

In commercial and public areas where an instant, reliable and significant source of hot water is required, we provide heavy duty hot water heating and storage systems.



Our low and mains pressure commercial hot water cylinders are widely used in hotels, motels, camping grounds, schools, hospitals, student and aged facilities, golf courses, sports clubs and gyms, factories and more throughout New Zealand. All of our commercial hot water cylinders are made in New Zealand to meet both New Zealand and Australian standards.

With over 25 years in research and development, our commercial hot water systems are proven as both effective and energy efficient in the most demanding and high-use environments.

- Mains pressure sizes from 33 to 1000 litres capacity
- Low pressure sizes from 10 to 800 litres capacity
- We can include fittings of up to 5" (125mm) for mains pressure and 1½" (40mm) for low and medium pressure
- We can include multiple fittings if several heat sources are used
- Coils or multiple coils can be specified for any indirect heat source such as boilers, solar and hot water heat pumps
- Additional electric heating elements from 1 – 6kW
- Sets of three for 3 phase from 3 – 18 kW
- Direct connections can be included for heating from solar, hot water heat pumps, gas califonts, etc.
- Scavenger coils can be included to transfer heat for the purpose of under floor heating
- Ring main connections
- Probe pockets to mount sensors and probes into the HWC for measurement and control
- Fully insulated and cased to NZ MEPS.
- Galvanised outer case is standard but can be specified with a stainless steel outer case if there is a potentially corrosive environment or if the cylinders are visible to the public



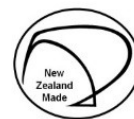
**Our 1000 litre mains pressure commercial cylinders are available in both 500kPa and 800kPa.**



**We are happy to provide advice regarding the size and layout of commercial hot water cylinders to ensure your requirements are met.**

**For technical assistance contact us on +64 3 389 9500  
Or email us [info@superheat.nz](mailto:info@superheat.nz)**

**Mains pressure cylinders** operating pressure of 500 kPa (850kPa relief valve). Superheat mains pressure cylinders are custom made to order from 33 to 1000 litres capacity.



