

Technical specification

System specification	S-series		SW-series	
Model	S-60	S-80	SW-60	SW-80
Tank capacity	60 gal	80 gal	60 gal	80 gal
Solar collector quantity	20 pcs	24 pcs	20 pcs	24 pcs
Solar absorption area	3.21 m ²	4.02 m ²	3.21 m ²	4.02 m ²
Suitable for family size	4-5 persons	6-8 persons	4-5 persons	6-8 persons
Hot water supply	Inner Copper within hot water storage tank			
Inner coil diameter	15mm(1/2")			
Inner coil length	25 meter			
Total weight (dry)	40kg	50kg	40kg	50kg
Operating weight	270kg	410kg	270kg	410kg
Foot print dimension	1.8mD x 1.7mW x 1.0mH	1.8mD x 2.0mW x 1.0mH	1.8mD x 1.7mW x 1.0mH	1.8mD x 2.0mW x 1.0mH
Frame material	Aluminum			
Hot water temperature	60 ~ 70 deg C (Outlet) / 80 ~ 99 deg C (Hot Water Tank)			
Heat preservation	65 - 70 hours			
Initial start up time for heating	4 ~ 5 hours		3 hours	

Hot water storage tank

Type	Fully insulated and non-pressurised type
Inner tank material	1.2mm thick Stainless Steel 304, food grade
Outer tank material	Stucco Aluminium
Tank insulation	60mm Polyurethane Foam
Operating pressure	Up to 6 Bar

Solar collector

Glass material	Double layer high borosilicate glass with low emission coating
Dimension of Solar collector	58mm dia. X 1.8M Length
Coating material	ALN / AIN-SS/CU
Heat insulation	Vacuum layer
Accessories	Back-up Heater, Auto-control Filling Diaphragm Valve, Heat Relief Device
Back-up heater specification	CSA approved, 220 VAC, single phase, 2.4 kw, 10A

Note

It is customer's responsibility and at his/ her own cost to assess & ascertain the property conditions in advance, e.g. existing piping system, roofing structure, loading capability, etc as well as the site preparation, e.g. roofing reinforcement, hot water piping up to ceiling level with point-to-point connected, power supply, etc. if any required prior installation of the product. The company and its sales persons/ dealers can only advise the customer at level best effort base on normal circumstances as property conditions, hot water usage, site preparation required may vary from individual-to-individual basis. Customer should make the purchase at their own decision and seek advice from plumbing/ roofing specialist if needed. Kindly enquire for further details on our Standard Installation scope of work and warranty.

Advancing Lifestyles

Hydro One is a Malaysian based company that produces a diverse range of home living products and solutions. From design to distribution, Hydro One has contributed to the contemporary lifestyle in many homes. Our products include water filtration and treatment systems, fiberglass swimming pool and our flagship product, Solarwave.

Project References

Semi-D Houses Project at Bandar Sri Sendayan by Matrix Concept Berhad
64 units 60 gal (model S-60) Solarwave



Anggun 1 Project at Alam Nusantara, Sek. U13, Shah Alam by PKNS
96 units 60 gal (model S-60) Solarwave

Bandar Setia Alam (Phase 11) by SP Setia Phase EDULIS, RETUSA, DECORA, EXIMIA
248 units 60 gal (model S-60) Solarwave



Park Villa (Phase 3) Project at Sunway Eastwood by Sunway City
66 units 60 gal (model S-60) Solarwave

The Reed Superlinked Houses Project at Lake Heights by YTL & KWSP
285 units 60 gal (model S-60) Solarwave



Semi-D & Bungalow Project at Lenang Heights by Sunway City (JB)
112 units 60 gal & 80 gal SW-series Solarwave

Nusa Duta Semi-D & Bungalow Project at Johor Bahru by UJM Land
56 units 80 gal (model SW-80) Solarwave



Casa Sutra Zero Lot Bungalow project at Sek. U13, Setia Alam
38 units 60 gal (model S-60) Solarwave

Quality Assurance



Solarwave was created from intense research, design and testing. Existing water heating systems were studied, modified and improved, and multiple prototypes were created and tested before the perfect design was determined. Its outstanding quality and performance won us the 2009 Quality Award from Homedec, by fulfilling the criteria of functionality, design, price and eco-friendliness. Besides Solarwave, all our other products were created with equal attention to modern lifestyle requisites.

Hydro One's products are used worldwide in over 40 countries, spanning from South East to East Asia, Europe, South America, the Middle East, Africa and Oceania.

