

200kW containerised chip boiler, with filling trough – Swimming Pool Sector

Thames Centennial Pool
Thames, New Zealand

Intro Thames Pool was previously heated using electric heat pumps, which were not providing adequate heating, even for over \$100k per year. Wood chip was selected as the best long-term option.

General The Austrian wood chip boiler now supplies all the heat to the pool. The client needed a containerised solution to facilitate future re-location of the boiler if required. It was Australasia's first wood chip boiler installed in a container, and was supplied and installed on a turn-key basis by Living Energy Ltd.

Additional Information The chip boiler costs less than \$20k per year to run, including twice yearly servicing.



Woodchip Boiler

View into fuel store



Boiler Manufacturer	Hargassner GmbH (of Austria)
Fuel Recovery	2.5m diameter chip agitator
Fuel	Wood Chip less than 30% mc
Boiler House	3000 x 2345 x 2680 mm
Swimming Pool Volume	tbc
Fuel Store Capacity	c.35m ³ (7-10 days in winter)
Commissioned	August 2010

Chip reception system

Trucks reverse up to this trough, and tip in. A horizontal and vertical auger system fills the fuel store at 50m³/hour, allowing a lot of fuel in a small footprint.



Client Comment

"The installation of this heating system has completely changed the way we can operate our facility. It has given us a guaranteed temperature to work with through the winter months, so we can offer far more programmes to users of all ages, all year round. Our patrons know they can rely on the pool being the same temperature every time they come, no matter what time of year. We have seen a great rise in the number of users as a result of our new heating system. As well as being a reliable, easy to operate system, it has also saved us huge amounts on our energy costs."
Paul Dufty, Pool Manager.