

WATERWARE

MODULAR PLANT ROOM SKIDS

waterware.co.nz

BESPOKE | PRE-PLUMBED | PRE-WIRED | PRE-TESTED | TRANSPORTABLE

Commercial duty domestic hot water and or central heating plant rooms designed and built off site according to specific installation requirements. Cost contained, these turnkey modular plant rooms are built on a custom designed steel chassis which is transported to site fully assembled, needing only basic wiring and plumbing connections to make operational.

Domestic Hot Water

Commercial quantities of domestic hot water are generated via an optimised combination of appliances and duplex stainless steel hot water cylinders – the selection of which may be influenced by site limitations, client preference, performance requirements or fuel sources available on site.

Central Heating

The same heat source used to generate the domestic hot water can also be utilized to load share and generate the appropriate temperature water for underfloor and or radiator central heating systems or even for heating large pools.

Delivery and Commissioning

Typically the completed skid is transported via flatbed truck and lifted into position via appropriate lifting eyes incorporated into the chassis design. According to the availability and competency of local trades, Waterware can also contract in to commission the installation if required.



PRIMARY COMPONENTS



VAILLANT AROTHERM HEAT PUMPS

Vaillant aroTHERM air to water heat pumps harvest free energy found in the air outside the building envelope even when external temperatures drop as low as -10°C. Engineered in Germany, Vaillant heat pumps offer world leading quality and reliability.

Model	HPV9	HPV16
Heat output (Water 35°C / Air 7°C D.B):	8.1kW	14.6kW
Operating efficiency (according to A7/W35):	470%	450%
Height:	975mm	1380mm
Width:	1103mm	1103mm
Depth:	463mm	463mm



VAILLANT ECOTEC GAS BOILERS

Vaillant ecoTEC gas boilers are a premium quality, high performance condensing boiler packed with features which result in the most reliable and lowest running cost boiler available today.

Model	GBV15	GBV24	GBV37	GBV46	GBV80	GBV120
Heat output (80°/60°):	3-15kW	5-24kW	6-37kW	12-44kW	15-75kW	22-112kW
Maximum efficiency:	112%	112%	112%	108%	109%	109%
Height:	720mm	720mm	720mm	800mm	960mm	960mm
Width:	440mm	440mm	440mm	480mm	480mm	480mm
Depth:	335mm	335mm	403mm	450mm	602mm	602mm



GRANT VORTEX DIESEL BOILERS

Grant Vortex diesel boilers are a premium quality, high performance condensing boiler made in Ireland. They are quiet, clean burning, reliable and are a practical option particularly in areas lacking reticulated gas.

Model	DBV26	DBV36	DBV46
Heat output (80°/60°):	5-26kW	26-36kW	36-46kW
Maximum efficiency:	95%	97%	93%
Height:	860mm	900mm	1234mm
Width:	470mm	470mm	563mm
Depth:	603mm	603mm	786mm



PROTANK DIRECT HOT WATER CYLINDERS | 500L and 1000L

Protank direct hot water cylinders are designed for high demand hot water production using the high output 'Habanero' heat exchanger module or as a stand alone buffer tank for direct water heaters.

Features

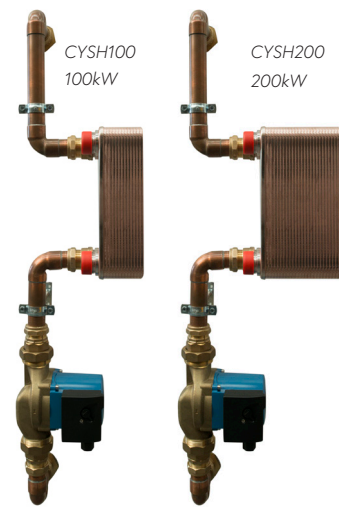
- 800kPa or 1000kPa cold water expansion installation kits
- All tapping's including the inlet and outlet ports are side mounted for easy access and reduced overall height
- Direct mount pressure relief and cold water expansion valve ports vertically aligned for easy waste connection
- Up-sized 50mm inlet and outlet ports for low pressure drops and high flow rates
- Integrated temperature gauge port
- Convenient installation kit including gauge, pressure relief valve, cold water expansion valve & primary thermostat



OPTIONAL 'HABANERO' MODULE

In place of the traditional coil in tank style calorifier, together with RM Cylinders we have developed an external heat exchanger module which manifolds directly into the accumulators pre-arranged ports.

Model	CYSH100	CYSH200
GEA Heat exchanger brased plate	AISI304 brased plate	AISI304
Maximum transfer	100kW	200kW
Primary flow required	8.8m ³ /hr	14.7m ³ /hr
Primary pressure drop	41kPa	35kPa
SS Recirc. pump size/volatge	32mm, 230V	32mm, 230V
Pump max consumption	190W	225W



CALEFFI PRESSURE AND TEMPERATURE CONTROL VALVES

Caleffi from Italy is one of Europes largest and most highly respected manufacturers of plumbing and heating control valves. Waterware has represented Caleffi's full range of domestic hot water and central heating control valving in NZ for over 20 years.



RECENT PROJECTS

Star Mountain Hilton Hotel Papua New Guinea : 212 room 5 star hotel and convention centre.

3 x 120kW LPG boilers and 4000 litres of storage.



Sherwood Lodge Hot Water and Heating Skid: 80kW gas boiler and 1000 litres of storage.

Set on three acres of alpine hillside in Queenstown overlooking Lake Wakatipu and the Remarkables range, Sherwood offers a unique setting to unwind, and reconnect with self and nature.

Stratford Pool Heating Skid: 4 x 120kW gas boilers and heat exchangers.

The TSB Pool Complex has a 25m, 7 lane heated indoor pool, an indoor learners pool, an outdoor toddlers' pool and showering facilities.

Village At The Park Hot Water and Heating Skid: 3 separate skids, the latest 170kW gas boiler and 1000 litres of storage.

Village at the Park Lifecare is built on the site of the former Athletic Park and provides a range of aged life care options for its residents.

Woodlands Resthome Heating Skid: 4 x 120kW gas boilers and 1000 litres of storage.

The Woodlands Resort resthome caters for those aged over 70 years young and includes an onsite hospital facility.