

# WATERWARE

## PROTANK+ | 500 and 1000 Litre 'Habanero' Accumulators

The 500L and 1000L accumulators are used for high demand hot water production using either the indirect high output 'Habanero' heat exchanger module or as a stand alone buffer tank for direct water heaters.

### Unique features:

- 800kPa or 1000kPa cold water expansion valve kits
- All tappings 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
- Upsized 50mm inlet and outlet ports for low pressure drops and high flow rates
- Integrated temperature gauge port
- Convenient accumulator installation kit including gauge, pressure relief valve, cold water expansion valve & primary thermostat

### 500L / 1000L Specifications

	800kPa CWE / 1000kPa CWE
Vessel construction:	Premium 2205 Marine Duplex Stainless Steel.
Recommended operating pressure:	600kPa / 800kPa
Maximum operating pressure:	700kPa / 900kPa
CWE Valve setting:	800kPa / 1000kPa
PR Valve setting:	1000kPa / 1200kPa
Insulation:	Environmentally friendly 50mm foam
Outer casing:	Plasticised white 'Zintec' skin.
Conditional guarantee:	10 years (refer page over)

### The 'Habanero' Module

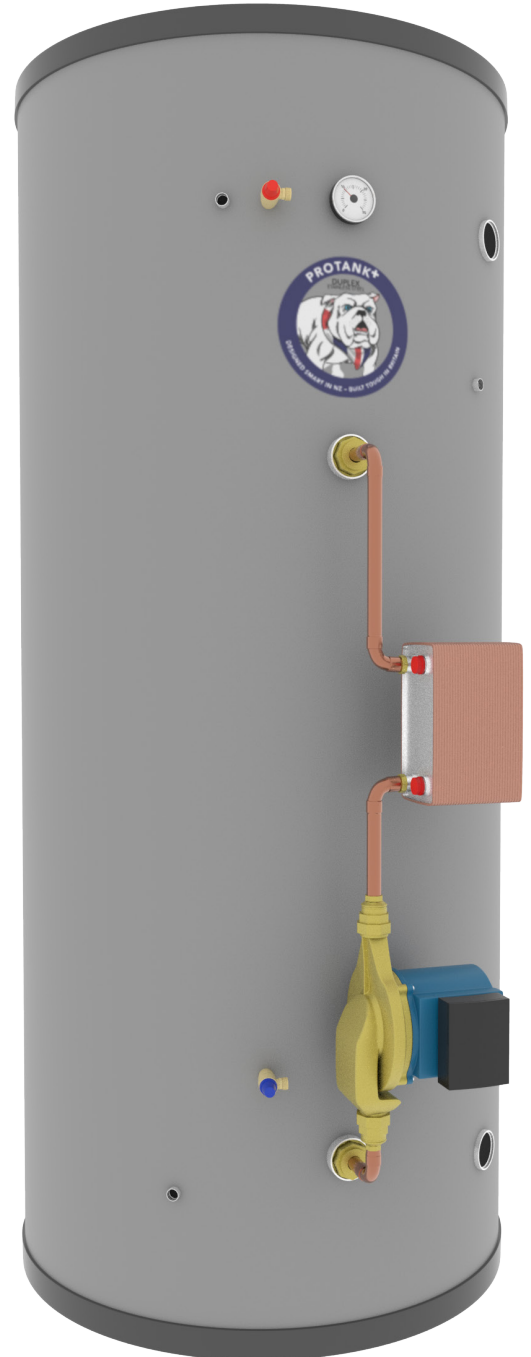
In place of the traditional coil in tank style calorifier, together with RM Cylinders we have developed an external heat exchanger module which manifolds directly into the accumulators pre-arranged ports.

This allows a significantly higher kW transfer than would normally be possible if using internal heat exchange coils while also retaining the full 500L or 1000L storage capacity. The result is large volume hot water production for less cost and a smaller foot print.

The 500 and 1000L share the same convenient tapping size and positions which will accept both the 100kW or 200kW 'Habanero' modules.

### Specification

	CYSH100 / CYSH200
Heat exchanger brand/type:	GEA / AISI304 brased plate
Maximum transfer:	100 kW / 200 kW
Primary required flow:	8.8m <sup>3</sup> /hr / 14.7m <sup>3</sup> /hr
Primary pressure drop:	41 kPa / 35 kPa
Secondary pump type:	32mm Bronze re circulating
Voltage:	230V
Maximum consumption:	190 watts / 225 watts



Hot Water Production	60min	120min	180min	Recovery	
500L + 100kW	2500 litres	4400 litres	6300 litres	11 min	Calculations using; 15°C inlet temperature 75°C Stored temperature 60°C Delivered temperature Recovery 30°C (45°C - 75°C) Boiler flow/return 80°C / 70°C
500L + 200kW	4400 liters	8200 liters	12000 liters	6 min	
1000L + 100kW	3200 liters	5100 liters	7000 liters	21 min	
1000L + 200kW	5100 liters	8900 liters	12700 liters	11 min	

