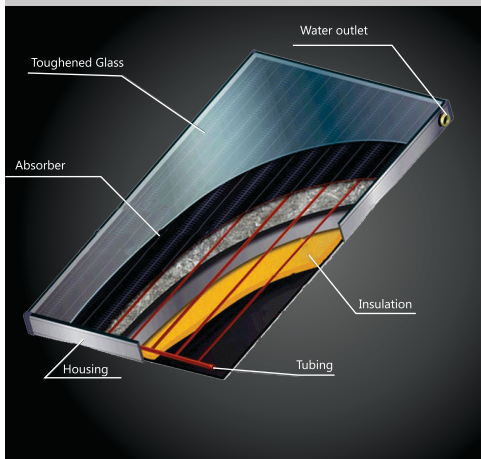




COMMERCIAL SOLAR WATER HEATER

Solar Water Heaters Flat Plate Collector

Solar hot water system is based on the principle of black body absorption. The black surface of the collector absorbs the heat energy from the sun rays and transfer it to the water passing through the copper tubes. Hot water being lighter in density, raised to the insulated storage tank and equal amount of cold water replaces this hot water from the copper tubes.



Flat Plate Collector Specification

Absorber	Copper / Aluminum with Black Chrome selective coating
Fin Type	Deep Serrated Fin to have increased surface area 10 - 15%
Copper Quality	99.99% 0.02pure
Collector Area	2.0 Sq. Mts
Header/Raiser Tube	Copper 25/12.5 mm.dia
Raiser to Fin joining	Ultra Sonic Welding
Collector Frames	Aluminum Powder Coated
Top Cover Glazing	Toughened Glass 4mm.thickness
Glass Beading/Gasket	Pure EPDM Rubber
Collector Insulation	Pluff Slabs for sides and 50 mm.thick Rock Wool Slabs
Flanges	Brass Forged & Machined Flanges

Area of Implementation

Hotels & Lodges
Institutions
Hospitals, Hostel

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Insulated Storage Tank

Inner Tank Material	Stainless Steel 304 / GI
Outer Tank material	Aluminum Stucco
Tank Capacity	Customized to Customer Requirement
Inlet/Outlet Pipe	Stainless Steel
Tank Welding	Tig Welding / Mig Welding
Filler Material	Stainless Steel
Thermal Insulation	Rock Wool / PUF
Heat Retention	72 hours