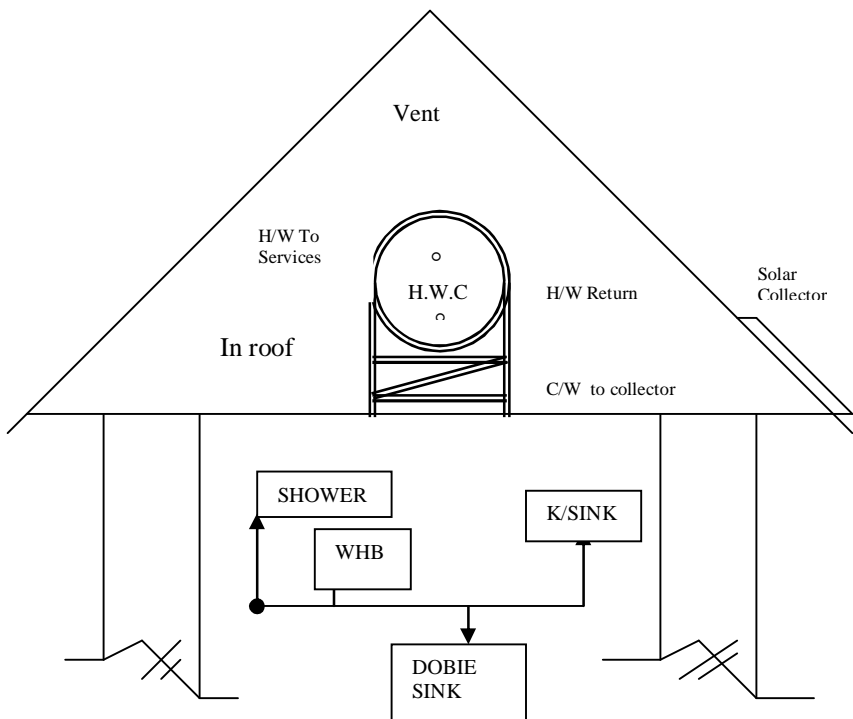




Solar Water Heating Systems



The Solar Collector (panel) absorbs solar radiation falling on it. Water contained in the risers and headers absorbs the heat from the collector and becomes less dense than the water in the storage cylinder. On the principle of Thermosyphon, hot water is pushed through the collector and enters the top of the hot water cylinder at higher temperature and cold water from the cylinder

simultaneously descends to the bottom header of the collector. From the cylinder, hot water is distributed to all required outlets.

SELECTION GUIDE

Selecting the right number of solar panels (collectors) and hot water cylinder is essential to provide an adequate supply of hot water. Solagen water heating.

Systems are available in varying capacities to heat water by an average of 60°C using 2.4m² solar panels instead of 2m² to achieve 20% more energy.

The standard household kits range from 30 Gallons (135 litres) up to 100 Gallons (450 litres) as detailed below.

CYLINDER CAPACITY	PANEL AREA	NUMBER OF SHOWERS	NUMBER OF BATHS
30 Gallons (135 litres)	2.4m ²	4	2
40 Gallons (180 litres)	4.8m ²	6	3
60 Gallons (270 litres)	4.8m ²	8	5
70 Gallons (315 litres)	7.2m ²	10	6
80 Gallons (360 litres)	7.2m ²	12	7
100Gallons (450 litres)	9.6m ²	14	9

For commercial, industrial and institutional applications the Hot Water Systems are individually designed for storage capacities of up to 6500 liter's and panel areas of hundreds of square meters. Here circulator pumps are used to pump water from hot water cylinders to collectors. The pump is triggered on and off by automatic temperature differential control unit. These systems have a greater control on output temperature and can deliver up to maximum temperature of 80°C, which can be used as feed water for boilers, cooking and sterilization in hospitals.

Solar Pool Heating

Solar Pool heating systems work by pumping water from the swimming pool through stabilized absorber strips positioned to receive solar radiation and then returning water to the pool. An automatic control ensures the pool maintains temperature of up to 7 degrees above the ambient. Pool heating systems effectively extend your swimming by 2-3 hours per day and the season by up to 3 months.

WARM YOURSELF UP WITH SOLAGEN WATER HEATING SYSTEMS.

Q. How reliable is the solar water heating system?

ANS. The solar collectors have five years guarantee. The Thermo-syphon systems are as reliable as the sun, as there are no moving parts and hence is maintenance free.

Q. Will the system heat water during cloudy and rainy days?

ANS. unless the day is totally cloudy, the system will heat water though at lesser temperature. Furthermore our hot water cylinders are fitted with provisional electric boosters with set temperatures to heat water during totally cloudy days. On the whole, the solar water heater works for more than 300 days in a year.

Q. When will my investment in solar water heating begin to payback?

ANS. The investment you make in our solar water heating system will payback in two to three years depending on your present hot water demand and last over twenty years. Below is a typical example:

Investment Earning Of A Solagen 30 Gallons Water Heating System.

Electricity units consumed	14KWH
Unit cost	4/80
Heating cost (once a day)	67/20
Heating cost (twice a day) morning & evening	134/40
Yearly heating cost (once a day)	24,528/=
Yearly heating cost (twice a day)	49,056/=
Solagen's 30 Gallons water heating system	99,000/=

Investment recovery with heating water twice a day = 1 year, 8 months

Investment recovery with heating water once a day = 3 years, 2 months

After this period Solagen's solar water heating system will be earning you up to Kshs. 49,056/= per year!- assuming electricity power bills remain the same.

***The above calculation done as per the rate in April 2002**

CONSIDER THE ADVANTAGES THEN DECIDE

- ❖ Safe, Clean, Silent, Inexhaustible Environmentally Friendly Energy Source.
- ❖ No Operating Costs.
- ❖ Supply Unaffected By Power Cuts.
- ❖ Minimal Maintenance, Long Service Life.
- ❖ On Sunny Days, More Dependable Than Electricity.
- ❖ Economically Sound Investment.
- ❖ Solar Panel Manufactured By A Joint Venture Of BP Solar & House Of Tatas.
- ❖ Use Of 2.4m² solar panels instead of 2m² to achieve 20% more energy.
- ❖ Highly trained technicians with over 1000 Installations experience.

Invest in the energy of the future today! Call...

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