



Manufacturers & Dealers of:
Solartech PV Systems, Thermal
Systems, SWEG, Energy Saving
& Security Devices etc.



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Su Solartech Systems (P) Ltd.

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SOLARTECH WATER HEATING SYSTEM

WITH ISI MARKED 'A' SIZE THE BIGGEST
SOLAR FLAT PLATE COLLECTORS

Solartech group of companies is operational since 1985 and registered and approved by various centre & state govt agencies, defence establishments, private industrial houses for supply & installation of various types of Solar Systems. Apart from thousands of other types of systems, having installed thousands of big size Solar Water Heating Systems all over India with state of the art technology, we can boast of our expertise in this field. Over the years we have modified and kept pace with the latest technology available in India and abroad, so that our valued customers get maximum true returns out of their well-spent money and feel satisfied.

Our list of prestigious users of Solartech Water Heating Systems includes various Govt agencies like HQs of Western Command, Northern Command, Central Command, PWD, CPWD, MES, PEDDA, HARTRON, HIMURJA, DEDA, HAREDA, JAKEDA, DST, Chandigarh Administration, VIPs like Sh. Parkash Singh Badal Ex-C.M. (Pb.), C.M. (Hry.), Governor (H.P.), Industries like, RANBAXY, NFL, IOC, PTL, SFD, GIS Ltd., etc. Defence establishments like MH, Ambala, Ferozepur, Hissar Cantt, Srinagar, Bathinda, Siachin base camp, Ranchi, PH&HP(I) Sub Area, JLA etc. One of the biggest systems of northern region like 20,000 LPD SWHS at Medical College, Chandigarh has also been installed and consultancy to Chandigarh Administration to meet complete hot water requirements of the hospital is also provided by Solartech Group. The biggest order placed by H.Q. Western Command of Solar Heating System of Rs. 69 Lacs is executed by us.



IS 12933



CML 9168899

Solartech Water Heating Systems, suitable for all weather conditions are the first and the only system with "A" Size Collector (with ISI mark) on GOI approved DGS&D Rate Contract for Govt. supply all over India without tendering.



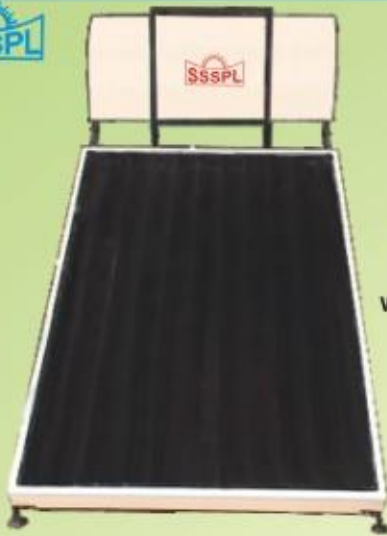
Avail the benefits of Solartech

Mission / Vision

- ◆ A single manufacturing source (one stop shopping) for Renewable Energy Devices like Solar Thermal Systems, Photovoltaic Systems, Small Wind Electrical Generators, Energy Saving and Security devices etc.
- ◆ Quality state of the art products at competitive prices.
- ◆ A continuous stream of new products.
- ◆ Superior Customer Service.

Working

Su Solartech Water Heating System work on the principle of black body absorption. The selective Coatings used in solar Collector absorbs Solar Radiation and convert it to Heat Energy. The hot water rises up in the risers of the collector & returns to the hot water storage tank. There is no requirement of motor or pump to circulate in thermosyphon system however in forced system the pump is required for circulation of water.



Domestic Solar Water Heating System

Utility & Applications of Solartech Water Heating Systems

Su Solartech Water Heating Systems with E.B-up, designed specifically for winter season, are useful to meet the requirements of hot water of Defence, Industries, Hotels, Hospitals, Hostels, Mess, Canteens, Religious and Charitable Institutes, Educational Institutes, Residences etc., for bathing, washing, cleaning, cooking, Process heating, Boiler feed water, Leather tanning, Food processing, Space heating, H.D. Oil heating, Component washing, Dyeing, Painting, Ice Melting at high altitude areas, etc. throughout the year 24 hrs. a day.