### CUSTOMISABLE COMMERCIAL MAINS PRESSURE SIZES

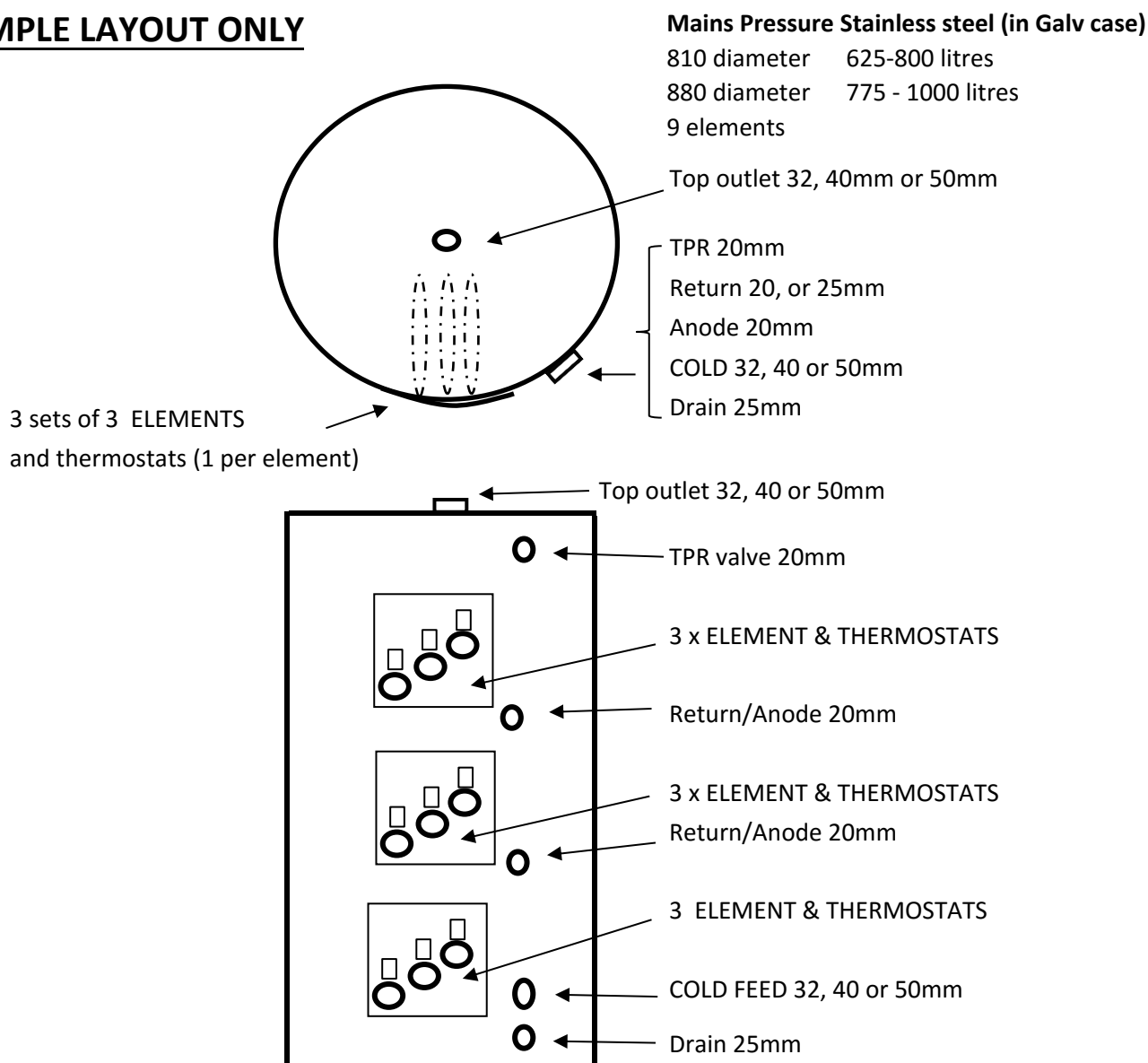
LITRES	DIAMETER	HEIGHT	ELEMENT kW
33	460	500	2
50	460	690	2
90	460	1100	2
125	460	1450	2
195	560	1300	3
250	580	1620	3
250	710	1080	3
280	580	1820	3
300	580	1935	3
300	710	1260	3
300	810	1020	3
335	710	1360	3
350	710	1430	3
350	810	1150	3
400	710	1610	4 or 5
400	810	1310	4 or 5
450	710	1780	4 or 5
480	710	1880	5
500	710	1960	5
500	810	1570	5
600	710	2280	5
600	810	1840	5
625	810	1900	5
700	810	2100	5
800	810	2380	5
1000 (500kPa)	880	2380	5
1000 (800kPa)	880	2380	5

### Other sizes also available – CALL US FOR MORE INFORMATION

- Cylinders with alternative element sizes and multiple element options can be made to order (on models 50 litre capacity and upward). Elements in sets of three for 3-phase power.
- Coils can be added to cylinders 560mm diameter and upward for indirect heating from solar, wetback, (must be minimum height of 1300mm), boiler, hot water heat pump, etc. Multiple coils are also available.
- Connections can be added for direct heating from solar, hot water heat pumps, etc. Probe pockets can also be added.
- Outdoor cylinders are available with additional insulation.

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### EXAMPLE LAYOUT ONLY



<b>Valve vented Cylinder</b>	625 litre	810x1900	650 litre	810x1970	700 litre	810x2100
<b>Mains pressure</b>	750 litre	810x2230	800 litre	810x2380	850 litre	880x2070
<b>(typical sizes)</b>	775 litre	880x1900	800 litre	880x1960	1000 litre	880x2380
	900 litre	880x2170	950 litre	880x2280		

