

Know your Solarizer Elite - Hybrid solar hot water system

Corrosion resistant and hygiene	Glass enamel coated tank	Design flexibility	Easy cascading for higher volume of water
Anti-freezing and efficient heating	Glycol-Water based heat transfer fluid	Easy monitoring	Heat metering facility (optional) Remote monitoring via internet (optional)
Efficient heat transfer	Helical coil heat exchanger (for solar and heat pump circuit)	European quality solar collector	Solar Key Mark certified solar collectors
Heat pump	Air source	Wide range	Available in 500, 1000, 2000 and 3000 liter storage capacity
Low power consumption	High efficient circulator pump	Applications	Homes, Hospitals, Hotels and Hostels
Automated operation	Sophisticated electronic controller for solar circuit and heat pump		

For more information on product details

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*Solar key mark certified collectors

Hot Water Spring
 in your home....



Emmvee Solar Systems Private Limited

(An ISO 9001:2008 and ISO 14001:2004 Certified Company)



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Manufacturing Plant

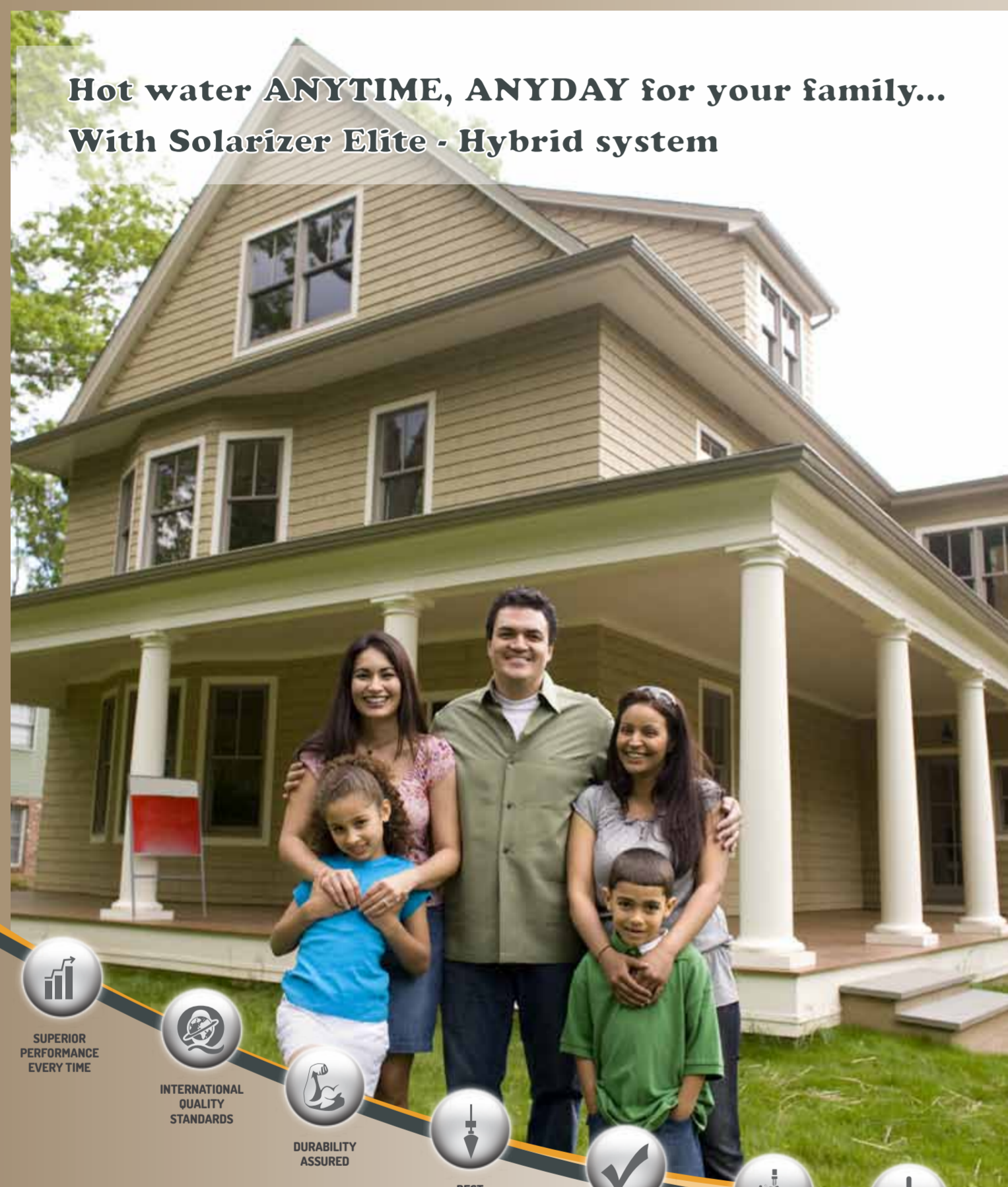
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Solarizer elite HYBRID
 Hot water always.....