HYDRONE

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The Heat Is On,
Always!



Hot Water, The New Way

Innovated from the best technology from the US, Solarwave uses unique **Evacuated Tube and Heat Pipe** technologies to adeptly harness the power of the sun and provide you with quick, continuous supply of hot water. Embodied within its design are efficiency and sustainability, pre-requisites for contemporary home living.

Absorbs more with wider surface & better insulation

The solar collector consists of two layers of glass, with vacuum insulation in between for heat loss prevention. Sunlight penetrates through the outer layer and is absorbed by the inner layer coated with 3 layers of low emission, high absorption material (Al-N/Al).

Heats better when the hot & cold don't mix

Water flows through an Inner Copper Coil traveling within the Hot Water Storage Tank and is heated along the way without mixing with the existing hot water. In short, a more efficient heating system.

Lasts longer when there's no pressure

No pressure is built-up within the Hot Water Storage Tank and makes the system life span lasts longer.

10 years



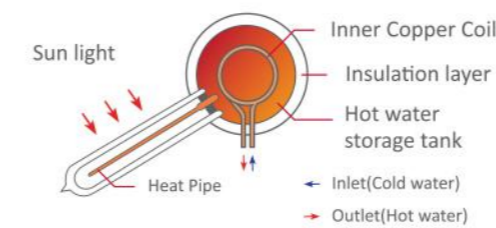
Products should be built to last and that's how we built ours. All Solarwave products come with a 10-year warranty and can last for more than 15 years.



Advanced Design, Better Heating

SW Series - The Heat Pipe System

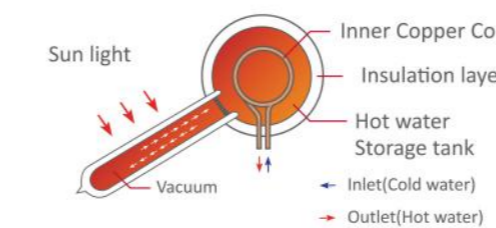
- The only solar collector design that has been proven more efficient in heat absorption.
- In each tube, a copper core (Heat Pipe) transmits the absorbed heat instantly into the Hot Water Storage Tank to heat the water within.
- The Heat Pipe within the tube comes in contact with a fully enclosed, manifold build inside the Hot Water Storage Tank. The solar collector and Heat Pipe doesn't come in direct contact with the water, ensuring durability.



SW - series
Heat Pipe System

S series - The Evacuated Tube System

- Water passing through the evacuated tube is heated instantly and, in turn, heats the water inside the Hot Water Storage Tank.
- Heating has been proven to be faster than any conventional system.
- The Evacuated Tubes are durable and guaranteed to last, as proven by SIRIM pressure test.



S - series
Evacuated Tube System

The Hot Water Storage Tank

The tank is of a most unique design. An Inner Copper Coil runs inside it and incoming water is heated as it passes through the 25m length coil. The coil allows for the separation of cold and hot water, ensuring consistent temperature and continuous hot water supply even throughout the night.

Equipped with a patented valve technology to control water filling, preventing pressure build up. Therefore, the chance of water leakage is virtually zero.

Appreciate The Difference



Heat Exchange
energy transfer system



Thermosyphone Principle

The solar collector is of a tubular design, providing wider surface area for solar energy absorption.

The solar collector is often made from flat panels.

Cold water flows through an inner coil which passes through the hot water tank, and is heated instantly.

Hot water is drawn directly from the hot water tank, mixing with the existing hot water supply. The water temperature drops, making it inconsistent during evening.

Uses a heat transfer mechanism to enable a continuous supply of hot water.

Continuous adding of cold water to the hot water tank limits hot water availability at any one time.

An additional appendage, the water filling valve, controls the water inlets and when temperature reaches 90-100°C, the excess heat evaporates via an Air Relief to maintain consistent temperature in the tank. Hence, the hot water tank functions under normal conditions without water feed or heat pressure.

The hot water tank is constantly under pressure from water feed and heat. Cracks and leakages are highly probable.

Tested Quality and International Standards



* accreditation and certification obtained by approved vendor of solarwave solar water heater.



HYDRONE



Hydro One In-house water temperature simulation test.

Full Type Test by SIRIM in compliance to Electrical Appliances Safety Regulation with Suruhanjaya Tenaga Certificate of Approval. (Standard IEC 60335-1 & 2:2015 and MS1597-2-21:2015)