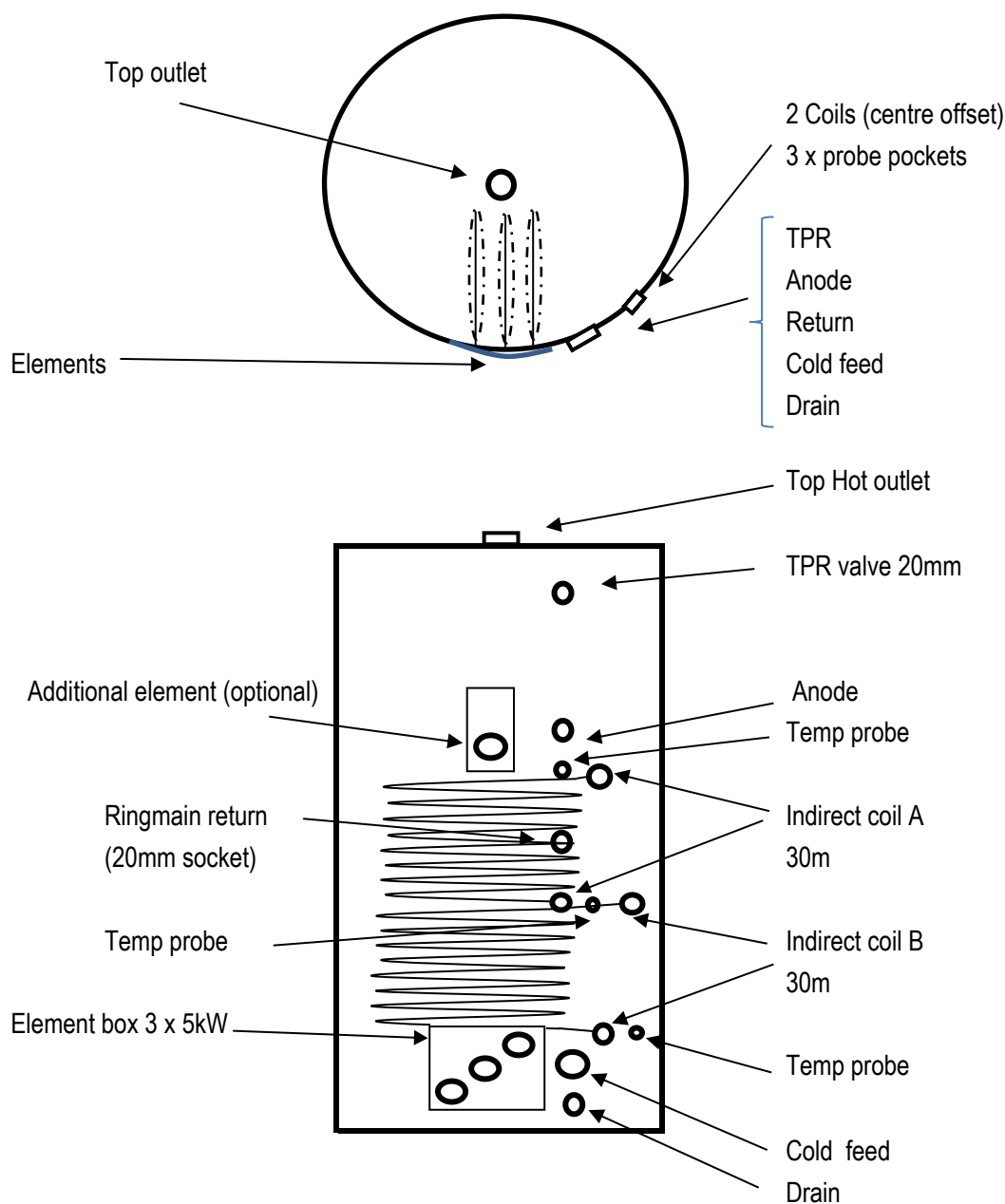
### **Stainless steel inner barrel fully insulated (NZ MEPS) in galvanised casing**

<b>Cold feed &amp; Hot out</b>	32mm, 40mm or 50mm		
<b>Element &amp; thermostat</b>	<b>2,3,3.6,4,5 or 6kW</b>	3 x upper + 3 thermostats (control + overtemp)	
	<b>2,3,3.6,4,5 or 6kW</b>	3 x mid + 3 thermostats (control + overtemp)	
	<b>2,3,3.6,4,5 or 6kW</b>	3 x lower + 3 thermostats (control + overtemp)	
<b>Additional connections</b>	20mm TPR		
	25mm Drain		
	20mm return		
	20mm with Anode fitted.		
<b>Pressure rating</b>	Max inlet Pressure 500kPa		
<b>TPR</b>	850kPa (valve included)		

### EXAMPLE LAYOUT ONLY

Mains Pressure Cylinder

1000 litre 880 x 2380 or 800 litres 810 x 2390  
with 2 indirect 30m coils (7.2m<sup>2</sup>)



