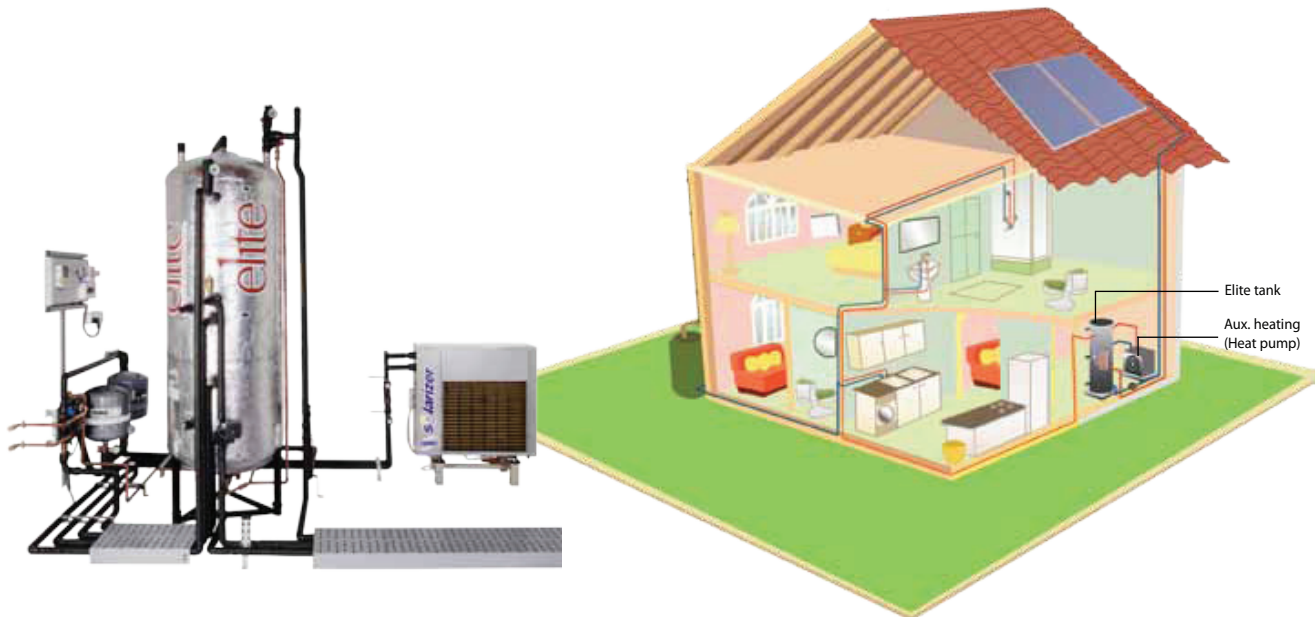


## Solarizer Elite (Pump series)

Solarizer Elite (pumped series), is specially suitable for large home which needs hot water at many points. It is very convenient to install a Solarizer Elite model in a separate location (ex. 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.



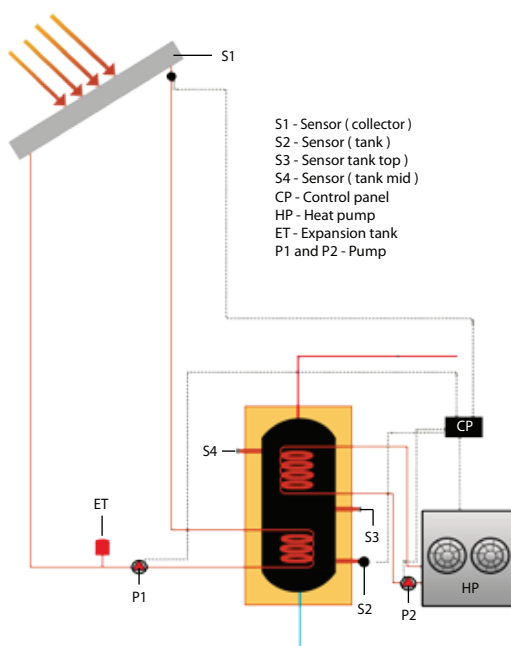
Actual installation of Solarizer Elite pump series

Graphical representation of installation of Solarizer Elite, pump series

The Solarizer Elite hot water systems has two in-built heat exchanger coils which are fully enamel coated. One of the coil is connected to the solar panel on the top of your house or building and other to an auxiliary heating source (like heat pump, electrical heater). The system has its own pumps and controls which ensures that maximum solar energy is utilized for heating water and when ever there is a cloudy or overcast sky, the auxiliary heating source automatically starts and ensure that storage tank will have hot water. With this system it is possible to use hard water in the storage tank

In areas where, there is a good supply of soft water (from river, lakes or underground), Solarizer Elite can be supplied without heat exchanger coils.

The system uses a very small quantity of electrical energy to circulate the heat exchanger fluid from solar collector to tank.



Schematic of centralised solar hot water heating system with heat pump  
[www.westernsolarsystems.com](http://www.westernsolarsystems.com)

PRODUCT SPECIFICATIONS	
Model	ES500P
Number of collectors	4
Collector model	ES2000B
Storage tank	500 litres
Coating	Glass enamelled
Heat Exchanger	
Solar side	Yes, Helical coil
Working pressure (domestic hot water side)	6 bar
Solar side (heat exchanger)	10 bar
Auxiliary side (heat exchanger)	10 bar
Controller (DTC with sensors)	Yes
Expansion tank (solar & aux.)	Yes
Safety valve (solar & aux.)	Yes
Air release valve (solar)	Yes
Anode	Magnesium
Hot water piping (optional)	Copper
Pumps	70-100W      100-120W
Heat exchange medium	Emmveol (Glycol-water mixture)