

- Free hot water from the sun
- Ultra fast heating - Titanium Absorber
- Enhanced Energy retention
- Built to last
- Hot water all year round
- Prolonged hot water temperature
- Pressurised solar tank

- Air tight seal design
- Minimum maintenance
- Pollution free
- Reliable and efficient
- Meets international quality and safety standards
- Reliable in-house before after and sales service



## COMPANY INTRODUCTION

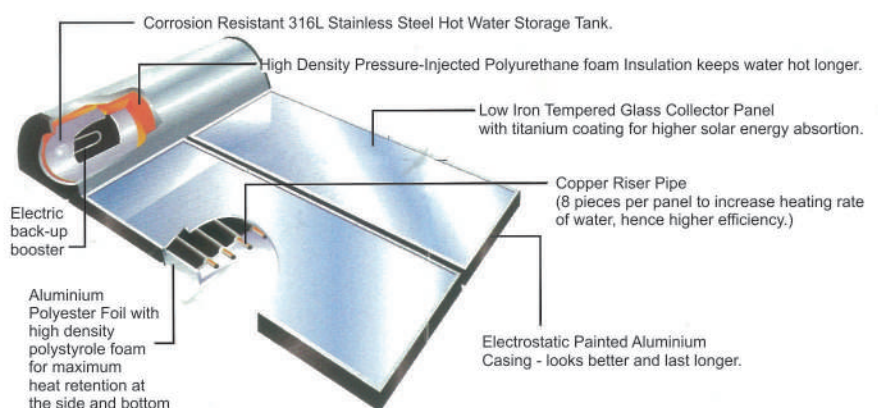
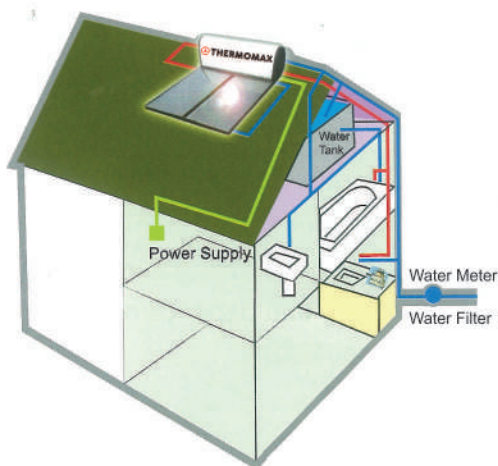
Alpha Entity (M) Sdn. Bhd. since 2002 we offers complete Solar Thermal Solutions for residential industrial and commercial applications. Our technology is the original and best flat plate/evacuated collector on the market for over 20 years.

Our comprehensive professional consultancy services and engineering experience of project management ensures the high quality of the system design and professional engineering installation and excellent performance of the system.

**THERMOMAX** is the brand for solar system that we have been use for over 20 years.

**THERMOMAX** Thermosiphon Solar System is an incredibly simple and efficient way to generate domestic hot water. The highly efficient flat panel collector transfer solar energy to the heat water. The water then circulates naturally through the storage cylinder. No energy is required to pump the water.

## PIPING SYSTEM



**Blue Line**

Existing cold water piping systems in the house

**Red Line**

Hot water outlet to be designed part in the house



# TECHNICAL SPECIFICATIONS

## TANK SPECIFICATIONS

Total Capacity	300L   400L
Overall Length	2439mm   2439mm
Overall Width	2286mm   2650mm
Overall Height	500mm   500mm
Outer Tank Diameter	500mm   500mm
Outer Tank Length	2150mm   2500mm
Weight Empty (Total)	90kg   110kg
Weight Full (Total)	390kg   510kg
Nominal Working Pressure	500kpa
Cylinder Test Pressure	1500kpa
Relief Valve Settings	850kpa
Outer Cylinder Case Material	0.7mm Stainless Steel
Cylinder Material	1.5mm 316L Stainless Steel
Welding Method	Laser Welding
Tank Insulation	Polyurethane
Thermostat	Sunvic
Polyurethane Foam	Poly & Isocyanate Mix
Method High	Pressure Injection

## FLAT PLATE COLLECTORS

Dimensions (mm)	1988x1041x90
Casing	Electrostatic Painted Aluminium
Weight	37.2kg
Gross Area	2.07m <sup>2</sup>
Aperture Area	1.92m <sup>2</sup>
Absorber Area	1.89m <sup>2</sup>
Absorber Material	Tinox-Titanium
Absorptance / Emittance	1.95 / 0.04
Welding Method	Laser Welding
Heat Carrier Volume	1.07L
Diameter of Absorber Tube	8 / 18mm

## VACUUM TUBES COLLECTORS

Dimensions (LxWxH)	2005 x 2196 x 136 mm
Peak Output	2014 W
Aperture Area	2.84m <sup>2</sup>
Gross Area	4.4m <sup>2</sup>
Gross Dry Weight	95 kg
Fluid Capacity	790 ml
Flow Rate	2 L/min (max 15L/min)
Max Operating Pressure	800 kPa / 8 bar



# Your Trusted Solar Partner

## RESIDENTIAL, INDUSTRIAL AND COMMERCIAL APPLICATION



**Konsortium Peka Sdn Bhd in Pahang**  
(a) 156 Solar Collector with 15000 litres Calorifier Tank.  
(b) Solar PV System 154.7 loop 340 sets PV modules.



**NB Poultry Processing Industries Sdn Bhd in Johor**  
258 Solar Collector with 25000 litres Calorifier Tank.



**Ever Delicious Sdn Bhd in Melaka**  
30 Solar Collector with 4000 litres Calorifier Tank



**Miwa Manufacturing Sdn Bhd in Kuala Selangor**  
40 Solar Collector with 4000 litres Calorifier Tank



**Holiday Inn Hotel in Melaka**  
60 Solar Collector with 12000 litres Calorifier Tank



**Muslim Kitchen Sdn Bhd in Subang**  
900 Solar Evacuated Tubes with 8000 litres Calorifier Tank



**Temasek Hotel in Melaka**  
1800 Solar Evacuated Tubes with 20000 litres Calorifier Tank



**Ameen Product Sdn Bhd in Teluk Intan**  
300 Solar Evacuated Tubes with 2000 litres Calorifier Tank



**De Baron Resort in Langkawi**  
450 Solar Evacuated Tubes with 4000 litres Calorifier Tank



**Manipal College in Muar**  
Student Shower Facilities



**Solar Drying System in Perlis**  
450 Evacuated Tubes



**JDT Stadium in Johor**  
Heat Pump System

### ALPHA ENTITY (M) SDN BHD

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