

ECO STOVE®



wraps your house in warmth



Owner's handbook

Welcome to the Ecco Stove family. As you probably know this is no ordinary stove so we have put together a quick guide to get you started and explain the usage and differences of your new hybrid masonry heater.

Please ensure you also complete and return your warranty form at the back of your installation manual to receive your ten-year warranty.

Stove Control

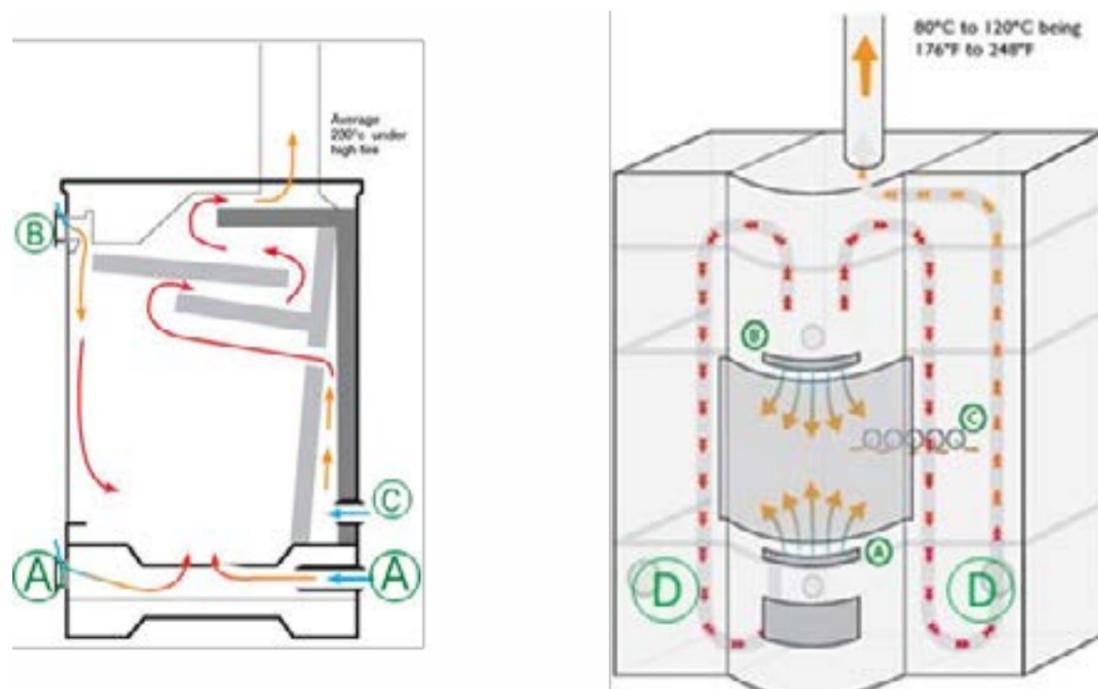
There are three air inlets to the stove and only one is controllable. If you have the 580,678,730 or 850 the disc above the door (B) is for the initial air wash and is pre-set, therefore do not adjust as no adjustment is necessary. The hole at the back of the stove (C) brings in tertiary and the ClearGlass (superheated airwash) with the 645,678 and 730 models and is pre-set so no adjustment is necessary. The ash pan (A) is your only adjustable control and helps with lighting the stove and increasing the burn rate / output.



Lighting a firelighter in the contraflow channels



Opening the ash pan by a thumb's width



First Firing

The Ecco Stove will likely be cold when you first use your stove. To avoid smoke coming back into the room due to a cold chimney and gas channels, first light a firelighter at the base of each contraflow channel via the front plugs (D) (E580 excluded) ensuring the ash pan is closed. Once the sides start to feel warm start a small kindling fire in the chamber after replacing the plugs (D) and opening the ashcan a maximum of 10mm (Shutting the ashcan on your thumb is usually about 10mm). With the 580 start with a small kindling fire with light dry wood and slowly build. Should the smoke swirl around the chamber and not exit, with the 645, 678, 730 and 850 models remove one of the front plugs (D) and light a firelighter as before while shutting the ashcan. Once the smoke has been taken from the chamber replace the plug (D) and open the ashcan to approximately 10mm. The Ecco Stove thermometer should be positioned on the top of the stove between the flue pipe and the front of the stove. On re-starting the stove leave the door ajar a few millimetres for the first log to prevent the glass blackening. With the 580 reduce the load and don't add more fuel to your kindling fire until the smoke is taken away from the combustion chamber.

