



# Water Appliances Collection

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### 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

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

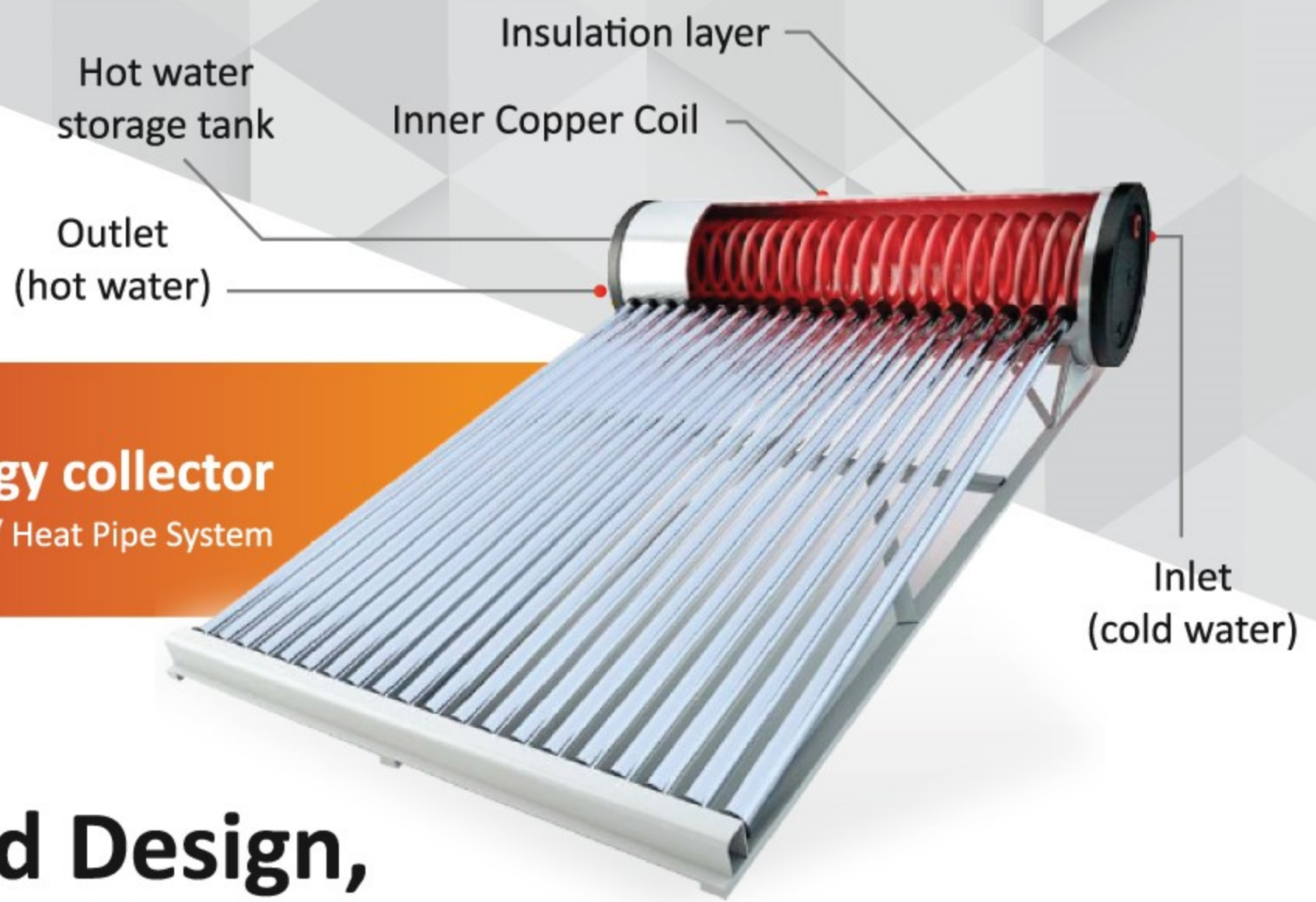


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Products should be built to last and that's how we built ours. All Solarwave products come with a 2 years guarantee + 8 years warranty and can last for more than 15 years.





