



HARNESSING NATURE FOR A BETTER TOMORROW



SOLAR WATER HEATER FPC GL SERIES



TITANIUM INFUSED
GLASS LINED TANK



CORROSION
RESISTANT



EASY-TO-CLEAN
TANK



SACRIFICIAL ANODE
FOR LONGER TANK LIFE



ISI ELECTRIC BACK UP
HEATER (OPTIONAL)



DURABLE

*Conditions Apply

FPC GL SERIES SOLAR WATER HEATERS

Step into a world where every shower is a symphony of luxury and environmental responsibility. V-Guard presents to you an ultimate solution to all your hot water needs, FPC GL series; A superhero that pampers not just you but the planet too! Meticulously crafted using state-of-the-art technology at the V-Guard facility, these solar water heaters work like magic, using the sunlight to warm the water, making every shower a delightful experience.

FPC GL series is easy to maintain, and its durability guarantees countless indulgent showers. And here's the most exciting part, FPC GL series isn't just an upgrade; it's a smart investment. You'll save over Rs.10,000* annually while reducing your carbon footprint. With every warm drop, you're contributing to a greener future without sacrificing modern comfort.

DEFYING CORROSION WITH TITANIUM INFUSED GLASS LINED COATING

Glass Lined coating is a reliable technology that allows tanks to function well in both soft and hard water environments which also increases the durability of the tank. Glass Lined coating is applied to the insides of a mild steel tank, and thus prevents contact of water with mild steel thereby offering better corrosion resistance than any other commercially viable technology currently available. The latest technology are used in the completely automatic, PLC-controlled Glass Lined coating processes. To produce high-quality products, the process is fully managed by an automatic Monorail cardanic type heavy duty conveyor. The material known as vitreous enamel powder is applied to the internal surface of a metal tank and fired at temperature between 800°C and 850°C. The molecular interaction causes the vitreous enamel powder to melt, flow, and finally harden into a smooth, long-lasting glass coating on a metal surface which is called as Glass lining, Glass-lined steel or Glass fused to steel coating.

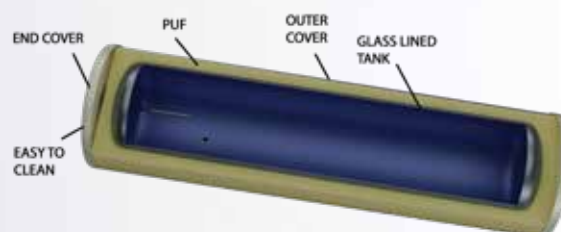
SALIENT FEATURES



- Heavy duty magnesium anode rods extend life of the tank.
- Easy tank cleaning facilitated by the side-opening design.
- Suitable for high-rise buildings.
- FPC GL series SWH offers a 5-year warranty*.
- Maximum heat retention with high-density PUF insulation.
- Sturdy construction with powder-coated MS angle stand.

*Conditions Apply

CROSS SECTION OF THE TANK



ANNUAL SAVINGS ON ELECTRICITY BILLS (SAMPLE CHART)

Electricity consumed for heating 100 L of water with electric water heater	4.65 electrical unit/day
4.65 X 300(sunshine days)	1395 electrical unit
1395 x 7.5(rate/unit)**	Rs. 10462/-

No. of units saved will depend on the stage.

**Electricity tariff is calculated as per the charges in the state of Kerala, for the consumption of 501-600 units.

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

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

TECHNICAL SPECIFICATIONS

- 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.
- The storage tank is made of glass lined mild 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.

FPC GL NON-PRESSURIZED SERIES

Model	Utility points	Number of persons using hot water	Working Pressure kg/sq.cm	Number of Collector	Backup Heater (optional)	Inner tank	Inlet/Outlet pipe size of storage tank	Outer cover	Tank insulation	Approximate weight of one complete system without water (kg)	Approximate system height from the roof (m)	Minimum Space Area required (NS X EW)
100 LPD	2	2-3	1 kg/cm ²	1	2kW	GL	1.9 cm (3/4)	Precoated GI Sheet	PUF	87 kg	1.8 m	2.7 x 1.12 m
200 LPD	4	5-6	1 kg/cm ²	2	2kW	GL	1.9 cm (3/4)	Precoated GI Sheet	PUF	153 kg	1.8 m	2.7 x 2.24 m
300 LPD	5	8-9	1 kg/cm ²	3	2kW	GL	1.9 cm (3/4)	Precoated GI Sheet	PUF	227 kg	1.8 m	2.7 x 3.40 m
500 LPD	8	14-15	1 kg/cm ²	4	3kW	GL	2.54 cm (1)	Precoated GI Sheet	PUF	297 kg	1.8 m	2.7 x 4.5 m

FPC GL PRESSURIZED SERIES

Model	Utility points	Number of persons using hot water	Working Pressure kg/sq.cm	Number of Collector	Backup Heater (optional)	Inner tank	Inlet/Outlet pipe size of storage tank	Outer cover	Tank insulation	Approximate weight of one complete system without water (kg)	Approximate system height from the roof (m)	Minimum Space Area required (NS X EW)
100 LPD	2	2-3	6 kg/cm ²	1	2kW	GL	1.9 cm (3/4)	Precoated GI Sheet	PUF	87 kg	1.8 m	2.7 x 1.12 m
200 LPD	4	5-6	6 kg/cm ²	2	2kW	GL	1.9 cm (3/4)	Precoated GI Sheet	PUF	153 kg	1.8 m	2.7 x 2.24 m
300 LPD	5	8-9	6 kg/cm ²	3	2kW	GL	1.9 cm (3/4)	Precoated GI Sheet	PUF	227 kg	1.8 m	2.7 x 3.40 m
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