

100% STAINLESS STEEL

SOLAR WATER HEATER

STRONG | SUSTAINABLE | SMART



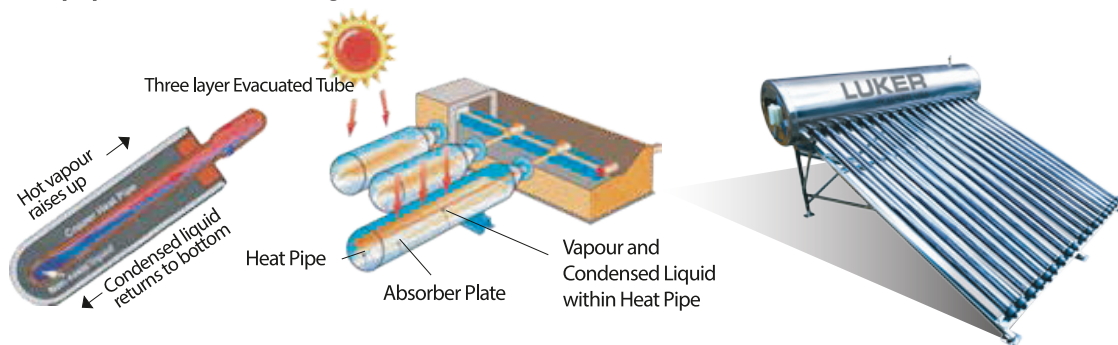

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PRESSURISED SOLAR WATER HEATER

Working principle of pressurised Solar Water Heater

The non-toxic liquid inside the Copper heat pipe used in solar water heaters has a boiling point of only 25°C. So when the heat pipe is heated above 25°C, the liquid vapourises. The vapour rapidly rises to the top of the heat pipe transferring the heat to the cold water inside the tank. As heat is lost at the condenser top, the vapour condenses to form a liquid and returns to the bottom of the heat pipe to repeat the process. Each heat pipe is tested at 250°C. For this reason the Copper heat pipe is relatively soft. Because of high temperature, the glass tube is given a three-layer coating. Given the strict quality control and high Copper purity, the life expectancy of the heat pipe is even longer than that of the solar tube



Features

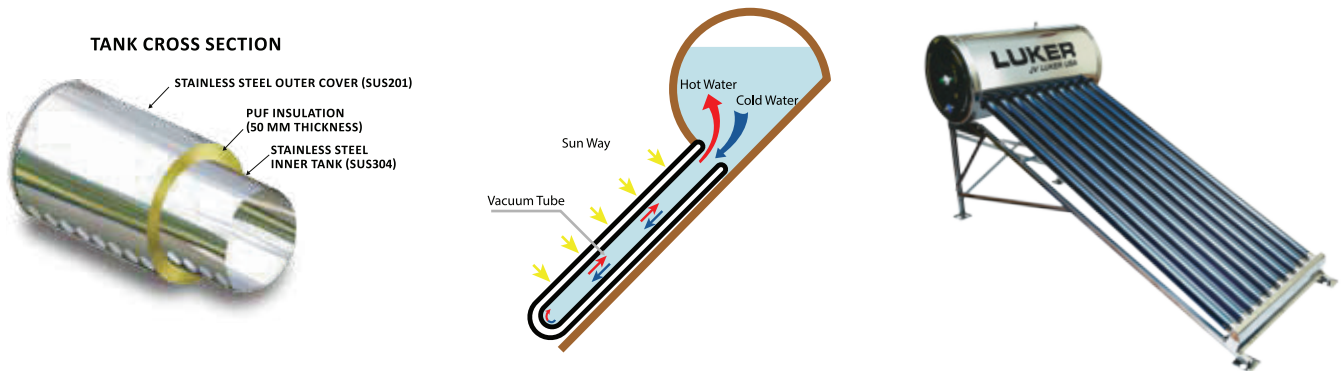
- Inner tank made of **FOOD GRADE Stainless Steel (SS 304 L-1.2 mm Thickness)** for durability & long life.
- **SS 304 L 1.2 mm inner tank with pressure rating capacity of 0.9 Mpa(9bar).**
- **High density PUF insulation to minimise heat loss.**
- **Outer Body & frame made of Stainless steel.**
- **Built-in Electric back up heating element (2500w).**

EVACUATED TUBE COLLECTOR (ETC) SOLAR WATER HEATER TECHNICAL DETAILS (LARGE SCALE SYSTEMS)

Model	Number of evacuated tubes	Back up heater	Inner tank	Size of the evacuated tubes	MRP
200 LPD-PR	18	2.5KW	SS 304-L	Ø58 x 1800mm	73900/-

NON PRESSURISED SOLAR WATER HEATER

Sunlight, incident on the vacuum tube, passes through the outer glass tube and strikes the outer surface of the inner glass tube with selective coating (AIN/SS/Cu). The glass tube acts like a black body and absorbs radiation, heating up in the process. The vacuum amidst the tubes prevents heat loss and the heated inner tube transfers the heat to water.