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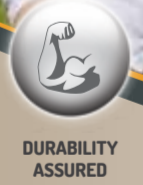
**Hot water ANYTIME, ANYDAY for your family...
With Solarizer Elite - Hybrid system**



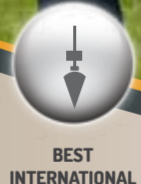
SUPERIOR PERFORMANCE EVERY TIME



INTERNATIONAL QUALITY STANDARDS



DURABILITY ASSURED



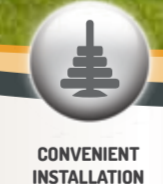
BEST INTERNATIONAL COMPONENTS



SAFEST SYSTEM



MOST HYGIENIC



CONVENIENT INSTALLATION

Solarizer Elite - Hybrid solar hot water system is specially suitable for large home which needs hot water at many points. It is very convenient to install a Solarizer Elite - Hybrid in a separate location (eg. basement, garage, storeroom etc) and connect the hot water to many points in the house through an insulated pipe line. The solar hot water system can also be connected to a pressure boost pump.

Solarizer Elite - Hybrid solar hot water system

Conventional Solar hot water systems will deliver hot water only when the sun is shining. However, during the days of monsoon and overcast days, it is necessary to use electrical back up heater built in the solar tank to heat the water. Electrical heaters consume precious and expensive electrical energy.

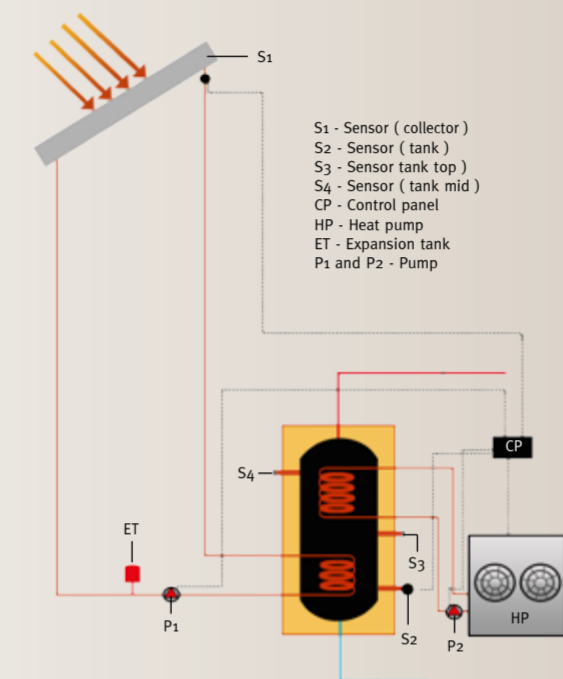
The storage tank in the conventional solar water heater is designed to provide bulk hot water for consumption during non-sunshine hours and this restricts the withdrawal of hot water as per your convenience.

For example, if you would like to bath or use hot water during the mid-day when the sun radiation is at peak, the cold water equal to the volume of the hot water withdrawn cannot be reheated as the remaining sun shine hours is not adequate to provide energy. Hence there will be no hot water for consumption next day, unless auxiliary electrical heating is used.



Illustration of installation of heat pump integrated solar hot water system

Integration of solar hot water system with heat pump



Schematic of centralised solar hot water system with heat pump

The diagram explains how solar collectors and heat pumps work together and heat up the water in the storage tanks. The storage tank shown in the diagram is a twin coil for the solar heating source and secondary heating source (in this case heat pump). The system has an automated control system to switch on and off of the heat pump(s), depending on the heat load of the building.

EMMVEE also manufactures enameled tanks for the large volume of storage with and without single and twin helical coil heat exchanger.



Luxury bathing ANYTIME, ANYDAY...

“A Solarizer Elite - Hybrid solar hot water systems solves this problem” !!!

A Solarizer Elite - Hybrid solar hot system consist of a large solar tank connected by pipes to solar collectors which are mounted on terrace of your house and to a heat pump. The heating of the water in solar tank is done by the solar collector as well as the heat pump. The heating sequence and logic is controlled by a very sophisticated electronic controller that automatically decides on how to share the heating of water.