**Valve vented Cylinder ( stainless Steel)**

**Max Inlet Pressure (Relief Pressure)**

**Cold & Hot**

**Indirect heating coil**

**Element & thermostat**

**Upper Element (optional)**

**Anode**

**Return (ringmain)**

**Drain**

**TPR**

**Casing**

1000 litre 880 x 2380 OR 800 litre 810x2380

500kPa (850kPa)

40mm

2 of 25mm x 30m (pumped)

3 x 5kW + thermostat (control+overtmp)

1 x 5kW (eg ringmain protection)

20mm (1 x Anode included)

20mm (or 25mm)

25mm

20mm (valve included)

Fully insulated galv casing



## Universal Stainless Steel 1000L Cylinders

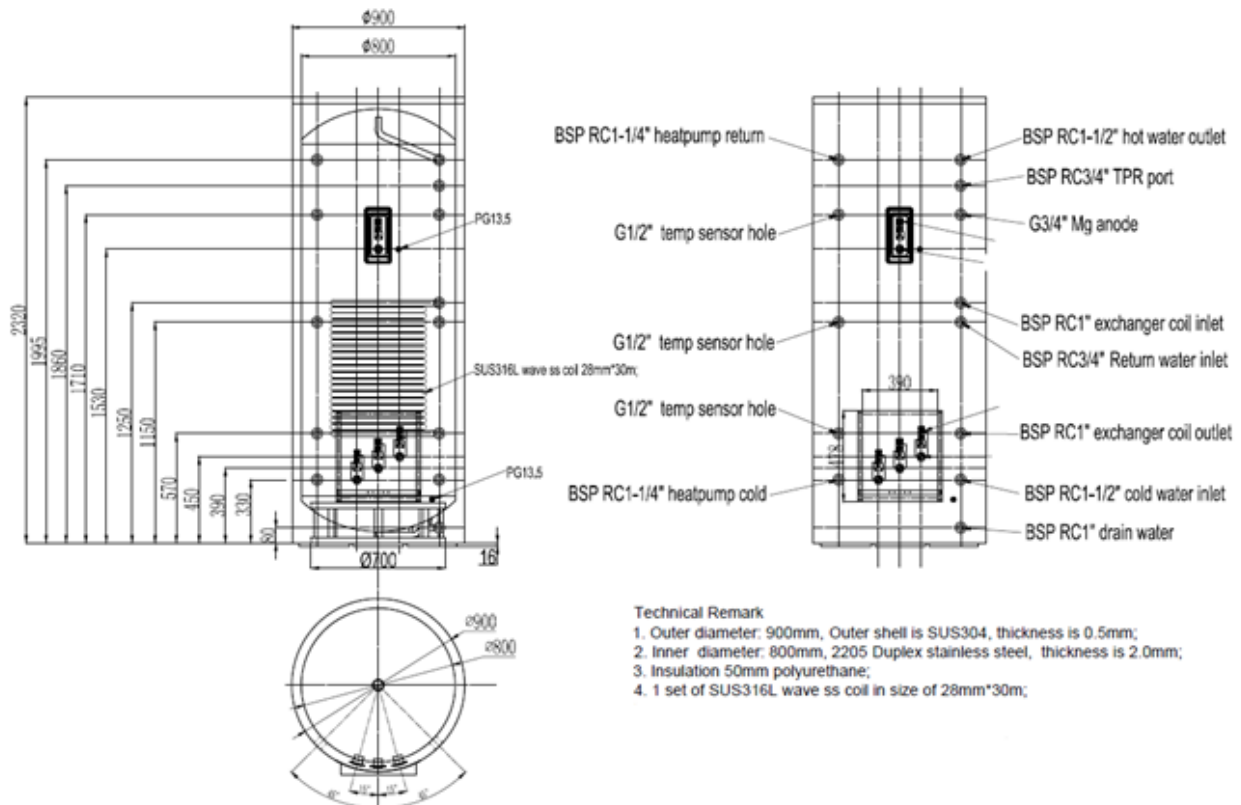
We offer these universal stainless steel 1000 litre units with, or without coil, up to 4 x 5kW titanium elements and thermostats, 3 strategically placed thermo pockets, and multiple “in and out” ports.

The intention is to have a high quality, stainless sheathed, cylinder that can be used for most applications, available for immediate delivery, at a price that will suit your budget.

