

Yunca Wood Heater Blog

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Interesting about the difference between New Zealand customer requirements and Australian customer requirements.

In Australia, the question regularly asked, will the heater be burning in the morning.

In New Zealand, the question regularly asked, will the heater still be hot in the morning

The Yunca wood heater's are made with 10 x 40mm thermal mass furnace bricks that really hold the heat.

Unlike traditional fire bricks, thermal bricks are what are used in kilns and pizza ovens to ensure consistent heat for hours.

The difference thermal mass bricks offer is storage of the heat, and slow release over many hours to keep the heating in your home hours after the heater has gone out

The Yunca Monte wood heater will heat up to 200m², and on a full load of wood will but 8 to 10 hours : but will continue to heat your home for at for up to 8 additional hours.

With the 10 firebricks on both sides and rear wall of your Yunca Monte, there bricks entirely cover all the firebox walls to give full environment for your fire.

Environment for your fire is critical for all wood heaters, to get the best form your fire, the actual fire need to be looked after.

On a good ash base, with furnace bricks on all sides, the fire can burn at a higher temperature to increase the efficiency.

This not only means you have a hotter fire, and left with ash (heaters that leave massive lumps of un-burnt coals are a true sign of a incomplete burn, or your fire is not burning at the right temperate) but the best thing is you will get less smoke .

Baffle plate

Inside the heater, the baffle plate is made from 304grade stainless.

This baffle plate acts also as your secondary burn :

All wood heaters use "secondary air" technology. What this is : by introducing extremely hot air into the smoke your fire produces, you can re ignite the smoke (which is un- burnt fuel)

This re-ignition does a number of things

- it gives you more heat : the additional flames you get from this re-ignition is heat you would not have have got.

- it reduces the smoke : reducing emissions for greenhouse gasses is the worlds number one long term issue, and wood heaters do produce smoke that does enter the atmosphere : by re burning the smoke, turning it into flames, you are significantly reducing the emissions

In the 1970's and 1980's when the wood heater boom took off, there was no real focus here, and for every 1kG of wood you burnt in your heater made in the 1970's and 1980's you produced up to 50gms of emissions in to the atmosphere

In the 1990's and 2000's, the introduction of secondary burn made a massive difference, heaters started to produce less smoke : down form 50gms per 1kG of wood - to 5gmrs per 1gk of wood you burnt

The Yunca Monte wood heaters only produced 0.92Grms of emissions per 1Kg of Wood you burn

How they do this is significantly increasing the temperature of the secondly air. Where traditional wood heaters have a round 25mm stainless (or sometimes steel) tube with holes under the baffle

This 25mm round tube has air passing through it, and being directly over your fire, it gets hot - the heat heats the air and when it comes out of the holes, this hot air ignites the smoke - creating a secondary burn

The difference is in the Yunca Monte wood heaters, rather than a small 25mm tube : the entire top baffle is the secondary air.

The baffle is 900% larger than a single 25mm air tube : thus this significant surface area increases the temperature of the air passing though this from a traditional 250+oC to over 800+oC

This significant air temperature entering the un burnt smoke ignites the smoke to create an extraordinary increased secondary burn.