



WOMBAT
by Apricus

Technical Information

ET&HP Solar Water Heater

International Version
March 2018

Product Introduction

Wombat heat pipe solar water heaters are an all-in-one solar water heating system. They are ideal for supplying pressurized hot water to residential customers who require a sustainable, easy to install, high efficiency and reliable solar hot water solution.

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 traditional electric or gas energy costs. The tank has an optional electrical heating element for boosting.

Basic Operation

Evacuated tubes absorb sunlight and convert it to usable heat. A vacuum between the two glass layers insulates against heat loss improvement efficiency. The heat transfer fin helps to transfer heat from the evacuated tube to the copper heat pipe. The heat pipe contains a small amount of liquid which forms steam when heated, rapidly transferring the heat up to the water in the storage tank.

Features

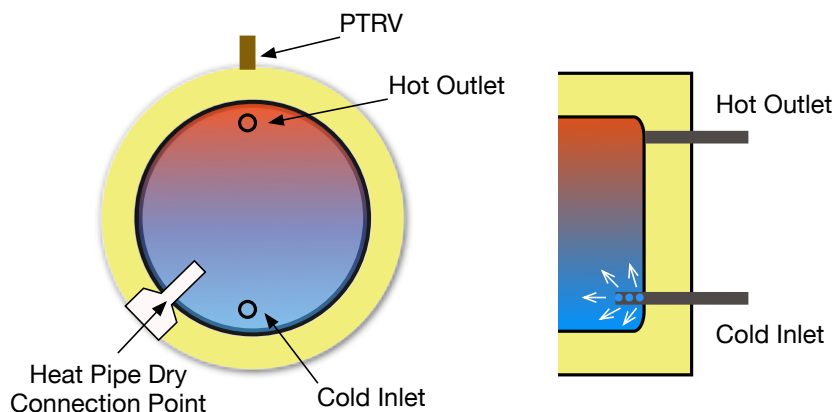
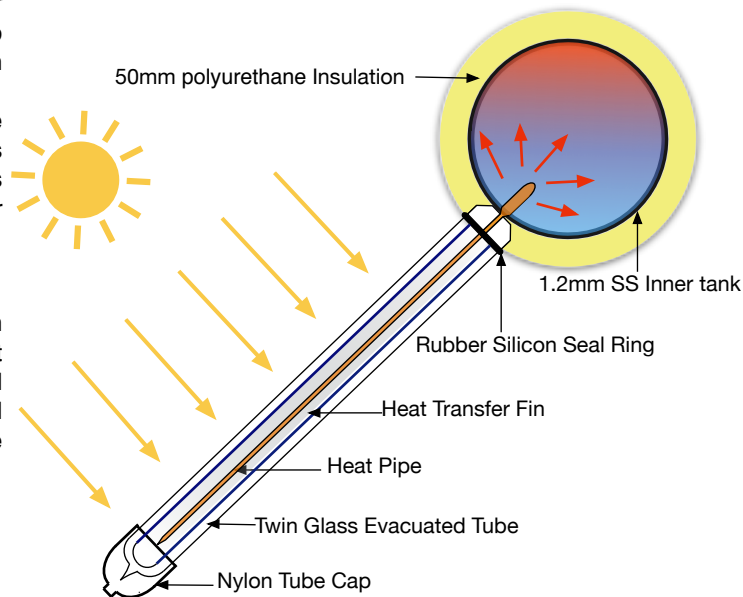
- Twin glass evacuated tubes (passive solar tracking)
- Freeze resistant heat pipes
- Well insulated solar storage tank
- Easy plug-in dry connect installation of heat pipes
- 3 year limited warranty on storage tank
- 7 year limited warranty on heat pipes
- 7 years limited warranty on mounting frames
- 10 year limited warranty on evacuated tubes
- Efficient performance at high differential temperatures

Materials of Construction

Evacuated Tubes:	Borosilicate 3.3 Glass
Absorber:	Cu-SS-AL/N
Heat Pipes:	High purity copper
Heat Transfer Fins:	Aluminium
Inner Tank:	Food grade 1.2mm SUS304
Outer Tank:	PVDF coating tank
Insulation:	High density polyurethane 50mm
Mounting Frame:	6065 Anodized Aluminium 1.5mm 304 SS Fasteners
Max. Pressure:	6 bar

Optional Accessories

Electric Heating Element, PTRV, 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	40GP	40HQ
WB-HP-SP-130L-15	Φ58 X 1800	15	1.42	Φ460 X 1330	50	130	52	112	130
WB-HP-SP-170L-20	Φ58 X 1800	20	1.89	Φ460 X 1705	50	170	42	88	98
WB-HP-SP-200L-24	Φ58 X 1800	24	2.27	Φ460 X 2005	50	200	35	73	86
WB-HP-SP-250L-30	Φ58 X 1800	30	2.84	Φ460 X 2455	50	250	28	62	68

Sustainable HOT WATER Solutions, Delivered by APRICUS

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