

# Turn to the Sun



Solar Water Heater



### FPC NON-PRESSURISED MODEL

Model	Utility points	Number of persons using hot water	Working Pressure Kg/Sq. cm	Number of collector	Back up heater (optional)	Inner tank	Inlet/outlet pipe size of storage tank	Outer Cover	Tank Insulation	Approx. wt of one complete system without water Kg	Approx. System height from the roof m	Min. required over head tank height from the roof m	Min. space area reqd. (NS X EW) m
100 LPD	2	2-3	1	1	2KW	SS 304	1.9 cm (3/4")	Precoated MS sheet	PUF	75	1.425	1.575	2.587 x 1.172
125 LPD	2	3-4	1	1	2KW	SS 304	1.9 cm (3/4")	Precoated MS sheet	PUF	78	1.476	1.626	2.587 x 1.176
200 LPD	4	5-6	1	2	2KW	SS 304	1.9 cm (3/4")	Precoated MS sheet	PUF	129	1.576	1.726	2.718 x 2.320
300 LPD	5	8-9	1	3	2KW	SS 304	1.9 cm (3/4")	Precoated MS sheet	PUF	193	1.780	1.930	3.015 x 3.335
500 LPD	8	14-15	1	4	4KW (2x2 Nos)	SS 304	2.54 cm (1")	Precoated MS sheet	PUF	267	1.846	1.996	3.011 x 4.485

### FPC PRESSURISED MODEL

Model	Utility points	Number of persons using hot water	Working Pressure Kg/Sq. cm	Number of collector	Back up heater (optional)	Inner tank	Inlet/outlet pipe size of storage tank	Outer Cover	Tank Insulation	Approx. wt of one complete system without water Kg	Approx. System height from the roof m	Min. required over head tank height from the roof m	Min. space area reqd. (NS X EW) m
100 LPD	2	2-3	4	1	2KW	SS 304	1.9 cm (3/4")	Precoated MS sheet	PUF	79	1.425	1.575	2.587 x 1.172
125 LPD	2	3-4	4	1	2KW	SS 304	1.9 cm (3/4")	Precoated MS sheet	PUF	82	1.476	1.626	2.587 x 1.176
200 LPD	4	5-6	4	2	2KW	SS 304	1.9 cm (3/4")	Precoated MS sheet	PUF	135	1.576	1.726	2.718 x 2.320
300 LPD	5	8-9	4	3	2KW	SS 304	1.9 cm (3/4")	Precoated MS sheet	PUF	196	1.780	1.930	3.015 x 3.335
500 LPD	8	14-15	4	4	4KW (2x2 Nos)	SS 304	2.54 cm (1")	Precoated MS sheet	PUF	272	1.846	1.996	3.011 x 4.485

#### V-Guard Solar Water Heater:

Energy- friendly, eco-friendly, user-friendly water heaters with state-of-the-art technology. V-Guard solar water heaters give round-the-clock hot water for you and your family.

#### Working Principle:

When the sun's rays strike the absorber fins, most of the energy is absorbed and transformed into heat which is conducted to the water flowing in riser tubes attached to the absorber plate. The water is circulated to the storage tank and continues to re-circulate till the evening. The circulation takes place through the process of natural convection (Thermosyphoning).

#### Annual Savings on Electricity Bills (sample chart)

Annual Savings on Electricity Bills (sample chart)	
Electricity consumed for heating 100 litres of water in a 25 Lit. electric water heater.	4.65 Elect. Unit/day(approx.)
4.65 x 300 (sunshine days)	1395 Elect. Unit
1395 x 6.5 (rate/unit)*	₹ 9068/- (approx)

No. of units saved will depend on the usage.

\*Rate is applicable in Kerala for consumption of 500 and above units per month

Note: Only 300 days of a year have considered. Rest of the days are assumed to be cloudy and overcast

#### Technical features:

- Collector box is made of specially extruded aluminium channel for durability and good aesthetic look.
- The top cover is made of toughened glass with high transmissivity.
- Absorber fins are made of high quality aluminium and coated with high absorptivity low emissivity solar selective coating.
- The risers and headers are made of thick gauged high quality copper tubes.
- The absorber fins are ultrasonically bonded to the riser tubes for high thermal efficiency and longer life.
- Each collector is pressure tested at 5 Kg/cm<sup>2</sup>.
- The storage tank is made of high quality stainless steel and is well insulated with PUF to minimise heat loss to the surroundings.
- Clear sunny days, the system is capable of generating 50°C to 70°C of hot water.
- Weather proof, ISI marked back up heater with adjustable, automatic temperature controller.

Large scale systems such as 1000 Lpd, 2000Lpd, 3000Lpd, 4000Lpd and 5000Lpd are available in non-pressurised category. 1000Lpd is available in pressurised category too.



CIN: L31200KL1996PLC010010

**V-GUARD INDUSTRIES LTD.** Branch Offices: **South Zone** • Bangalore Ph: 080 25280866 • Hubli Ph: 0836 2272942 • Coimbatore Ph: 0422 2457578 • Chennai Ph: 044 22248215 • Madurai Ph: 0452 2348666 • Hyderabad Ph: 040 24221841 • Vijayawada Ph: 0866 2474374 **North Zone** • Delhi Ph: 011 32954434 • Dehradun Ph: 0135 3243394 • Ghaziabad Ph: 0120 3193829 • Jammu Ph: 0191 2459440 • Kanpur Ph: 0512 3294006 • Ludhiana Ph: 0161 3265420 • Varanasi Ph: 0542-2108574 **East Zone** • Bhubaneswar Ph: 0674 3257275 • Raipur Ph: 0771 3265450 • Ranchi Ph: 0657 3208030 **North East Zone** • Guwahati Ph: 0361 2492897 • Kolkata Ph: 033 32963221 • Patna Ph: 0612 3248866 **West Zone** • Ahmedabad Ph: 079 27680330 • Bhopal Ph: 0755 3265383 • Jaipur Ph: 0141 2359143 • Mumbai Ph: 022 32996202 • Nagpur Ph: 0712 3294021 • Pune Ph: 020 32516054.

**Registered Office:** 33/2905 F, High School Road, Vennala, Kochi - 682 028, Kerala. Ph: 0484-2005000, 3005000. Email: [customercare@vguard.in](mailto:customercare@vguard.in)

\*Due to the continuous development & product improvement, the company reserves the right to change the specification without any prior notice.