

## Flat Collector Solar Water Heater System

### HP integrative non-pressurized series



Hollandia HP Series thermo siphon system adopts the black anodized flat plate solar collector and solar storage tank with SUS304 as inner tank material. Both parts connect to each other directly. According to the thermo siphon principle, the water in tank is heated in continuous circulation.

#### ➤ Product Features

- Stylish slim design
- Thermo siphon operation minimizes maintenance
- Electric booster models available
- Inner tank with vitreous enamel or SUS304
- Collector absorber with black chrome coating
- Unpressurized system
- Reliable, low maintenance operation
- Flexible options for collector and tank capacity
- Enhanced protection for maximum life
- Easy mounting and installation.

#### ➤ Product Benefits

- Save from 55% up to 85% of your water heating energy consumption
- Reliable, low maintenance operation
- Reduced energy use saves up to 3.2 tons of CO2 emissions every year (300L system)
- Strong design to withstand extreme weather conditions
- Easy mounting and installation
- Work life over 15 years

## ➤ Technical Parameters

Model No.		HP100	HP150	HP200	HP300
Water Tank	Circulation type	Non-pressurized open loop	Non-pressurized open loop	Non-pressurized open loop	Non-pressurized open loop
	Tank capacity	100L	150L	200L	300L
	External dimension	Φ460*1090mm	Φ525*1150mm	Φ525*1620mm	Φ525*2180mm
	Outer tank material	Aluzinc	Aluzinc	Aluzinc	Aluzinc
	Inner tank material	SUS 304-2B	SUS 304-2B	SUS 304-2B	SUS 304-2B
	Max. working pressure	0 Mpa	0 Mpa	0 Mpa	0 Mpa
	Electric booster	1.5kw	1.5kw	1.5kw	2.0kw
	Supply water tank	5L	8L	8L	8L
Solar Collector	Dimension L x W x T	2000 x 1000 x 80mm	2000 x 1000 x 80mm	2000 x 1250 x 80mm	2000 x 1000 x 80mm
	Overall area	2.0 m <sup>2</sup> x 1pcs	2.0 m <sup>2</sup> x 1pcs	2.5 m <sup>2</sup> x 1pcs	2 m <sup>2</sup> *2pcs
	Absorber material	Al. strip	Al. strip	Al. strip	Al. strip
	Absorber coating	Selective black chrome	Selective black chrome	Selective black chrome	Selective black chrome
	Welding	Laser welding	Laser welding	Laser welding	Laser welding
	Cover material	Tempered textured glass	Tempered textured glass	Tempered textured glass	Tempered textured glass
	Frame material	Anodized aluminum alloy	Anodized aluminum alloy	Anodized aluminum alloy	Anodized aluminum alloy
	Insulation material	Fiberglass	Fiberglass	Fiberglass	Fiberglass
	Piping connector	Φ22			
Mounting Bracket	Material	Galvanized steel			
	Bracket style	A: Flat roof    B: Tilted roof			
Connection & Controller	Circulation pipe material	Stainless steel corrugated pipe(Φ22mm)			
	Compression fittings	Φ22mm*G3/4"			
	Controller	Automatically control the electric booster and monitor the water temperature			
Weight	Weight of overall system (empty) [kg]	90	110	135	180
	Weight of overall system (filled) [kg]	200	270	345	490

## Working Diagram

Under normal operating conditions the potable water within the storage tank is heated by the solar collectors. For example, in an open circuit system where the household hot water is in the collector circuit, cold water is pushed downwards via the long external pipe from the storage tank to the bottom of the solar collector. As the water is heated in the absorber by the sun, it rises to the top of the collector then travels through the short external pipe into the storage tank. In the evenings or when raining, the circulation stops and if the water is not hot enough, the electric heater can work to ensure you always have hot water on tap.

