

THERMOSYPHON SYSTEM

OPEN LOOP - PRESSURIZED

The Heliodyne thermosyphon open loop system are cost-effective solar hot water systems designed for warm and tropical area. They system operates based on the principle of natural convection and requires no moving parts or active control, therefore, needs very little maintenance and is easy to install.

The storage tank is enameled and equipped with a sacrifice anode, providing enhanced protection to the tank, and an optional electrical heating element.

All collectors and storage tanks are 100% factory tested to ensure they are leak free.

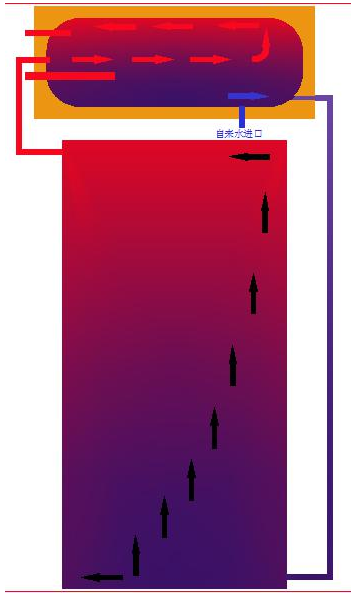
The Heliodyne series are suitable for both residential and commercial systems in warm area.










PRODUCT BENEFITS

- Collector and water storage tank highly connected into one piece, looks concise and beautiful, high-quality and cost-effective.
- One collector for all system sizes
- High efficient heat transfer at the absorber Tempered solar safety glass
- The structure is "Germany Style" design, tube connection is easy and convenient.
- Modular system for easy transport and installation
- Mounting sets available flat roof installation (30° and 45°) as well as for parallel installations on pitched roofs

TECHNICAL SPECIFICATIONS



PART LIST AND COMPONENTS IDENTIFICATION			
	THERMOSTATIC MIXING VALVE -(ASSE 1017 COMPLIED)		
	Air Vent Valve		
	P/T VALVE		
	BOILER DRAIN		
	ISOLATION VALVE "NO"		ISOLATION VALVE "NC"
	GATE VALVE		

Collector	150	200	300
Overall area [m ²]	2.0	2.5	4
L x W x H [mm]	2000x1000	1525x800	2000x1000
Weight collector empty [kg]	28	18	28
Number of collectors	1	2	2
Absorber sheet	Black anodized selective coating		
Emission [%]	94 / 12		
Connections	blank Ø 22 mm		
Glass	3.2 mm tempered solar safety glass		
Transmittance of glass [%]	91.7		
Insulation	30 mm glass wool		
Tank	150	200	300
Weight tank [kg]	59	63	81
Capacity tank [l]	150	200	300
Insulation tank	Polyurethane foam 50mm		
compressive strength	0.7Mpa		
Connections tank	3/4" female thread - primary circuit		
Heat transfer medium	water mixture		
Material tank	Enamel		
Tank wall thickness	2.5mm for 300L tank		
System	150	200	300
Weight of overall system (empty) [kg]	104	133	171
Weight of overall system (filled) [kg]	254	333	471
Heating rod (optional)	Standard		
Mounting material	aluminium alloy		