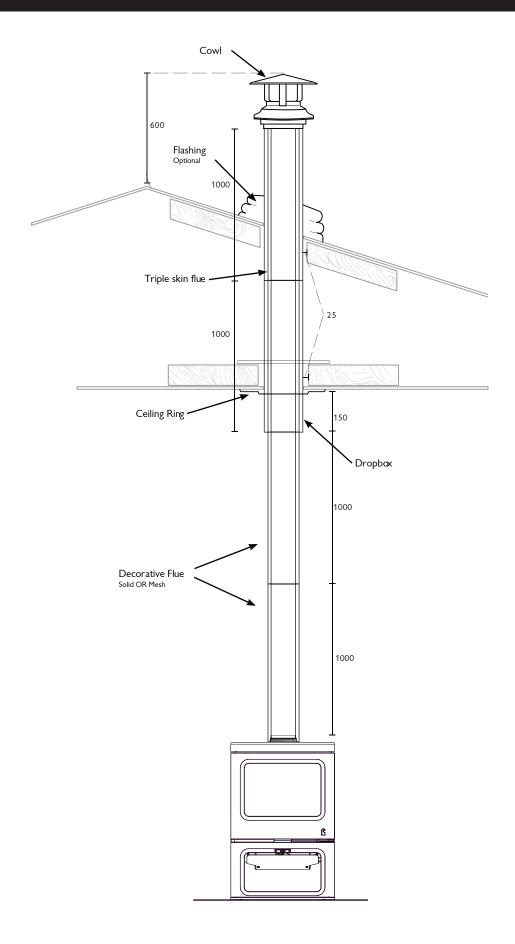


Summary of minimum height of flue sytem exit requirements from AS/NZS 2918:2018



# STANDARD DEFAULT TRIPLE SKIN FLUE KIT

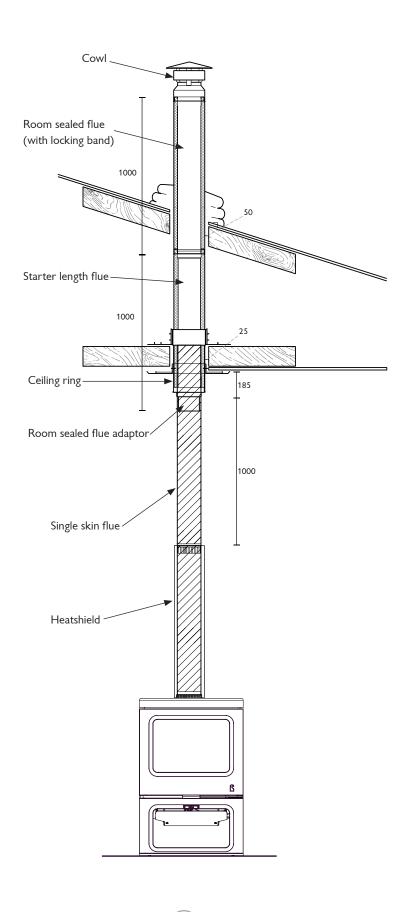




# INSULATED ROOM SEAL FLUE KIT



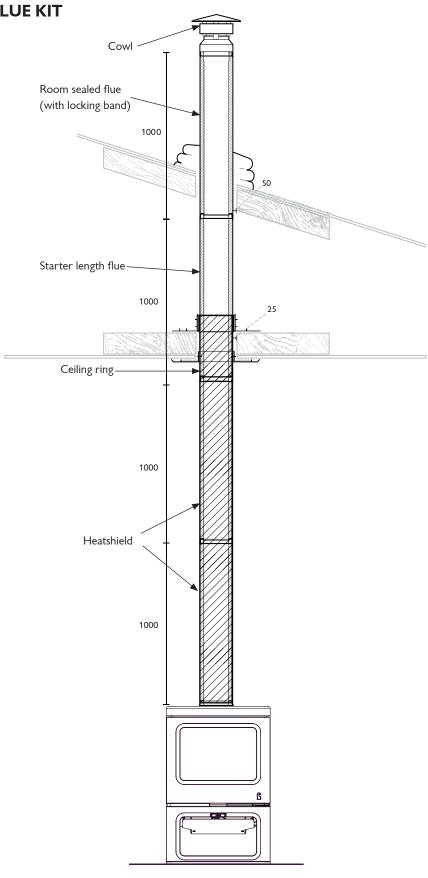
#### **STANDARD FLUE KIT**



# INSULATED ROOM SEAL FLUE KIT

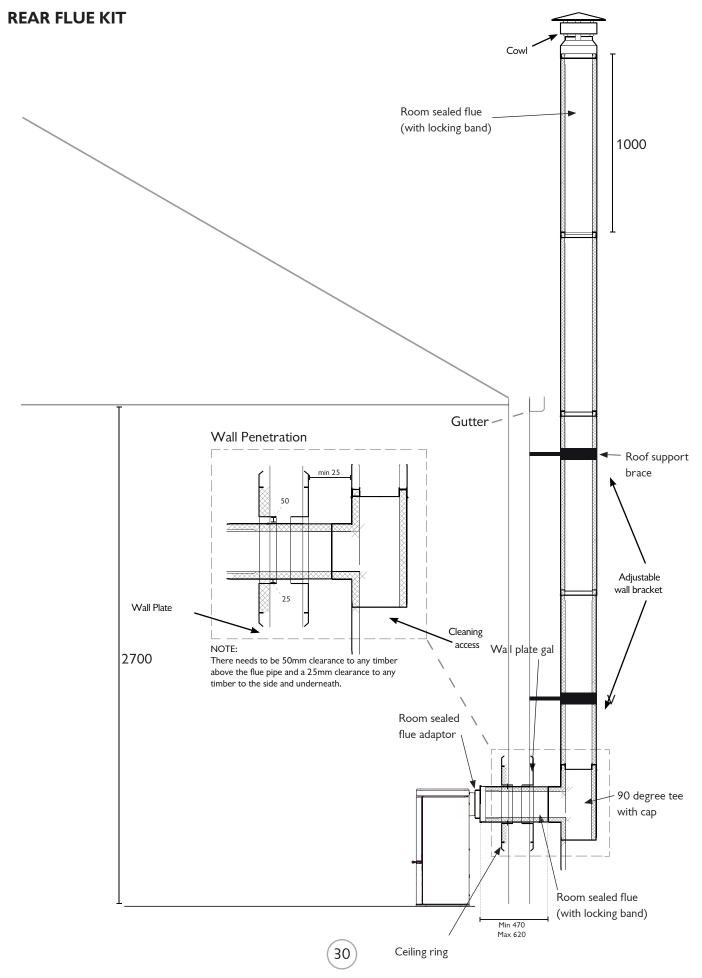


#### **FULLY SEALED FLUE KIT**



# INSULATED ROOM SEAL FLUE KIT





# **COMPLIANCE DATA**



#### SKYE E700D AUSTRALIA COMPLIANCE DATA



NEWPORT, IW PO30 5WS, UK

WWW.CHARNWOOD.COM

#### **DISTRIBUTED BY:**

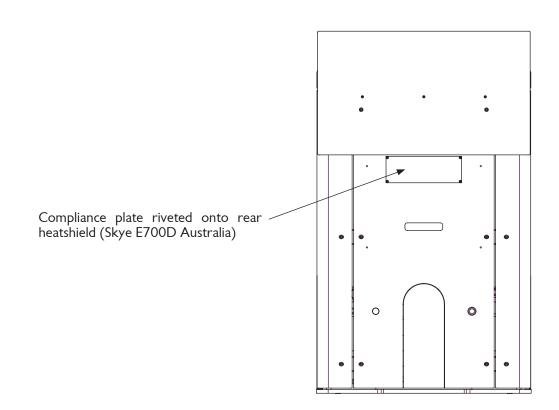
PIVOT STOVE & HEATING CO 120 VICTORIA ST, NORTH GEELONG VIC 3215, AUSTRALIA

TESTED BY:	ASFT		MODEL:	Skye E700D Australia	
TEST REPORT NO: ASFT24102-1			MODEL CODE:	DUA/DULA	
TESTED TO:				1201,7202.1	
TESTED TO.			TYPE:	l	
AS/NZS 4012/4013 (2014)			TTPE:	Freestanding	
DATE: 25/10/2024					
DATE: 23/ 10/ 2027					

#### ONLY USE RECOMMENDED FUELS.

This wood heater needs periodic inspection and repair for proper operation. Consult the operating & installation manual for minimum clearance distances from combustibles. No catalytic combustor. Follow the users instructions.

MAXIMUM AVERAGE HEAT OUTPUT BURNING HARDWOOD:	5kW
OVERALL AVERAGE EFFICIENCY BURNING HARDWOOD:	69%
PARTICULATE EMISSIONS FACTOR:	0.5g/kg



# **CHARNWOOD AUSTRALIA 10 YEAR GUARANTEE**



To register your 10 Year Stove Guarantee please visit or scan QR:

www.charnwood.com/my-stove/guarantees/

and enter the following code: CGG-AUS



#### **TERMS AND CONDITIONS**

**10 Year Warranty:** The firebox of your Charnwood Stove is guaranteed against material and manufacturing defect for a period of 10 years

1 Year Warranty: The consumable items such as bricks, rope seal and associated parts are guaranteed for a period of 1 year.

- The guarantee registration form must be completed online and submitted within 14 days of purchase to enable the guarantee to be activated.
- The following conditions apply:
- If any part fails due to manufacturing or material defect within the guarantee period Charnwood will, free of charge, either repair or replace the part at their discretion. The decision of Charnwood is final.