FEATURES OF CONSTRUCTION

- Inner tank made of FOOD GRADE Stainless Steel (SS 304 L-1.2 mm Thickness) for durability & long life.
- High Quality 3 layered borosilicate vacuum tubes (58/1800 mm- 1.6 mm thicknss) with AIN-SS-CU absorber coating for heat absorption.
- High density PUF insulation (50 mm thickness) to minimise heat loss of hot water inside the tank.
- Outer Body & stand made of Stainless steel.(SS 201L).
- Perform better in colder & partially cloudy atmospheric condition than FPC models.
- Electric back up heater - Optional to Customer.

SL.NO.	MODEL NO.	CAPACITY	INNER TANK	NO. OF TUBES / COLLECTORS	DESCRIPTION	MRP (₹)
1	L100	100 L	SS 304 L	10	SP460-58/1800-10	33690/-
2	L150	150 L	SS 304 L	15	SP460-58/1800-15	42490/-
3	L200	200 L	SS 304 L	20	SP460-58/1800-20	46580/-

SOGNO

SOLAR WATER HEATERS

100LPD/150LPD/200LPD



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TECHNICAL SPECIFICATION

Category/Type	: Non-Pressurised
Evacuated Tube Length	: 1800 mm
Tube Size	: 58 - 1800mm
Tank diameter	: 480mm
Tank Volume	: 100L/150L/200L
Inner tank Material	: 304L Food Grade Stainless Steel**
Outer tank Finish	: Powder coated*
Tank insulation	: PUF 50mm
Method of bonding	: Non Welding Technology
Type of grommets	: Silicon washers
Type of circulation	: Thermosyphon
Type of inlet Water feeding	: Using gravity Feeding tank / Assistant tank

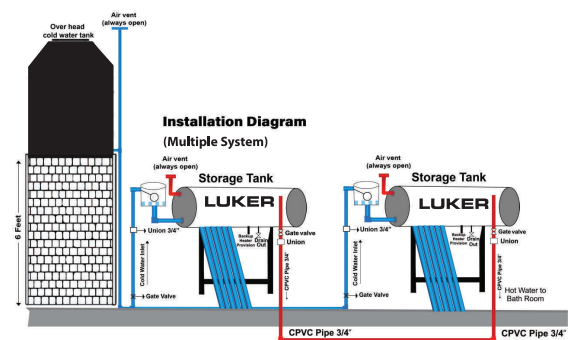
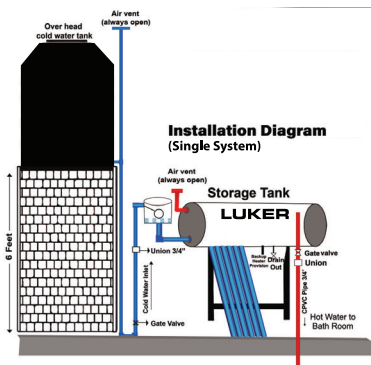
WORKING PRINCIPLE

Non-Pressurized Solar Water Heater relies on the natural circulation of water between solar collectors and water tank. As water in the vacuum tubes is heated, it rises naturally into the storage tank, while cold water in the tank flows down to the vacuum tubes, causing circulation throughout the thermosyphon system.

FEATURES OF CONSTRUCTION

- Food grade stainless steel 0.8 mm (SS 304 L) inner tank with advanced non-welding technology - prevent corrosion & tank leakage.
- High density PUF insulation (50 mm thickness) to minimise heat loss of hot water inside the tank.
- Premium quality 3 layered borosilicate vacuum tubes (58/1800 mm - 1.6 mm thickness) with AlN-SS-CU absorber coating for maximum heat absorption.
- Eco-friendly UV protected PPGI outer body & high strength PCGI frame for durability.
- SS 304 L Gravity feeding tank.
- Electric Back up heater - Optional to customer.
- Approved by MNRE Govt of India.

SL.NO.	MODEL NO.	CAPACITY	NO. OF TUBES / COLLECTORS	INNER TANK	MRP (₹)
1	LS SOGNOWH-100	100 L	10	SS 304 L (0.8mm)	29550/-
2	LS SOGNOWH-150	150 L	15	SS 304 L (0.8mm)	37950/-
3	LS SOGNOWH-200	200 L	20	SS 304 L (0.8mm)	44350/-
4	LS SOGNOWH-100 (BED TYPE)	100 L	10	SS 304 L (0.8mm)	29550/-



INSTALLATION INSTRUCTIONS

- Minimum Height of cold water tank should be 6 feet.
- Hot water pipeline should be 3/4" diameter which should be **CPVC Material**.
- Assistant tank / Gravity feeding tank has to be installed compulsorily to the main solar tank.
- Warranty is void if assistant tank is not fitted to main tank
- Solar Water Heater is Storage type water heater, Hot Water usage at once only.
- **⚠** Never close the overflow pipe / Air vent pipe of assistant tank.
- Guarantee is void if over flow pipe / Air vent pipe of assistant tank is closed.
- Guarantee is void if plumbing is not done as per the diagram given in the guarantee card.

INSTALLATION INSTRUCTIONS

- Minimum height of cold water tank should be 6 feet.
- Assistant Tank has to be installed compulsorily to the main solar tank.
- Hot water pipeline should be 3/4" diameter which should be CPVC Material.
- Warranty is voids if assistant tank removed / not installed.



*SOGNO Solar water heaters are not suitable for installation in coastal areas
 **SS 304L Grade inner tank suitable only for water hardness upto 300PPM

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