## Solar energy collector

Evacuated Tube / Heat Pipe System

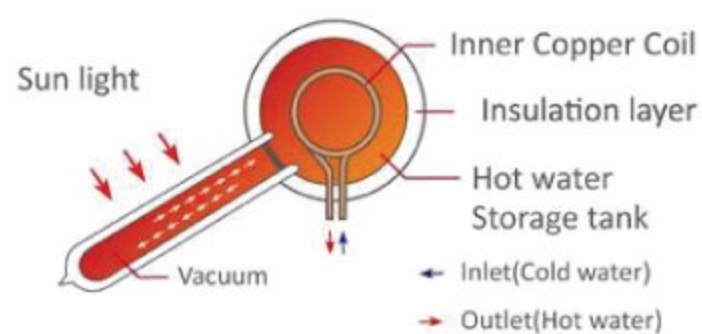
# Advanced Design, Better Heating

### S series – The Evacuated Tube System

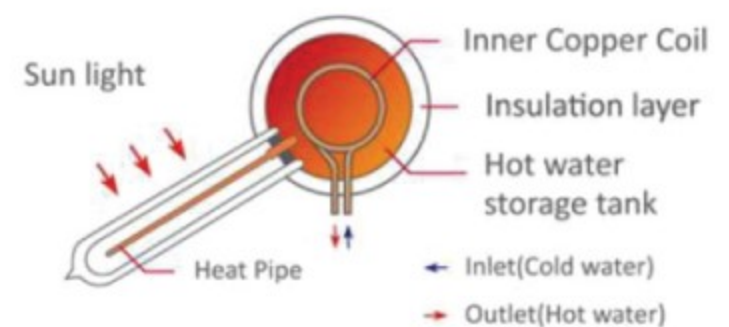
- Water passing through the evacuated tube is heated instantly and, in turn, heats the water inside the Hot Water Storage Tank.
- Heating has been proven to be faster than any conventional system.  
Hot Water Storage Tank to heat the water within.
- The Evacuated Tubes are durable and guaranteed to last,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

### 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.



**S - series**  
Evacuated Tube System



**SW - series**  
Heat Pipe 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



## Conventional Systems



### Heat Exchange energy transfer system

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

Cold water flows through an Inner Copper Coil which passes through the Hot Water Storage Tank, and is heated instantly

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

An additional appendage, the Assistant Tank, 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 Storage Tank functions under normal conditions without water feed or heat pressure

### Thermosyphone Principle

The solar collector is often made from flat panels

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

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

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

## Tested Quality and International Standards



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



# Technical Specification

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 <sup>2</sup>	4.02 m <sup>2</sup>	3.21 m <sup>2</sup>	4.02 m <sup>2</sup>
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 temperture	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	SIRIM approved, 220 VAC, single phase, 2.8 kw, 12A

