



MG SOLARWATER HEATER –ETC MODEL

Murickens group An ISO 9001:2015 certified company -Providing a complete solution for getting natural hot water with the help of sunlight by introducing "MG Solar Water Heater". There are two type of Solar Water Heater is available in Kerala which are:- "Flat Plate Collector" (FPC) and "Evacuated Tube Collectors" (ETC). It is tested and proved 30 years ago that it is the most suitable type for Kerala's climatic conditions. Central Government MNRE approved company.(Ministry of natural renewable energy). MG Evacuated Tube Collectors are the new version of solar water heater It is very cheap in price. In this system there no electronic or electric current conversion, only heat transmission. ETC collector is made up of rows of parallel, transparent glass tubes. Each tube consists of a glass outer tube and an inner tube called absorber which is covered with a selective coating. The demerits of ETC models are, we get only very low temperature, i.e. heat up $40 \pm 5^{\circ}\text{C}$. Water leakage through glass ceiling, chance of brakeage of tubes when it is exposed to sunlight, chance to catch fungus inside the tube and consequently lower the heat of water. On rainy season, must have use electrical heater.

ETC MG SOLAR WATER HEATER FEATURES

* Easy to carry and install, * Water heated up to 45°C . * The best way of getting natural hot water for cooking and industrial purpose. * Evacuated glass tube collector . * PUF system and glass wool to avoid conduction loss for storage tank. * Light weight. Compact in size. * Heat expulsion. ? Fully automatic. * Sturdy and weather proof design. * Different Capacity starting from 100 liters to 1000 liters. * Custom built Solar Water Heater can also be provided.

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). 3 years guarantee, onsite after sales service



MG SOLAR ETC WATER HEATER TECHNICAL SPECIFICATION:

| MG Solar Water Heater ETC Model | 100 | 150 | 200 | 250 |
|---------------------------------|--|-----|-----|-----|
| Usage No. of person | 2 | 3 | 4 | 5 |
| Installation Area(sq. mt) | 2.1 | 3.1 | 3.8 | 4.7 |
| Water output temp. (° C) | 40 ± 5 °C Under Normal Sunny Conditions | | | |
| ETC tube Model: No. of Tubes | 14 | 20 | 28 | 34 |
| Material | Glass 3.3 | | | |
| Coating | Selective Absorptive Coating | | | |
| Glass Sealing | Silicon Rubber | | | |
| Hot Water Tank material (Inner) | Stainless Steel SS 304 (Food Grade) - 0.5 mm | | | |

MURICKENS GROUP

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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 .