- This guarantee is for parts only.
- · Charnwood will not be liable for any consequential loss or incidental loss, damage or injury however caused.
- This guarantee will become void if the appliance: is not installed in accordance with the installation instructions; is not
  regularly serviced in accordance with the installation instructions; is subject to misuse or neglect, including the use of nonrecommended fuel; or if repairs or modifications have been carried out by anyone other than Charnwood or their official
  representatives.
- All claims on this guarantee must be made through the supplier of the appliance and must be accompanied by proof of purchase.
- Nothing in this guarantee shall affect your statutory rights.

#### **EXCLUSIONS AND LIMITATIONS**

This Guarantee does not cover the following:

- Charnwood will not be liable for any consequential loss or incidental loss, damage or injury however caused.
- This guarantee will become void if the appliance is not installed by a suitably qualified and is not installed in accordance with the AS.NZS 2918
- This guarantee will become void if the appliance is not installed in accordance with the installation instructions and is not regularly serviced, in accordance with the installation instructions.
- If the product is subject to misuse or neglect, including the use of non-recommended fuels.
- If repairs or modifications have been carried out by anyone other than Charnwood or their authorised representatives.
- Damage caused by over-firing of the stove. Please refer to our operating instructions for further details.
- Damage caused by storing or using the product in a damp environment. Corrosion caused by condensation, damp or water ingress into the flue, chimney or the surrounding of the stove.
- Defects or faults caused by local conditions such as draught problems and chimney defects.
- The paint finish will require touching up or repainting from time to time. Maintaining the finish is normal practice and is not covered by the guarantee.

