

## Stainless Steel Hot Water Tank

### Water Quality Warranty Exclusions:

The water storage tank is manufactured from marine grade 316 stainless steel, however there are water quality issues which may cause premature failure.

The normal warranty does not cover the effects of sludge/sediment as a result of connection to a water supply from unfiltered or mineral content sources eg. Spring, dam, bore, river, or other.

The standard warranty on the tank will become void if:

Connected to bore water or highly mineralized water systems, and/or if the water stored in the tank exceeds the following characteristics:

A.	Total dissolved solids	600mg/litre or parts per million
B.	Total Hardness	200mg/litre or parts per million
C.	Chloride	250mg/litre or parts per million
D.	Magnesium	10mg/litre or parts per million
E.	Sodium	150mg/litre or parts per million
F.	Electrical conductivity	850S/cm (micro siemens per centimeter)
G.	PH	minimum 6.5 and Max 8.5



### General Information:

Stainless steel has approximately twice the tensile strength of the mild steel used in glass-lined (vitreous enamel) tanks

Stainless steel has a natural barrier against corrosion, can withstand water temperatures up to 100°C and does not require a sacrificial anode for protection. Glass-lined tanks by comparison, can suffer from the glass lining dissolving once the water temperature reaches about 75°C (depending on quality) and expansion & contraction from heating cycles can cause hairline cracks in the glass lining, permitting the water to come in contact with the mild steel tank and for corrosion to occur. For these reasons, glass-lined tanks have a sacrificial anode of aluminium/magnesium designed to corrode in preference to the tank. Once the anode is corroded, and if it is not replaced quickly, the life of the tank is greatly reduced. Stainless steel is much more suited to solar water heaters as under extreme conditions, Solar water heaters can generate water temperatures of over 90°C.

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