

**WOMBAT**  
by Apricus

# Technical Information

## FTS Solar Water Heater

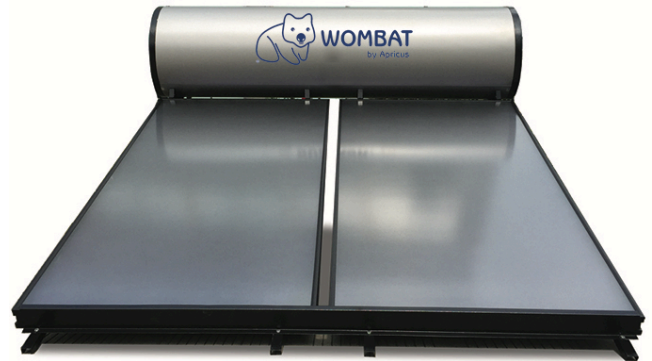
International Version  
November 2018

### Product Introduction

Wombat FTS solar water heater is a thermosiphon solar water heater that incorporates a high efficiency heat pipe flat plate collector and mains pressure stainless steel storage tank. An electric element provides backup heating to ensure hot water all year round.

### Basic Operation

Flat plate absorbers absorb sunlight and convert it to usable heat, which is transferred to the heat pipes welded to the underside of the solar absorber sheet. The heat pipes contains a small amount liquid which forms steam when heated, rapidly transferring the heat up to the header pipe which is connected to the storage tank. Water in the storage tank gradually circulates through the header pipe heating up the tank throughout the day.



### Features

- High efficiency heat pipe type flat plate collector
- Anti-freeze design
- Well insulated solar storage tank
- Thermosiphon or pump forced compatible

### Main Materials of Construction

#### Flat Plate Collector

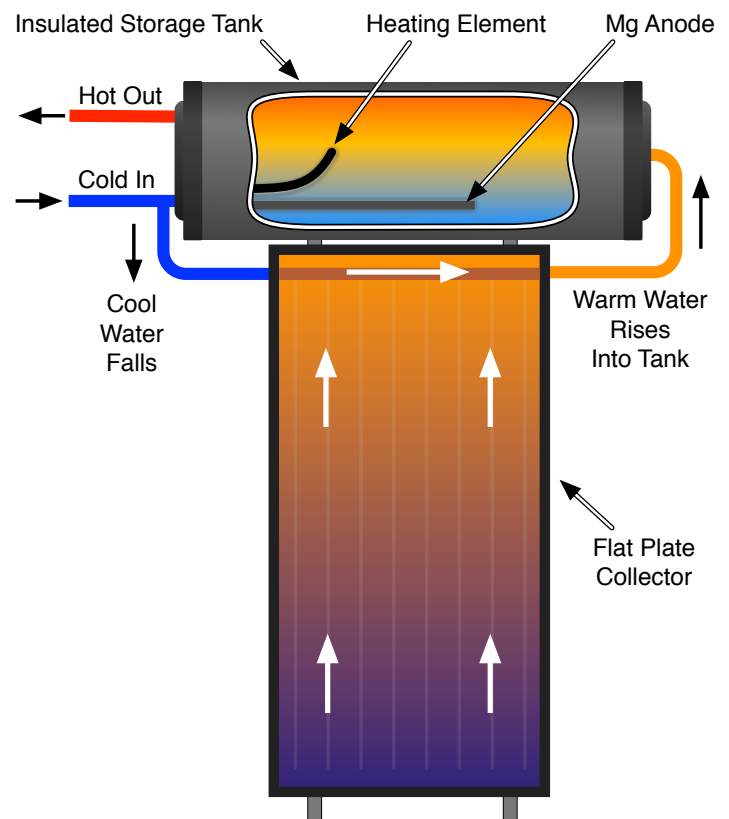
Absorber:	0.3mm BlueTec solar AL
Absorber emittance:	5%±2%
Absorber absorption:	95%±2%
Header:	ø22 x 0.8mm
Heat pipes:	14(head)x6(thickness)x1700(length)mm
Heat pipe spacing:	110mm (total of 8 heat pipes)
Glass:	3.2mm 92% Transmittance
Collector Body:	Anodized AL (black)
Insulation:	20mm PF Resin sides 20mm rock wool bottom
Back Sheet:	0.4mm Galvanized steel sheet

#### Storage Tank

Inner Tank:	Food grade SS304 (SS316 optional)
Outer tank:	PVDF coated
Insulation:	High density polyurethane 50mm
Electric Heating Element:	1.5kW
Max. Pressure:	6bar
Mg rod & PTRV:	Provided

#### Supporting Frame

Galvanized steel 1.5mm, SS304 Fasteners



Part Code	Flat Plate Collector			Water Tank			Loading Qty (sets)	
	Size	No. (pcs)	Aperture Area (m <sup>2</sup> )	Dimension (mm)	Insulation (mm)	Capacity (L)	20GP	40HQ
WB-FTS-150L	1000x2000	1	2	Φ550 X 1080	50	150	51	126
WB-FTS-300L	1000x2000	2	4	Φ550 X 2180	50	300	26	63

**Sustainable HOT WATER Solutions, Delivered by APRICUS**

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