

## Technical Data – 100 Litre Water in tube

This system is well suited to low cost developments and offers excellent solar conversion efficiency at a fraction of the cost of conventional solar water heaters.



<b>Model</b>	<b>ITS-1800/58-10LP</b>
<b>Overall height</b>	1150mm
<b>Overall length</b>	1820mm
<b>Overall width</b>	860mm
<b>Absorber area</b>	0.8m <sup>2</sup>
<b>Structure material type</b>	SUS201 Stainless Steel 1.2mm thickness
<b>Angle type</b>	20°
<b>Weight (empty)</b>	35kg
<b>Weight (full operating)</b>	135kg
<b>Over all capacity w/tubes</b>	100L
<b>Tank only capacity</b>	85L
<b>Exterior tank diameter</b>	470mm
<b>Exterior tank material type</b>	SUS304-2B Stainless Steel Food Grade
<b>Exterior tank material thickness</b>	0.4mm
<b>Interior tank diameter</b>	360mm
<b>Interior tank material type</b>	SUS304-2B Stainless Steel Food Grade
<b>Interior tank material thickness</b>	0.5mm
<b>Sealing material type</b>	Silicone gel ring
<b>Intake pipe diameter</b>	1/2"
<b>Outlet pipe diameter</b>	1/2"
<b>Vent valve diameter</b>	1/2"
<b>Tank corrosion protection</b>	Magnesium rod
<b>Electrical backup element</b>	2kW
<b>Number of tubes</b>	10
<b>Tube type</b>	ITS 58/1800 - 1.6 or 2mm thickness
<b>Tube material type</b>	Al-N-Al
<b>Absorptive coefficient of coat</b>	≥92%
<b>Emissivity coefficient of coat</b>	≤7%
<b>Tube material</b>	Borosilicate glass 3.3
<b>Insulation material type</b>	polyurethane foam
<b>Insulation thickness</b>	55mm
<b>Quantity per 20 feet container</b>	73
<b>Quantity per 40 feet container</b>	146

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