### Installation Kits



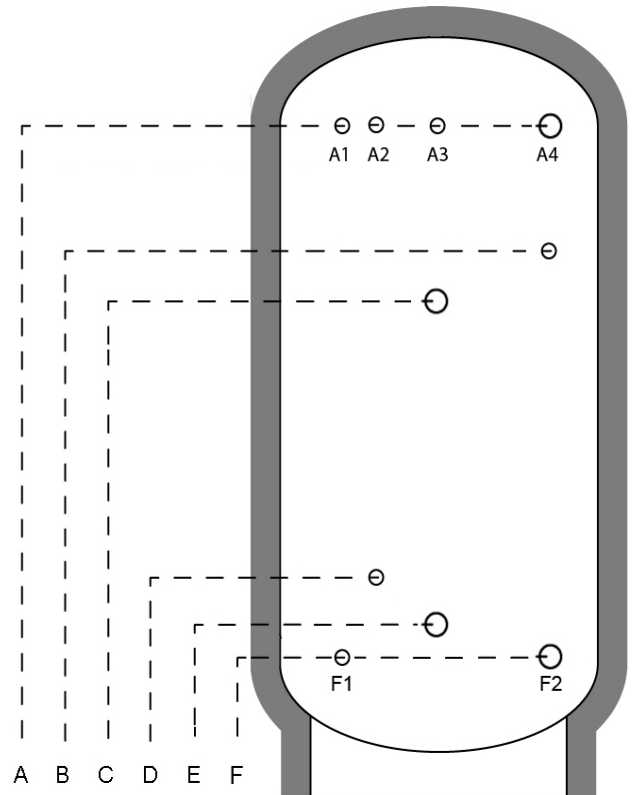
### 800kPa: CYSC500K, CYSC1000K

- 1 x Caleffi 1000kPa PR Valve
- 1 x Caleffi 800kPa CWE Valve
- 1 x Caleffi Temperature Gauge
- 1 x Primary Thermostat

### 1000kPa: CYSC500KHP, CYSC1000KHP

- 1 x LVP 1200kPa PR Valve
- 1 x Caleffi 1000kPa CWE Valve
- 1 x Caleffi Temperature Gauge
- 1 x Primary Thermostat

	CYSS500	Dimensions	CYSS1000	Dimensions
<b>Capacity</b>	500 litre	-	1000 litre	-
<b>Height</b>	1830mm	-	2123mm	-
<b>Diameter</b>	720mm	-	915mm	-
<b>PR (A1)</b>	20mm	1575mm	20mm	1867mm
<b>Stat pocket (A2)</b>	-	1575mm	-	1867mm
<b>Gauge port (A3)</b>	15mm	1575mm	15mm	1867mm
<b>Outlet (A4)</b>	50mm	1575mm	50mm	1575mm
<b>Return (B)</b>	20mm	1430mm	20mm	1437mm
<b>Habanero flow (C)</b>	50mm-	1285mm	50mm	1467mm
<b>Stat pocket (D)</b>		427mm		465mm
<b>Habanero return (E)</b>	50mm	285mm	50mm	323mm
<b>CWE (F1)</b>	20mm	225mm	25mm	267mm
<b>Inlet (F2)</b>	50mm	225mm	50mm	267mm
<b>Weight empty</b>	50kg	-	150kg	-
<b>Weight full</b>	590kg	-	1150kg	-



### RM Cylinders Limited Warranty

RM Cylinders carries the following warranty against faulty materials or a manufacturing fault from the date of purchase;

Domestic household installations 10 YEARS made up of 1 to 5 years full replacement parts and labour, 6 to 10 years full replacement parts only.

Commercial installations 5 YEARS, full replacement parts and labour.

The above terms apply subject to and providing that;

- Any claim follows the process defined within the RM Cylinder installation manual!
- Any labour charges must be pre approved in writing before any work commences and are subject to limitations described within the RM Cylinder installation manual'
- The cylinder has been correctly installed as per RM Cylinder installation manual' and any relevant local standards, regulations and codes of practice in force at the time.
- The cylinder is installed in an accessible location with sufficient clearances to remove and replace the unit without remedial building work.
- It has not been modified in any way.
- It has not been misused, tampered with or subjected to neglect.
- It has only been used for the storage of potable water.
- The cylinder must be connected to water supplies meeting or exceeding guidance values from New Zealand Drinking Water Standards 2008.
- It has not been subjected to frost damage.
- The unit has been serviced annually (invoice evidence required).

### Limitations and Conditions

This limited warranty;

- Is not transferable, and rests with the original householder.
- Does not cover the effects of scale build up and or corrosion
- Waterware Services Ltd. shall in no way be liable for any loss, damage (direct, indirect or consequential), cost or expense suffered or incurred by the purchaser.

Obligations accepted by Waterware Services Ltd. are....

.....in addition to all other rights and remedies had by the Purchaser in law in respect of the valve and does not limit the right the Consumer may have under the Consumers Guarantee Act 1993.

.....subject to the exceptions and conditions previously listed. All expressed or implied conditions, statements or warranties as to the quality or fitness on any purpose of a tap or valve or otherwise are hereby expressly excluded to the fullest extent permitted by law except under conditions and warrants which cannot be legally excluded by law and which are intended in the contract for the supply of the valve by the Trade Practises and any other Act of Law.

We reserve the right to change and alter any specification and / or parts without notice. Any parts changed will perform similar or better functions to the ones they have replaced and we are not liable for any claims made by anyone because of this substitution.