



wind, solar, motion



- 1 Insulation: polyurethane foam
- 2 Inner cylinder: AISI 316L
- 3 Outer shell: galvanized steel
- 4 Heat pipe in contact with aluminum fin
- 5 End protector: nylon 6
- 6 Foot: stainless steel
- 7 Frame: profile aluminum
- 8 Reflector: flat plate diffuser
- 9 Side ends: metallic
- 10 Relief valve

Introduction

The WSM solar water heaters are close-coupled solar water systems made of all-glass evacuated tube collectors with heat pipes, which are ideal for use in small buildings, houses and other applications. The WSM solar water heaters can be used together with an electric booster element, thus providing hot water even on low-irradiance days. The WSM solar water heater is available in several sizes, depending on your hot water requirements.

Operational Principle

The WSM solar water heaters are all-glass evacuated solar domestic water systems combined with heat pipes. The selective coating in the inner cover of the evacuated tubes ensures high energy absorption and low heat radiance losses, which converts solar energy into heat energy and transfers this energy to the heat pipe by an aluminum fin. The liquid in the heat pipe changes into vapor and rises to the condenser. The heat conducts away to the water inside the tank and the vapor in the heat pipe again becomes liquid, returning to the base of the heat pipe. This continuous circulation transfers heat from the heat pipe to the cold water in the tank. This process will continue as long as the sun is heating the collectors.

**For enquires, please contact Alexander Richter
0826633515 / Skype CoW_Tech / Alex@wsmp.co.za**

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MODELS	JR-138	JR-158	JR-178	JR-208
Volume of storage tank	138 L	158 L	178 L	208 L
Tube	SL-I-1500	SL-I-1500	SL-I-1500	SL-I-1500
Number of tubes	18	21	24	28
Glass tube OD/inner heat pipe OD	Ø47mm/5mm			
Storage tank material	Outer shell: aluminum/zinc coated steel sheet, 0.6 mm thick			
	Inner cylinder: SS 316L / SS304, 1.2 mm thick			
Insulation	Polyurethane foam with thickness of 45 mm			
Reflector	Flat plate diffuser, aluminum			
Frame	Aluminum profile			
Cover	Metallic			
Max. pressure	0.45 MPa	0.45 MPa	0.45 MPa	0.45 MPa
Aperture area, m ²	1.8	2.1	2.4	2.8
Net weight, kg	42	47	52	57
Collector frame angle, standard fixed	45°	45°	45°	30°
Typical daily efficiency	≥58%			
Heat loss coefficient, w/m ² °C	9.5 W/m ³ K			
Inlet/outlet connections	1/2"			
Optional electric booster	1.5 kW			2 kW

SOLAR WATER HEATERS

Product Code	Description	Electrical Element	Tank	Pressure	Retail
39074	JR-158 complete	Yes	158L	MP	R 11,244
39075	JR-208 complete	yes	208L	MP	R 14,865

Delivery and Installation not included.
Ex vat.

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