Available Sizes of Solartech Water Heating Systems

Available in different sizes of 100 litres per day (LPD) at 60° C to 1,00,000 litres per day at 85° C for plains, Deserts, High Altitude areas, with Epoxy coated M.S. or stainless steel hot water storage tank. Available in thermosyphen as well as Forced Flow mode with different designs & configurations.

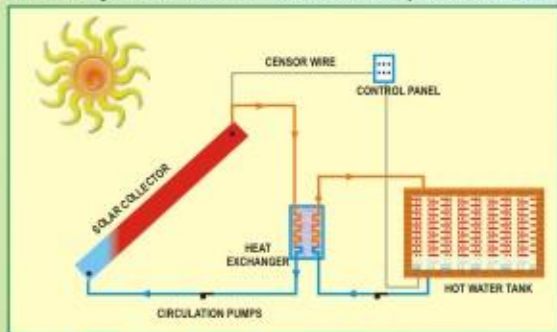
Product Range

Thermosyphon System :

SU SOLARTECH STANDARD MODEL consists of collectors, insulated hot water tank, inter connecting piping, electrical backup, sacrificial anode, it heats the water directly and recommended for water having hardness less than 90 PPM.

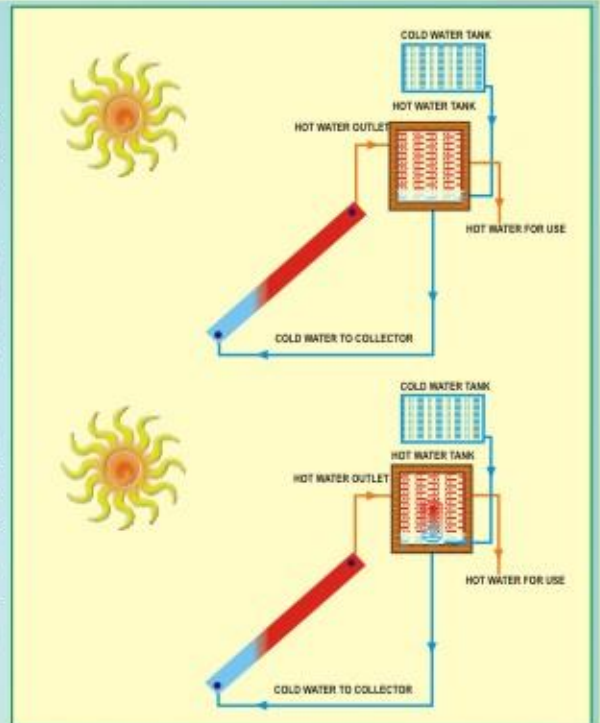
SU SOLARTECH HX MODEL consists of collectors, insulated hot water tank with heat exchange with makeup tank, inter connecting piping and electrical backup, sacrificial anode it heats the water indirectly. Recommended for water having hardness more than 90 PPM and for snow bound area for anti freeze.

SU SOLARTECH PRESSURISED MODEL consists of collectors, pressurized dished end insulated hot water tank with heat exchanger, inter connecting piping and electrical backup, sacrificial anode it heats the water indirectly. It is recommended for pressurized water supply and for water having hardness more than 80 PPM and for snow bound area for anti freeze.



Forced Circulation

It have all the components same as in Thermosyphon. Whereas the heat exchanger is outside the hot water storage tank and circulation through pumps and having differential control for highest output recommended for industrial and commercial organization where the size of tank is large.



Site Specific Systems : No. of other types of site specific systems are also designed & supplied as per customer requirements and site constraints, requirements and feasibility.

