

plumb-mate ::

Stainless Steel Thermal Buffer Tanks



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The plumb-mate range of thermal storage vessels is engineered for high-performance integration with heat pumps, solar thermal, and boiler systems.

Manufactured from high-grade duplex stainless steel and designed for the demanding Australian climate, these tanks provide the thermal mass necessary to ensure system stability and efficiency.

Key Features

Premium Material Construction

Manufactured from Duplex Stainless Steel for superior corrosion resistance

Versatile Installation

Multiple port configurations allow for easy connection to heat source

Designed & Approved to Australian Standards

Watermark certified for safe drinking water applications



Product Technical Data

Model No.	PMBT-100L	PMBT-200L	PMBT-300L	PMBT-400L	PMBT-500L	PMBT-600L
Nominal Capacity (L)	100	200	300	400	500	600
Outer Tank Diameter (mm)	470	560	600	650	700	800
Height (mm)	1045	1312	1572	1800	1822	1604
Inner Tank Material	Duplex Stainless Steel 2205					
Outer Case Material	Galvanised Steel with a painted Silver Gray finish					
Connections	2x 15mm, 1x 20mm, 1x 25mm, 3x 40mm	2x 15mm, 1x 20mm, 1x 25mm, 3x 32mm		2x 15mm, 1x 20mm, 1x 25mm, 3x 50mm		
Max. Working Pressure	700 kPa					
Max. Testing Pressure	1000 kPa					
Insulation	Rigid polyurethane foam					
Insulation Thickness	50mm (*200L model is 45mm)					
Gross Weight (kg)	25	39	60	73	96	105

Installation & Operating Instructions

1. Installation Requirements

This tank must be installed by a licensed plumber in accordance with AS/NZS 3500 and local water authority requirements.

1.1 Pre-Installation Checklist

- **Pressure:** If incoming water pressure is above 700 kPa, a pressure limiting valve (PLV) must be fitted to the incoming supply line.
- **Relief Valve:** A Pressure & Temperature Relief (PTR) Valve must be installed to protect the vessel from over-pressurisation.
- **Scald Protection:** It is highly recommended to install a tempering valve or thermostatic mixing valve on the hot water outlet to prevent scalding or injury.
- **Water Quality:** In order to obtain a sufficient service-life of the buffer tank, It is suggested to use water with a quality that does not exceed the following parameters, chloride 50mg/l, total dissolved solids 600mg/l, magnesium 10mg/l, total hardness 220mg/l, pH 8.5 and not less than 6.5. Water outside of these parameters may affect any future warranty claims.

2. Maintenance & Servicing

Ongoing Service: The entire system should be inspected on a regular basis to ensure adequate function. In the event of the tank not functioning correctly, please make contact with a service technician immediately.

6-Month Test: Where a PTR or EC valve is fitted, manually operate the Stainless Steel lever every 6 months to flush out lime/calcium deposits and ensure the valve is functioning.

Replacement: It is recommended that any fitted PTRs, ECVs or safety relief valves be replaced every 4 years to ensure continued system safety.

3. Warranty & After-Sales

plumb-mate (manufactured by RBM Systems Pty Ltd) warrants this product against manufacturing defects for a period of **two (2) years** from the date of purchase. The warranty is void if the tank is tempered with, incorrectly installed, or used outside of its specified parameters.

For more detailed information, please review the Terms & Conditions of Sale - Buffer & Storage Tanks available on our website.



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