Fuel

See the user manual for guidance on wood log size and the moisture content will need to be 20% or less and the logs ideally split and no larger than 100-150mm diameter or so. See the table below for information on the approximate weight of logs required to bring the stove to operational temperature within 1.5 to 2.5 hours.

Desired Temperature	STOVE MODEL				
	E580	E645	E678	E730	E850
150°C	5kg	7kg	7kg	8kg	10kg
200°C	8-10kg	10-12kg	10-12kg	10-12kg	14-15kg

Table of fuel required (kg) to raise the stove to 150-200°C (75-100°C for the E645)

Heating your home for the first time

If you have been given a heat plan by a member of our team you will know what to expect regarding temperatures room by room in your home and the suggested fuel usage. First you will need to heat the core temperature of your home up if starting from cold (under 17°C). This will require a more continuous fire, after you have brought the stove up to temperature for the first 1-3 days typically, and will use more fuel than the listed amounts.

After the stove has been brought to 200°C surface temperature (100°C 645 model), continue to add 1-2 logs every hour or so before the embers die to maintain the surface temperature and push the maximum amount of heat through your home, if required.



Using a moisture meter will ensure your logs are suitable for combustion



The Ecco Stove thermometer needle should be between 150 and 200°C, reading "best".

In normal use the Ecco Stove thermometer needle should be at the top end of best for ideal heat delivery. Where possible look to seal or cover any drafts that may stop the heat from permeating through the home as this will be stronger than the gentle heat from the stove. Thick curtains on single glazed windows, draft stoppers on leaky doors etc. for example are all good measures to optimize performance.

Ongoing heating

Your heat plan will show the expected daily fuel usage for your property and stove moving forward. Properties with higher levels of insulation will be more suitable for intermittent firings whereas lower level insulated properties will require more continuous fires throughout the day typically depending on the external temperature. Always ensure you are achieving at least 150-200°C (100°C 645 model) surface temperature for the most efficient burn and optimised performance. Allow ash to build up over the grate (burning cardboard assists in choking the grate bars) as wood burns better in ash.



Under typical usage the ash pan will need emptying once a week



Leaving a bed of ash over the grate will yield a better combustion

Maintenance

The Ecco Stove requires very little maintenance. If you are just burning wood you can let your ash pan fill up only emptying when full (typically once per week depending on usage). Once every three months remove the plugs (D) to the contraflow channels to check they are not too full. If half full or more, clean out ensuring you clean to the very back. Once per year take off the side plugs (top with 850, N/A with 580 models) and sweep vertically down your contraflow channels with the brush provided, then clean out the base of the channels as normal. Typically once every 2-3 years depending on fuel and usage you may need to replace the door rope seal and ash pan seal, which can be affixed with off the shelf rope glue from most good stove shops.

Cleaning the Glass

When fired correctly you will only get trace amounts of ash and dust on the glass which will typically clear due to the CleanGlass system on each Ecco Stove. However should your glass get dirty simply get a damp tissue, dip it into the ashes of your stove and rub onto the glass in a circular motion. You can then use a dry tissue to remove any remaining deposits.

If the door glass becomes blackened when re-starting:

- leave the door ajar a few millimetres
- Keep logs to the back of the fire chamber
- Only open the ash pan up to 10 millimetres, opening too far will pressurise the fire box and cause glass blackening in early stages.



Check the contraflow channels to make sure they are not too full. Removing soot will improve the circulation in the gas channels



Use a damp tissue with ash to remove deposits from the stove glass

If you have any other questions about your Ecco Stove, it's running or maintenance please feel free to contact us at 01527 857 814 or sales@eccostove.com. We wish your many years of enjoyment with your Ecco Stove. Thank you again for your purchase and welcome to the family!

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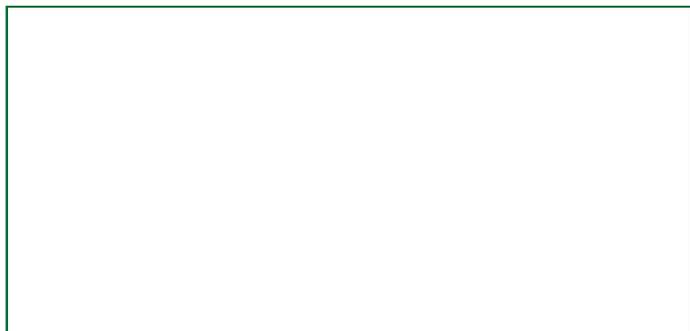
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Your local Ecco Stove® Specialist:



Specific technical information should be sought direct from the Ecco Stove® Specialist in your area.

We reserve the right to change dimensions and specifications in our products without notice. Contact us for new developments.