Su Solartech Technology Edge

- **Selective Coating :** The worlds most advanced continuous black chrome coating best for high temperatures improves the collectors efficiency with a life of more than 15 years.
- **Laser Welding :** Laser Welded Fin & tube ensures a very high degree of thermal efficiency, thermal stability with best heat transfer.
- **Toughened Glazing :** Low Iron high transmissivity toughened glass capable of with-standing high temperature and hailstorm impact gives high efficiency, superior protection and durability
- **Insulation :** Rock Wool/PUF having low conductivity is used to minimize the heat loss.
- **Exclusive Closed Circuit System :** Incorporate failsafe low cost freeze protection developed to with stand harsh winter climates.
- **Stainless Steel Storage Tank :** Su Solartech manufacture lifetime corrosion resistant food grade stainless steel tanks. However large tanks are made of Mild Steel with special epoxy coating.
- **Sacrificial Anode :** Sacrificial anode used for ultimate tank life and durability by scale formation protection.
- **Hot Water All Year Round :** A highly efficient electric back-up used for cloudy/foggy and rainy days.

Consultancy & Contracting

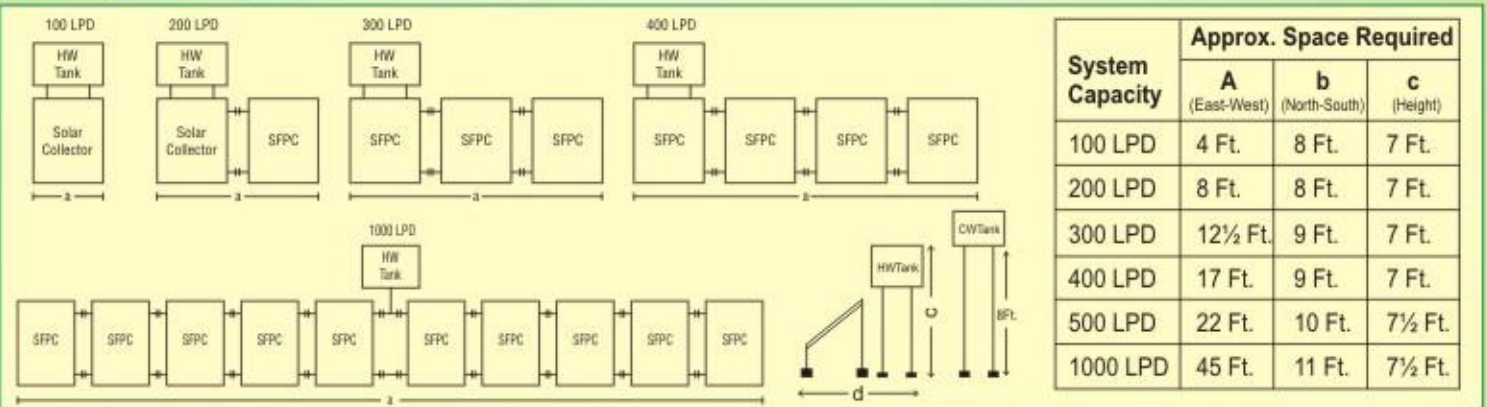
Su Solartech provides complete designing engineering & contracting service for domestic, commercial & industrial water heating & swimming pool heating solar projects. This offer our customers distinct advantages.

- Best Product & Services at Lower prices
- Direct Feedback
- Single source responsibility
- Unparallel systems experience from designing to execution of 25 years



Provisions & Prefeasibility

- Shadow free south facing area for collector
- Cold water tank at 8ft. height from roof level
- Insulation of piping from solar to user point is mandatory
- Dedicated separate insulated hot water line from solar to bathrooms
- Site prefeasibility is required for better designing



COMPONENTS

Basic

SSSPL make Solartech Water Heating System consists of:

1. Solartech Flat Plate Collectors (ISI marked) The Biggest 'A' Size to get highest temp. However as an option 'B', 'C' size SFPC and ETC collectors also available.
2. Double Walled Insulated Hot Water Storage Tank. (Epoxy Coated MS/SS 304)
3. Piping in between the system.
4. Collector & HW Tank Stands.
5. Temp. Gauze & other controls.
6. Magnetizer or Sacrificial Anode. (Optional)
7. Heat Exchanger with Feeder Tank having Thermic fluid/Anti-freeze solution.

Optional

1. Over Head Cold Water Tank with Stand.
2. System with colours of choice.
3. Thermosyphen/Forced Flow Type System.
4. Pump & Solenoid Valve.
5. With DTC/FTC.
6. Flat roof/Ground/Inclined roof mounted structure.

