

100kW containerised chip boiler, with filling trough – Swimming Pool Sector

Wanaka Community Pool
Wanaka, New Zealand

Background Wanaka Pool was previously heated using electricity, which was becoming ever more expensive. Wood chip was selected as the best long-term option. The client needed a containerised solution to facilitate future re-location of the boiler if required.

General This Hargassner wood chip boiler heats the pool water as well as the building air, to prevent condensation and extend the building life. It was supplied and installed on a turn-key basis by Living Energy. Larger boilers can be containerised if required.

Additional Information Funding was received from the Crown Loan scheme, and from EECA's Wood Energy Scheme.

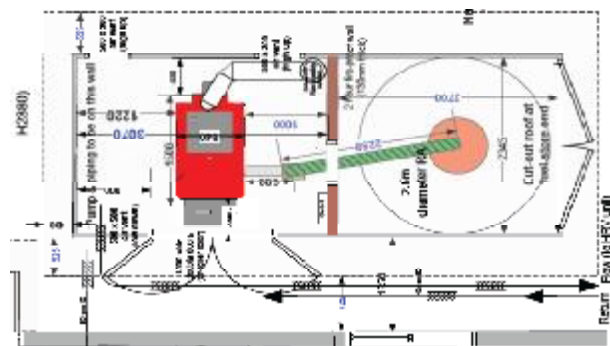


Woodchip Boiler

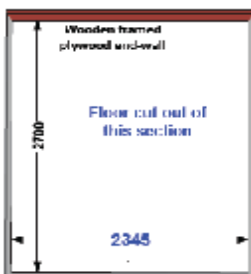


Boiler Manufacturer	Hargassner GmbH (of Austria)
Fuel Recovery	2.5m diameter chip agitator
Fuel	Wood Chip less than 30% mc
Boiler House	3070 x 2345 x 2380 mm
Swimming Pool Volume	tbc
Fuel Store Capacity	c. 30m ³ (10-14 days in winter)
Commissioned	April 2011

Layout



Second level : Plan View
 1 half of a 20 foot shipping container
 (Internal dimensions: 12700 x 6234 x 1820)



Client Comment

“Replacing the current electric boiler has introduced technology capable of producing heat at a materially lower cost compared to current technologies. The cost of electricity has risen lately and may continue to increase”
Paul Wilson, QLDC Council.

“The benefits of this project are an attractive payback period and continued savings for the Community [...] this creates a positive green footprint for the Council and is a great example of reduced emissions and sustainability for the community,
Briana Pringle, QLDC Forester