



## **MG SOLAR WATER HEATER – FPC MODEL**

Murickens Group is an ISO certified manufacturer and supplier of solar water heating devices with International. There are two types of solar water heaters being widely used in Kerala. The first one is FPC (Flat Plate Collector) Model which is maintenance free and almost all of its parts are made up of pure copper and duly guaranteed for long durability and the second is ETC (Evacuated Tube Collector) model made up of Glass Tubes. The main difference between these two models are that while in FPC Model the heat absorbent (panel) is copper fins in the ETC model it is evacuated glass tubes. Murickens products are marketed through MURICKENS marketing system under the registered brand names `MG`. MG water heater has got a remarkable role to play in saving energy and its main attractions are very low maintenance cost, unlimited usage and the non- requirement of a government license. Using most modern technology and arranging subsidies for all our solar products from the Ministry of New Renewable Energy, we are highly delighted to state that we have installed innumerable Thermal Heat Converting Devices in Kerala since 1992 with computer precision and unchallenging perfection.

Flat plate collector (FPC) – An insulated, weather-proofed box containing a dark absorber plate under one or more transparent or translucent covers. This is the most common type solar water heater. Murickens has tested and proved since 30 years that it is the most suitable type for Kerala's climatic conditions and get 80°C hot water with the help of only normal sunlight. We have Pressurized MG solar water heater and Non -pressure solar water heater in FPC model.

### **MG SOLAR WATER HEATER FEATURES:**

- ▶ Maintenance free.▶ Water heated up to 80°C. ▶ No electrical hazard.▶ No expenses after installation.▶ The best way of getting natural hot water for cooking and industrial purpose ▶ Copper capillaries. ▶ P U F system and glass wool to avoid conduction loss for storage tank.▶ Light weight.▶ TIG welded fins and tubes. ▶ Compact in size. ▶ Heat expulsion.▶ Fully automatic. ▶ High quality

tempered 4mm thick front glass. ▶ Sturdy and weather proof design. ▶ Different Capacity starting from 125 liters to 10000 liters.▶ Custom built Solar Water Heater can also be provided. ▶ Two models FPC and ETC. ▶ In FPC special model we can connect pressure pump.



#### **APPLICATIONS:**

- ▶ In Restaurants Clubs & Resorts
- ▶ In Hospitals Hostels Institutions
- ▶ In Canteens and Laundries
- ▶ For Swimming pool water heating
- ▶ In most Process Industries
- ▶ In Green buildings to earn renewable energy points
- ▶ As In feed hot water to Boilers
- ▶ For Can washing at Dairy collection centers
- ▶ General washing & cleaning purposes
- ▶ In Agricultural sector.

#### **INSTALLATION GUIDELINES**

1. Unobstructed sunlight (Shadow free area)
2. Flat (Preferable) or sloping roof area as requested
3. Area should be near to point of usage (bathroom / kitchen) : to avoid long hot water piping and heat losses
4. The system (solar collectors) should face south direction
5. Fresh (cold) water tank at a height @ 5-7 ft above the system tank height
6. 5 years guarantee, onsite after sales service

**MG SOLAR FPC WATER HEATER TECHNICAL SPECIFICATION:**

<b>MG solar water heater FPC model</b>	<b>125 L</b>	<b>150L</b>	<b>250L</b>	<b>500L</b>
Usage No. of person	4 or 5	5 or 6	8 or 10	10 or 20
Installation Area(sq. mt)	4	4.5	8	16
Water output temp. (° C)	85 ± 5 °C under normal Sunny conditions			
FPC capillary tube Model:				
No. fins	9	9	18	36
Collector Material	Copper			
<b>Collector Box</b>				
Coating	Extruded Aluminum Powder Coated			
Collector Size	2050 mm x 1050 mm x100 mm			
Insulation	48 Kg/Cu,metre density Rock wool slab for standard model			
box back sheet	Aluminum sheet			
Solar Collector Absorber				
Coating	Selective black chrome – Nalsun			
Insulation cover material	Aluminum sheet			
Bonding between fin				
And riser	Metallurgical bonding			
Header	99.9 % copper 1” , 22 SWG			

Riser	99.9 % copper ½ “ 24 SWG
Hot Water Tank	
Tank type	Cylindrical – horizontal
Tank material (Inner)	Stainless Steel SS 304 (Food Grade) - 0.9 mm
Insulating material for tank	48 Kg/Cu,metre density Rock wool slab for standard model
Electric Heater (optional)	No need - if need 2KVS
<b>" Pressure pump model is available *Specifications are subject to change without prior notice"</b>	

## MURICKENS GROUP

**CORPORATE OFFICE :** -Kaduthuruthy Main Junction ,Kottayam District ,Kerala -686604.

**Branch Office :** Kodimata – Kottayam , Palarivattom – Ernakulam , Kallissery- Alappuzha .

For More DetailsWhatsapp : 9188323232 , 82818484884

Helpline : 8281747474,09447366779 , 09446822522

Email : murickans@gmail.com | mg@murickens.com

[www.solarwaterheaterkerala.com](http://www.solarwaterheaterkerala.com) , [murickens.com](http://murickens.com),

[www.solarkerala.com](http://www.solarkerala.com) , [www.murickensgroup.com](http://www.murickensgroup.com)

Our YouTube channels: - <https://www.youtube.com/c/solarpowermurickensgroup>

<https://www.youtube.com/user/murickens>

Under the name **MG** and **FLYLINE**, MURICKENS GROUP is a company with experience and credibility in the manufacture and marketing of electronic and electrical products.



MG Servo Voltage Stabilizer, Solar Water Heater, Deep Freezer, Mobile Mortuary, Mortuary Chamber etc.



Solar On Grid , Off Grid & Battery Less Grid Compensating Inverter, Solar Street Light Garden Light, Online & Off line UPS, Solar Panel, Solar Charging Controller,110V Step Down Stabilizer, Solar Battery, Modular Voltage Protector .