

An ISO 9001 - 2000 Certified Company

## EVACUATED TUBE SOLAR WATER HEATER



## OUR RANGE OF PRODUCTS

LED STREET LIGHT

CONCENTRATORS

WATER HEATER

LED HOARDING

POWER PLANT

LANTERN



## SOLAR ETC WATER HEATER

The most efficient advanced solar water heating system:

Evacuated tube collector consists of two concentric glass tubes which are fused together at one end. The inner tube is coated with a selective surface that absorbs solar energy well but inhibits radiative heat loss. The air withdrawn ("evacuated") from the space between the two glass tubes to form a vacuum, which eliminates conductive and convective heat loss. These tubes perform very well in overcast conditions as well as low temperatures.

### TECHNICAL SPECIFICATIONS

|                                    |   |
|------------------------------------|---|
| Configuration                      | Two Concentric borosilicate glass tubes |
| Inner Tube Diameter                | 37 ± 0.7mm                              |
| Outlet Tube Diameter               | 47 ± 0.7mm                              |
| Tube Length                        | 1500 ± 5mm                              |
| Solar Absorber                     | Selective Coated Graded Al-N            |
| Solar Absorptance                  | > 0.93                                  |
| Solar Emittance (at 80°C)          | < 0.06                                  |
| Vacuum between Outer & Inner Tubes | 5*10 <sup>-3</sup> pa                   |
| Stagnation Temperature             | < 300°C                                 |
| Rated Pressure                     | 0.1M pa (1 kg/cm <sup>2</sup> )         |
| Inner container                    | SS-304L, Grade                          |
| Outer container                    | SS-304L, Grade                          |
| Insulation                         | PUF                                     |

### HOW TO CALCULATE THE REQUIRED SIZE:

|                       |     |     |     |     |     |     |
|-----------------------|-----|-----|-----|-----|-----|-----|
| Family size (Members) | 4   | 6   | 8   | 10  | 12  | 20  |
| Minimum no of Outlets | 2   | 3   | 4   | 5   | 6   | 8   |
| Capacity Recommended  | 100 | 150 | 200 | 250 | 300 | 500 |

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\*Due to constant innovation, we reserve the right to change product specifications without prior notice.