### H1000 PAWT-1000LE1 WATER STORAGE TANK WITH COIL

#### Dimensions:

<b>Tank Capacity:</b>	<b>1000 litres</b>
<b>Tank Size:</b>	<b>900mm dia. x 2320mm</b>
<b>Power Supply:</b>	<b>high 220V/IP/50Hz</b>
<b>Max Operating Pressure:</b>	<b>6 bar</b>
<b>Max Testing Pressure:</b>	<b>10 bar</b>
<b>Heat Exchanger:</b>	<b>3.8M<sup>3</sup></b>
<b>Net Weight (empty):</b>	<b>179kg</b>
<b>Max Water Temperature:</b>	<b>90°C</b>

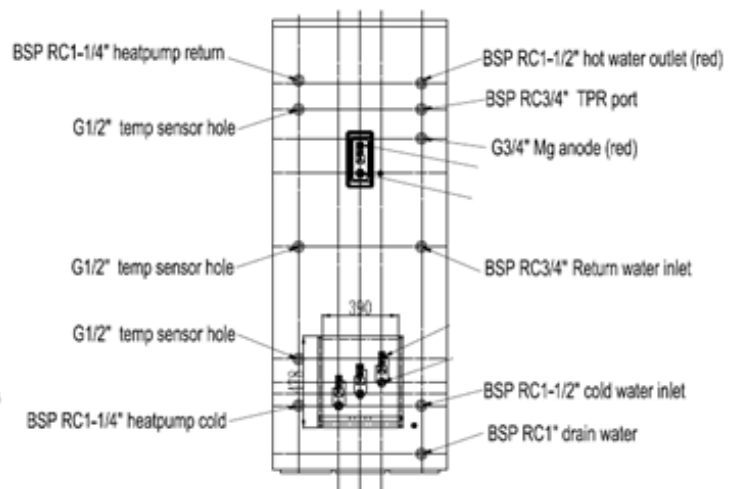
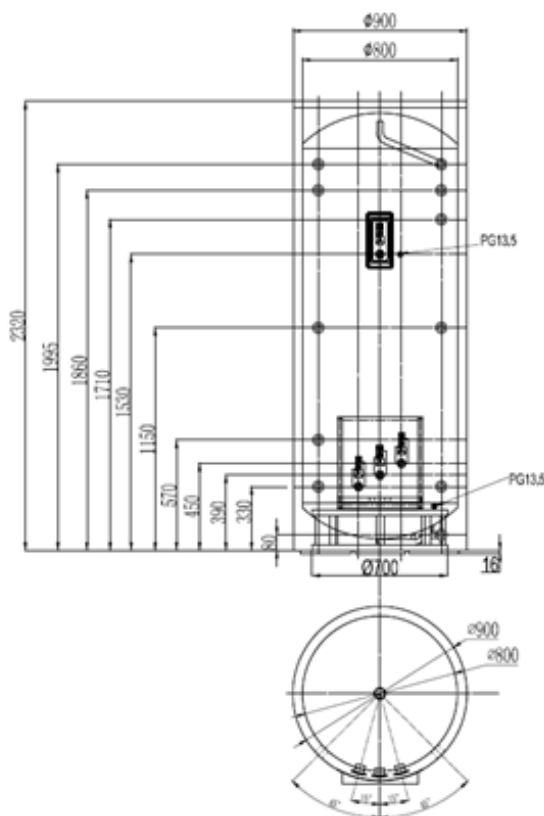




## H1000 PWT-1000L WATER STORAGE TANK WITHOUT COIL

### Dimensions:

<b>Tank Capacity:</b>	<b>1000 litres</b>
<b>Tank Size:</b>	<b>900mm dia. x 2320mm</b>
<b>Power Supply:</b>	<b>high 220V/IP/50Hz</b>
<b>Max Operating Pressure:</b>	<b>6 bar</b>
<b>Max Testing Pressure:</b>	<b>10 bar</b>
<b>Net Weight (empty):</b>	<b>170kg</b>
<b>Max Water Temperature:</b>	<b>90°C</b>



#### Technical Remark

1. Outer diameter: 900mm, Outer shell is SUS304, thickness is 0.5mm;
2. Inner diameter: 800mm, 2205 Duplex stainless steel, thickness is 2.0mm;
3. Insulation 50mm polyurethane;