

ECO STOVE™

wraps your house in warmth

Domestic Hot Water (DHW) – Hot Box

The Ecco stove can be used for domestic hot water (DHW) through the use of the hot box. Due to the nature of the silicon carbide the amount of heat transferred will be less than a conventional boiler stove and will take longer to re-heat the water used. Therefore we suggest using the hot box in conjunction with a secondary system such as an immersion heater to support in order to provide adequate hot water.

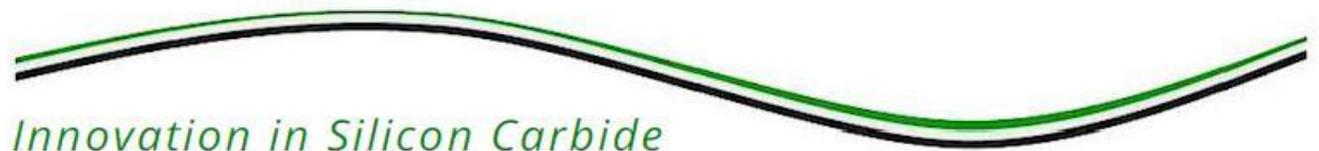
The amount of water provided is 2 x 30 gallon cylinders to 45°C in 24 hours provided the Ecco stove® is run to optimum 200°C for 15 hours in 24.

The stainless hot water coil is built into the hot box via 2 x 10mm male threaded tails projecting from the back of the hot box at a centre point of 935mm above the hearth on which the stove stands. The height of the stove is increased from 878mm to 1000mm.

Connection may be gravitational to a direct or indirect cylinder or fully pumped without gravitation maximum operating pressure of the coil is 4Bar therefore the system must be regulated to this maximum operating pressure as the DHW heater coil within the Ecco stoves® hot box has no such facility hence relies on the outside system safety devices to protect it. E.g open vented or a regulatory pressure release system.

Ensure all flow and return pipes are 28mm (bar a gravitational system) and lagged throughout and deliver their heat into a cylinder or Heat Storage Cylinder such as a buffer tank.

This system is not powerful enough to add directly to a wet house heating system – DHW only. The temperature output of the Ecco Stoves® water heating coil is typically 45°C therefore not adequate to add directly into a central or under floor system – only a buffer tank on domestic hot water cylinder. A buffer tank or accumulator vessel is the ideal medium to store the Ecco Stoves® hot water produced.



Innovation in Silicon Carbide

Domestic Hot Water | current as of March 2016

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