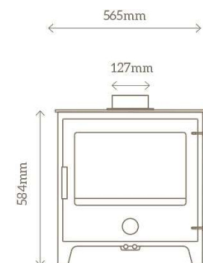


Chilli Penguin "Woody" CAT Advanced Wood Stove

<https://www.calonyradref.co.uk/chilli-penguin-woody-eco-cat-advanced-catalytic-wood-stove>

If you have a big space in your life and you only want to burn wood, then this version of Woody is the one for you. Slim, efficient, clean burning and innovative. The Woody Eco (Cat) is **83% efficient** and has a **particulate emission figure that is 75% lower than the figure required by Ecodesign** standard, thanks to the catalytic converter technology.



We are really impressed with the results achieved using catalytic converters. However they do come at a cost, a lot of wood only stoves cost less than their multi fuel equivalents, as they tend to be more simple, with less components. A catalytic converter stove includes additional components. Each of these stoves include two (replaceable) catalytic converters. So we thought we should explain what you are paying for and why they are effective.

A catalytic converter consists of a honeycomb type structure with a large surface area which is coated with catalytic materials. As the gases pass over the surface chemical reactions occur, resulting in changes to the composition of the flue gases. In a wood stove, oxidation of the products of incomplete combustion, change the make-up of the gases, for example toxic carbon monoxide and hydrocarbon gases are oxidised into less harmful carbon dioxide and water. These chemical reactions release heat energy. This is effectively a secondary combustion process, as it raises the temperature of the converter to the point where solid soot particles can be burned. For this reason they are sometimes referred to as 'catalytic

combustors'.

The secondary heat retaining glazing with air wash and the landscape window offer a clear, generous view of the fire. It also has the newly designed Chilli Penguin handle.

Ecodesign

In order to be an Ecodesign stove, a stove must be independently verified to meet stringent emission requirements. Particulates or PMs are the most commonly recognised of these measures. The maximum limit for these is 40 mg/m³. **This stove achieves just 11mg/m³.** All other measures are all listed in our technical details table below. Click here for further Ecodesign info.

View full info, images & specifications at:

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