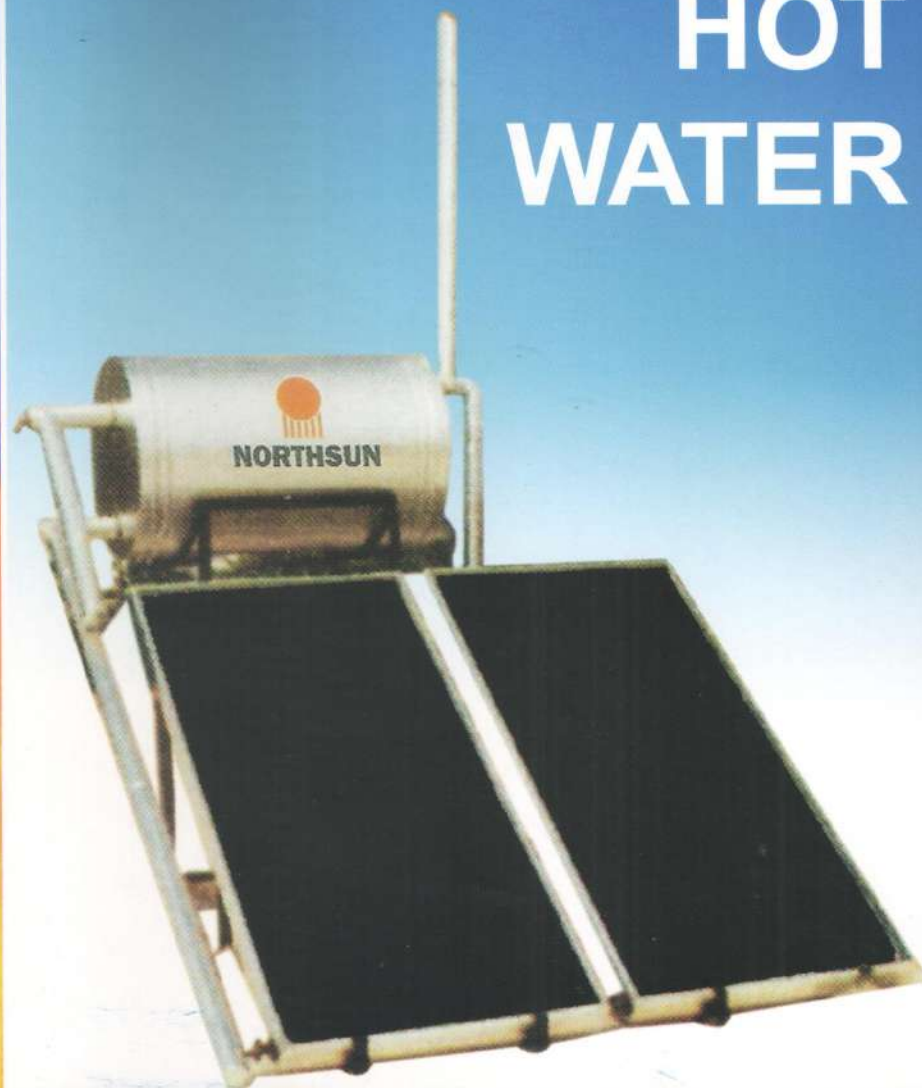


SOLAR ENERGY

The Perfect Solution for

**HOT
WATER**



Power of the sun working for you



NORTHSUN

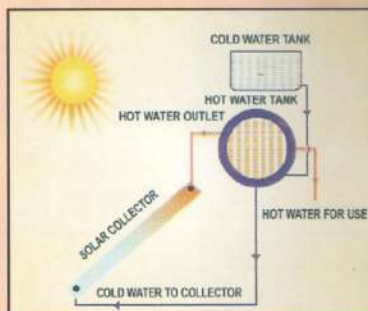
Manufacturers of solar water heating systems beyond comparison

WORKING

Northsun Solar Water Heating System works on the principle of black body absorption. The selective coating used in Solar Collector absorbs Solar Radiation and converts it into 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.

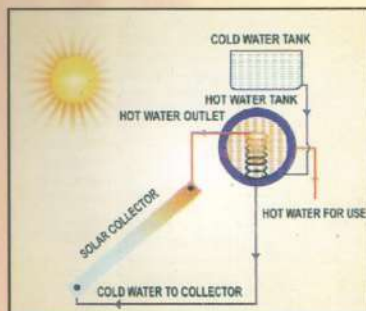


TYPES OF SYSTEMS



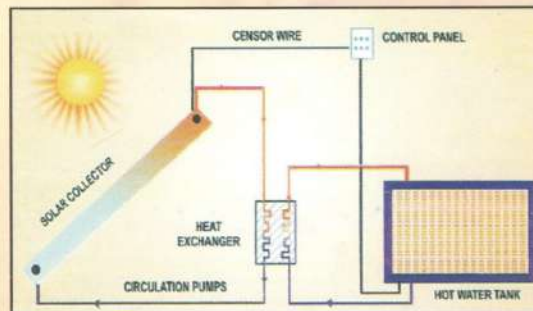
DIRECT HEATING

Direct Heating consists of collectors, insulated hot water tank, inter connecting piping and electrical backup. It heats the water directly and is recommended for water having hardness level less than 80 PPM.



INDIRECT HEATING

Indirect Heating consists of collectors, insulated hot water tank, heat exchanger with makeup tank, inter connecting piping and electrical backup. It heats the water indirectly. Suitable for hard water and for snow bound area for anti freeze.



FORCED CIRCULATION

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

OUR SYSTEM CONSISTS OF

- Air tight body made of non corrosive, non ferrous material capable of withstanding high temperature variations.
- We use selective coating with high solar absorptivity & low emmissivity for the best performance of the system.
- Our System consists of Copper-Copper Laser welded Fin & Tube to ensure 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.
- Horizontal toughened low iron glass is used for better protection & performance.
- Anodised Extruded Aluminium Channel used for extra strength, longer life & attractive look of the collector.
- Modular type construction can heat fluids upto 85 °C.
- Fully automatic controlled systems with digital display boards are designed for Forced' Circulation Solar Water Heating Systems.

SAVING AT A GLANCE

FUEL	CALORIFIC VALUE (K Cal/KG)	Thermal Efficiency (%)	Fuel Saved (KG/Annum)
Fire Wood	4708	17.3	2127
Kerosene	9122	50.0	380
LPG	10882	60.0	265
Coal	3302	75.0	699
Diesel	10004	75.0	231
Electricity	-	90.0	2230 (KWH)

We also design system for Heating Swimming Pool with Solar energy. Our system maintains temperature of swimming pool at $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$ round the clock during winter Season with automatic controls.



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