



WOMBAT
by Apricus

Technical Information

Non-pressurized Thermosiphon Solar Water Heater

Int Version - October 2018

Product Introduction

Wombat vented thermosiphon solar water heaters are a great choice for consumers who want a cost effective hot water solution.

When mounted on the roof the house is provided with gravity fed hot water. In high solar radiation areas, Wombat solar water heaters can be the sole energy source for hot water supply. In cooler climates Wombat systems can provide pre-heated hot water which saves on traditional energy costs such as electricity or gas. The tank has an optional electrical heating element for boosting for when the water is not hot enough.

Basic Operation

Evacuated tubes absorb sunlight and heat up the water inside. The warmer water rises into the storage tank while cooler water in the bottom of the tank flows down to the bottom of the tubes to repeat the cycle. This thermosiphon process occurs throughout the day, gradually heating up the water in the tank.

When hot water is used it drains from the bottom of the tank. The tank is slowly refilled with cold water, either manual via opening a cold water filling tap, or automatically if a optional small header tank is fitted to the top of the tank.

Features

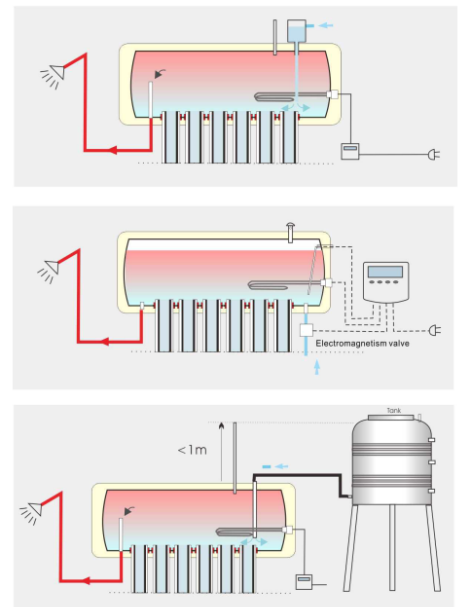
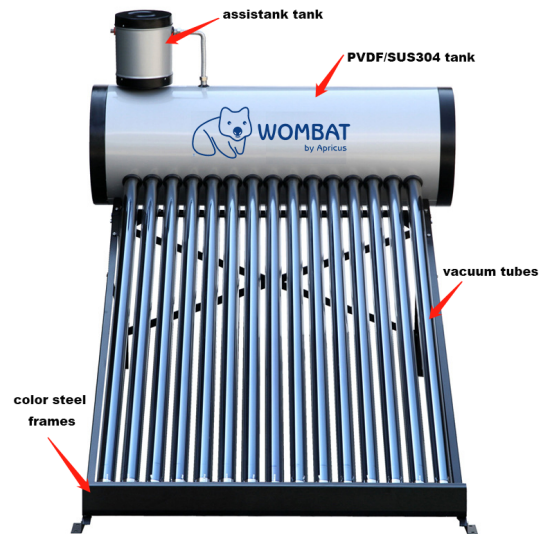
- Economical solar water heating solution
- Food grade 304 stainless steel inner tank
- Triple layer absorber evacuated tubes
- Well insulated solar storage tank
- Reinforced tank welding design
- Easy plug-in installation
- Low maintenance operation
- Anodized aluminium supporting frame
- Comprehensive limited warranty:
 - 10 year on evacuated tubes
 - 3 year on complete system
 - 1 year on electrical heating elements

Materials of Construction

Evacuated Tubes:	Borosilicate 3.3 Glass
Absorber:	Cu-SS-AL/N or AL-N-AL coating
Inner Tank:	Food grade 0.4mm SUS304
Outer Tank:	SS304 or PVDF coating tank
Insulation:	High density polyurethane 50mm
Mounting Frame:	Galvanized steel 1.5mm/Aluminum alloy SS201 Fasteners
Max. Pressure:	0.5 bar

Optional Accessories

Electric Heating Element, Mg anode & Check Valve



Part Code	Evacuated Tube			Water Tank			Loading Qty (sets)	
	Size	No. (pcs)	Aperture Area (m ²)	Dimension (mm)	Insulation (mm)	Capacity (L)	20GP	40HQ
WB-SS/SP-150L-15	Φ58 X 1800	15	1.42	Φ460 X 1240	50	150	50	124
WB-SS/SP-200L-20	Φ58 X 1800	20	1.89	Φ460 X 1615	50	200	39	96
WB-SS/SP-240L-24	Φ58 X 1800	24	2.27	Φ460 X 1915	50	240	34	83
WB-SS/SP-300L-30	Φ58 X 1800	30	2.84	Φ460 X 2355	50	300	28	68

Sustainable HOT WATER Solutions, Delivered by APRICUS

Apricus Solar Co., Ltd
service@apricus.com www.apricus.com