

ECO STOVE™

wraps your house in warmth

Wood & Smokeless Fuel

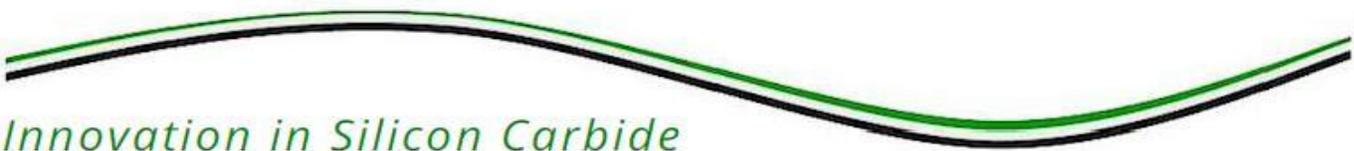
Choosing the right fuel is very important when getting ready for the heating season with your Ecco Stove. The Ecco stove is designed to burn wood and smokeless fuels and due to its efficient burn can also burn wood in a smokeless zone (DEFRA exempt).

Biomass fuel is a generic term used to describe material that has come from living or recently living organisms. The most common being wood (logs), wood pellets, wood chips, Peat, manure, crops and other scrap timber. Biomass is an important step in maintaining our environment as it is low carbon or is carbon neutral in its emissions which creates a closed carbon cycle.

How it works:

Trees absorb CO² from the atmosphere using sunlight (Photosynthesis). When the tree is cut down and used for fuel the CO² is released back into the atmosphere during combustion / burning. As long as the trees that have been cut down are replaced with new ones the released CO² is reabsorbed. This creates a renewable source of fuel that contributes to the environment as opposed to damaging it. The more efficient the stove the better it is at reducing the harmful material released when biomass is burned. The Ecco stove has been tested at 88% efficiency and 0.07% carbon output (EC678) making it one of the more efficient wood burning stove / slow heat release stove / Masonry heaters on the market.

Smokeless fuel often looks similar to coal but designed to burn much more cleanly. The Ecco Stove is capable of burning this material having primary air flow directed through it to ignite and maintain combustion. The Ecco stove has been designed to burn these fuels as well as wood (logs).



Innovation in Silicon Carbide

Fuel Choices | current as of May 2015

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Patent pending USA, Canada, Europe & Russia | UK Patent nos: 2467433 & 2498883

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WOOD LOG CHARACTERISTICS (ENERGY)

	DENSITY KgM ³ *	GROSS CALORIFIC VALUE	% MOISTURE WHEN GREEN	SEASONING
SOFT WOOD				
PINE/FIR	410	2.6	60%	1 SUMMER
POPLAR	465	2.6	65%	1 SUMMER
HARD WOOD				
ASH	674	4.1	35%	1 SUMMER
BEECH	690	4.3	45%	½ SUMMER
BIRCH	662	4.1	45%	1 SUMMER
OAK	770	4.5	50%	¾ SUMMER
ELM	540	3.6	60%	¾ SUMMER

TYPICAL ENERGY AVAILABLE
Logs stacked and air dried 20% humidity 4.2 kw/kg
Logs Kiln Dried 20% humidity 5 to 5.8 kw/kg

- DENSITY refers to weight by volume

For more information or advice you can call us on 01527 857814 or email sales@eccostove.com



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