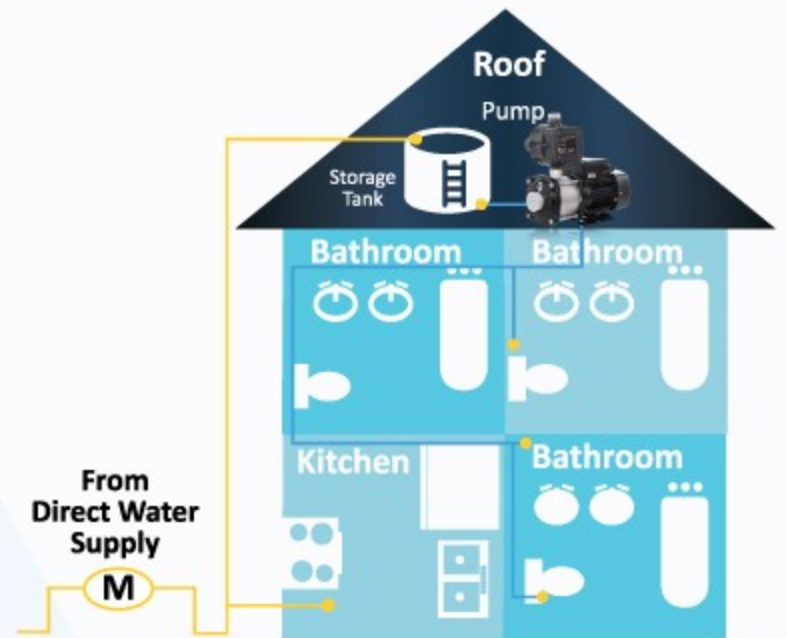
### Note

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.





- 01** Automatic start-stop when tap is opened/ closed.
- 02** "Dry-running Protection" -pump will stop if water tank is empty.
- 03** Non-corrosive & rust-proof Stainless Steel Impeller.
- 04** Intelligent Auto Pressure Controller producing consistent pressure.
- 05** Ideal for Rain Shower Head.
- 06** Quiet with extremely low noise level.



## Technical Specifications

Model	Maxflow 3-30	Maxflow 3-40	Maxflow 4-40
Power	0.37kW / 0.55HP	0.55kW / 0.75HP	0.75kW / 1.0HP
Impeller	3	3	3
Port Size	1" X 1"	1" X 1"	1 – 1/4" X 1"
Max Head (M)	21 m	28 m	30 m
Flow Rate	50 lit / min	60 lit / min	70 lit. / min
Application	2 taps / 1 shower	4 taps/ 1 shower	4 taps / 2 shower
Discharge Pressure	2.5 Bar [250kPa]	3 Bar [250kPa]	3.5 Bar [350kPa]



# POINT-OF-ENTRY WATER FILTER

## H2O Series Membrane Water Filter

Fully Stainless Steel Casing  
Model H2O-Z2000



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**Filtration to 0.01 micron**  
Most advanced filtration technology to 0.01 micron. Filter your whole house's water to a super clean and clear condition!
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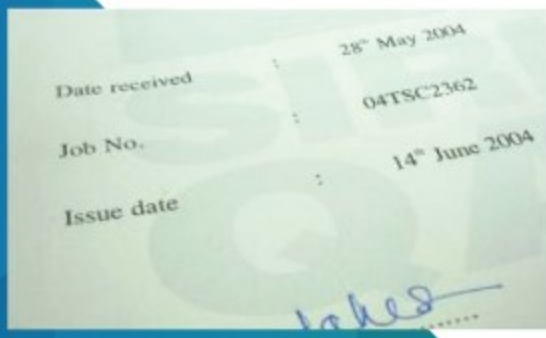
**Removal of Bacteria & Viruses up to 99.99%**  
Removes all sediment & impurities even bacteria & viruses up to 99.99 %
- 

**Superb Quality Filtration Material**  
Consists of 13,000 capillaries of hollow fiber membrane, guaranteed high flowrate and no clogging of filter
- 

**Automatic, user friendly & water saving flushing maintenance**  
Filter is automatically self-maintained by a battery operated Timer Controller imported from USA. User could also turn on a manual water tap to maintain the filter while using the discharged water for gardening
- 

**Flexible Installation ( Suitable for all landed property & condominium / apartment )**  
Installation can be horizontally or vertically wall mounted. No space constraints !

