

Federal & State Government Incentives & Utility Company Incentives

For 2009 the federal government has sweetened its solar tax credit to cover 30% of your installed system cost . Most states and local utility companies currently offer some sort of incentive for the installation of solar hot water systems. Go to www.dsireusa.org for a full listing of current incentive programs in your state.



Designed for Long Term Reliability: Solar Spectrum's system uses design technology that has been proven over many years of operation in Europe, Asia and Australia. All outdoor components are built to withstand tough weather conditions. The solar heat exchange tanks are based on the renowned SuperStor indirect water heaters and are available with the option of boiler back-up, electric back-up or high efficiency fully modulating gas burner back-up.

Represented By:

Emerson-Swan

A Manufacturer's Representative

300 Pond Street
Randolph, MA 02368
(800) 346-9215
www.emersonswan.com



By:



Complete Solar Thermal Packages



Collectors mount to any roof: A variety of mounting options are available that allow the collectors to be optimally placed on any roofing surface in order to achieve the best performance.

Why Solar Spectrum From Heat Transfer Products?

Installing a Solar Spectrum domestic hot water (DHW) system is a good move financially: According to the US Department of Energy, if you install a solar water heater, your water heating bills should drop 50%–80%. Also, because the sun is free, you're protected from future fuel shortages and price hikes.

It's also a smart move when it comes to the value of your home. The US Environmental Protection Agency reported in the prestigious *Appraisal Journal* that a home's value rises on average by \$20 for every \$1 decrease in its annual energy bill.

Most importantly, installing a solar thermal water heating system is the right thing to do for the planet. A dual collector system can reduce CO2 emissions by up to 5 tons per year.

Solar water heating has the greatest return on your investment and is the most efficient form of solar energy currently available. Solar is an affordable, easy way to start reducing your utility bills.



So How Does It Work?

A Solar Spectrum system captures solar radiation through evacuated tube solar collectors. The collectors heat up a heat transfer fluid that gets pumped into a heat exchanger inside your house where the absorbed heat is transmitted to the domestic water or heating circuit. The cooled heat transfer fluid is pumped back to the collector and the cycle is repeated.

Depending on your current DHW set-up, there are two ways if integrating a solar thermal system:

- A solar preheat system which feeds preheated hot water from a solar tank into an existing hot water heater
- A single-tank system where the solar heat exchanger is backed up by either an additional internal heat exchanger fed by a boiler, an electric heating element or a high efficiency, modulating gas burner.

How Much Money Can Be Saved?

The amount of available solar radiation is dependant on the time of year and your location. In northern climates over the course of an entire year a solar system can save 50% to 80% on domestic hot water costs. The winter months will generally see a lower percentage, but during the summer months a highly efficient, correctly installed evacuated tube solar arrangement can account for 85%-90% of the required hot water.



How Much Hot Water Will Solar Spectrum Provide?

An efficient solar heating system will make the best use of whatever sun is available. To produce heat, the sun doesn't have to shine brightly. High efficiency evacuated tube solar collectors have the ability to heat up even on overcast days, utilizing the



smallest amount of solar radiation. Solar Spectrum collectors are designed for northern climates

and in the right configuration can produce enough solar energy to heat up to 70% of an average household's hot water requirements.

Certified By The SRCC

Solar Spectrum's entire system is certified by the Solar Rating and Certification Corporation (SRCC), a non-profit organization whose primary purpose is the development and implementation of certification programs and national rating standards for solar energy equipment. Only systems certified by the SRCC are eligible for the Federal tax credit. Many state and utility incentives require this certification as well.

