

SOLAR WATER HEATING SYSTEMS ???



Solar Water Heating system is a proven technology and economically most attractive application of Solar Energy. There is thus tremendous scope for saving all kinds of fuel which is being used for water heating applications through the use of Solar Thermal Devices. Based on the Solar Collector type, Solar Water Heaters are broadly categorized of two types.

FLAT PLATE COLLECTORS (FPC) BASED SOLAR WATER HEATERS

Flat Plate Collectors which consist of an insulated outer metallic box covered on the top with glass sheet. Inside there are blackened metallic absorber (selectively coated) sheets with built in channels or riser tubes to carry water. The absorber absorbs the solar radiation and transfers the heat to the flowing water.

EVACUATED TUBE COLLECTORS (ETC) BASED SOLAR WATER HEATERS :

Evacuated Tube Collector is made of double layer borosilicate glass tubes evacuated for providing insulation. The outer wall of the inner tube is coated with selective absorbing material. This helps absorption of solar radiation and transfers the heat to the water which flows through the inner tube.

APPLICATIONS FOR "ARUN" SOLAR WATER HEATING SYSTEMS

For temperature ranging from 30 Deg. Celsius to 80-85 Deg Celsius. The capacities offered range from 100 Liters. to 100000 Liters./day or even higher. Custom designed systems are also offered for specific applications involving heating wherein Solar Water Heating can be adapted.



APPLICATION AREAS FOR SOLAR WATER HEATING SYSTEM

Hotel Industry	bathing, Washing, Cleaning in kitchens, Cooking, Boiler feed water, Laundry, Swimming pool heating etc.
Clubs & Resort	Same as above.
Institutional Hostels	bathing, washing & cooking.
Dormitories / Canteens	bathing, washing & cooking.
Hospitals	bathing, washing, laundries and for operation theater, Boiler feed water.
Industries	boiler feed application.
Industrial Canteens	Washing, Cleaning in kitchens, Preparation etc.
Dairies	boiler feed, equipment washing etc.
Automobile Industry	processes like degreasing, alkali bath, phosphating, Cleansing bath & direct requirement of hot water.
Paint Industry	heating of input chemicals by indirect heating
Bottling plants	use in syrup mixing and bottle cleaning applications.
Industrial Colonies	bathing, washing & cleaning.
Swimming Pools	maintaining temp around 27 Deg.
Pharma/Chem/Fertilizer	athing in production centers & labs.
Textile Industry	operations as Resizing, coir boiling, dyeing, Pressing Huge hot water requirement at 70-80 deg C .

BENEFITS OF SOLAR WATER HEATER

- ❖ Custom Designed Models
- ❖ Available in any capacity
- ❖ Any temperature ranges from ambient to 80-85°C
- ❖ Design feature to give fixed temperature output
- ❖ Overnight storage facility provided with insulation to prevent the heat losses.
- ❖ Electrical / Conventional back - up facility (Optional)
- ❖ Designed to suit any type of water quality
- ❖ Easy to adapt and install on any type of roof
- ❖ Facility of annual Maintenance contract
- ❖ Cost Effective and economical
- ❖ Eco friendly
- ❖ Accelerated Depreciation
- ❖ Insurance against rising cost of fossil fuel
- ❖ Products are made to the highest raw material
- ❖ Finest workmanship ensure durability and reliable operation