Services Offered

- **Solar Feasibility Studies** : Provide a simplified design & economic analysis at relatively low cost for clients considering a solar installations.
- **Computer system Simulations** : We advice owners exactly how much heat a solar installation will supply at a given site and the percentage reduction of total heating costs.
- **Contract system Designs** : provide complete design specifications and tender documents for public or select tender of contract installations.
- **Monitoring and Performance Evaluation** : of installed solar projects to confirm system performance and energy delivery.
- **Automatic Controls** : Fully automatic controls with digital boards are designed for forced circulation systems

Special Features

- a) Fully automatic controlled systems with **digital display boards** are designed for forced circulation Solar Water Heating Systems.
- b) Su Solartech using selective coating having high solar absorptivity & low emissivity for the best performance of the system.
- c) Copper-Copper Laser welded Fin & Tube ensures a very high degree of thermal efficiency and thermal stability. Weld strength, service life and corrosion resistance are equal to that of parent metal. There is no solder or adhesive to deteriorate and no mechanical joint to work loose.
- d) Horizontal toughened low iron glass used for better protection & performance.
- e) Anodised Extruded Aluminium Channel used for extra strength, longer life & attractive look of the collector
- f) Su Solartech Systems are durable, having longer life & suitable, for heating the fluid upto 85° C.
- g) Su Solartech Systems work at high efficiency even on cloudy days. Due to high absorptivity, low emissivity selective coating used.



Solar Swimming Pool Heating

Su Solartech Swimming Pool Heating system is Energy saving, & eco friendly way of heating Swimming Pool.

Su Solartech maintains the Swimming Pool Water to comfortable temperature of 25°C ± 2°C round the clock during winter Season.

Over the years, we continuously improved & refined the original Design. With extensive testing & innovation Su Solar System is the Finest automatic Pool Heating System in India.

Su Solartech Systems Selection

Domestic :

20-25 Ltr. /person /bath/ shower
100-200 Ltr. /person/ bathtub
filling, Wash basin, dishwashing,
washing machine etc. 100
Ltr./day

Hotels :

50-100 Ltr./ bathroom
having shower, 100-
200 Ltr. / bathrooms
having bathtubs

Hostels :

15 Ltr./head/day for
common bathrooms,
25-50 Ltr./head/day
for attach bathrooms

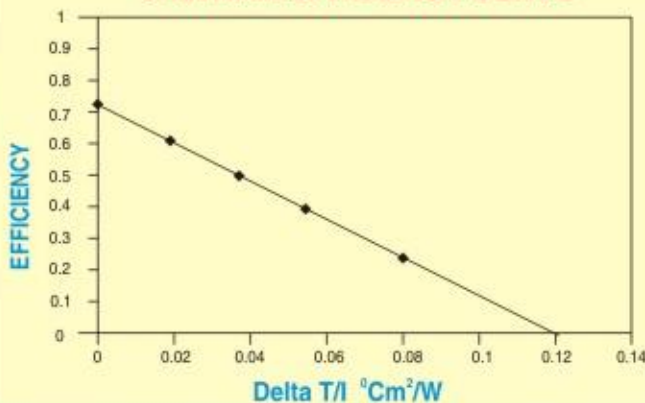
Industry :

For any hot water
application upto
85°C

Hospital :

50-100 Ltr. /bed
including Operation
Theatre, Laundry
etc.

THERMAL EFFICIENCY CURVE



SAVING / ANNUM AT A GLANCE

(For a typical 100 LPD Solar Water Heating System at 60°C)

FUEL	CALORIFIC VALUE (K Cal/Kg)	THERMAL Efficiency (%)	FUEL SAVED (Kg/Annum)
Fire Wood	4708	17.3	21380
Kerosene	9122	50.0	3800
LPG	10882	60.0	2650
Coal	3302	75.0	6990
Diesel	10004	75.0	2310
Electricity	--	90.0	22400 (KWH)

Our Prestigious Customers



Our Business Associates / Suppliers



Approval of Quality & Registered with



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AUTHORISED DEALER / REP.