Model	Casing Material	Size	Flowrate	Filtration Efficiency	Max. Operating Pressure	Recommend Replacement
H2O-Z2000	Stainless Steel	100mm (Dia) x 1100mm (L)	2000 lpm	0.01 micron	6 bar	Membrane module: after 3-5 years



Manual water tap



Battery operated auto timer controller

Bacteria Removal Test by SIRIM

Filtration Test by SIRIM

Filtration Test by Chemlab

Pressure Test by SIRIM



# WDB Series Media Filter

## Absolute No Cartridge Replacement Cost

Using silica sand as filtration media ensuring long lasting filtration performance with no cartridge replacement

## Simple Backwash Mechanism

Just a turn of the multiport valve lever to perform backwash. All contaminants will be flushed out from the system

## High Withstanding Pressure

Made of a one piece tank from food grade fiberglass composite to withstand an operating pressure of 8 bar



## POINT-OF-USAGE INDOOR DRINKING FILTER

### H2O Ultra-purification Drinking Water System

#### Direct drinkable & no boiling of water

Equip with with 5 cartridges for superfine filtration & removal of all harmful chemical & chlorine for direct drinking.

#### No electricity required

No pump & electricity required to operate the system.

#### LOW Replacement / maintenance cost

Lifespan of the cartridges are in between 10 – 12 months. We guarantee you the LOWEST replacement cost of cartridges.



01

#### Level 1 – Pre-Filter

Filter out sediments down to 5 microns of mud, rust & sludge

02

#### Level 2 – Pre Carbon Filter

Absorbs chlorine and other harmful chemical from water

03

#### Level 3 – Compressed Activated Carbon

Further absorption on colour, odour & micro-organics in water

04

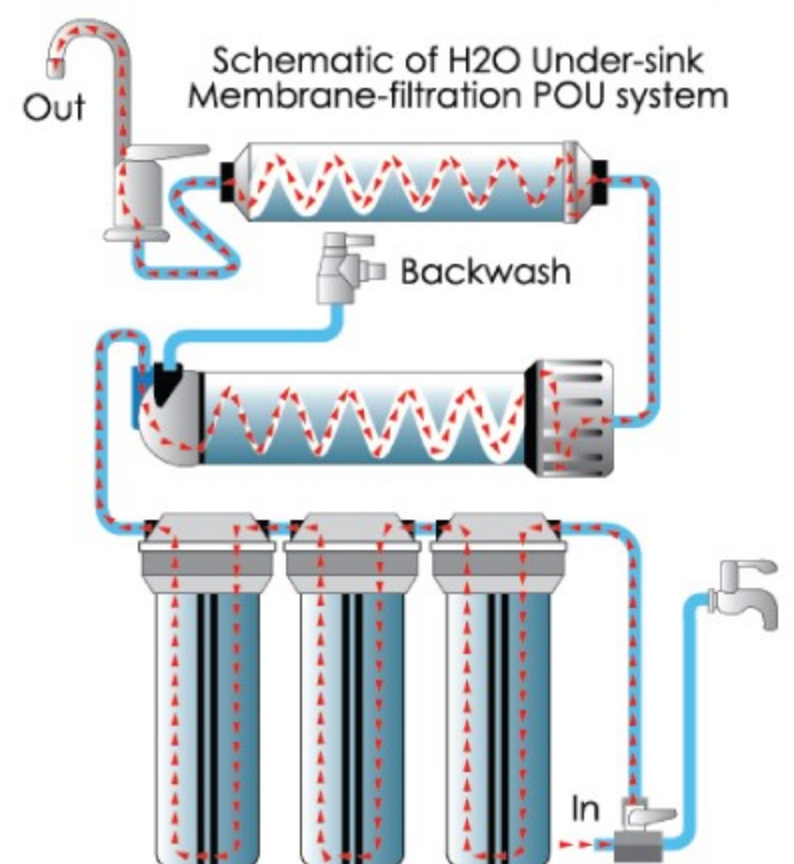
#### Level 4 – H2O Membrane

Fine filtration for removal of bacteria, viruses and other microorganism within water

05

#### Level 5 – Taste & Odour Removal

Final post filtration and improving the taste of drinking water



### Recommended Replacement

Cartridges level 1, 2, 3 & 5: after 12 months

Cartridges level 4: after 18 months



# HYDRONE



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