



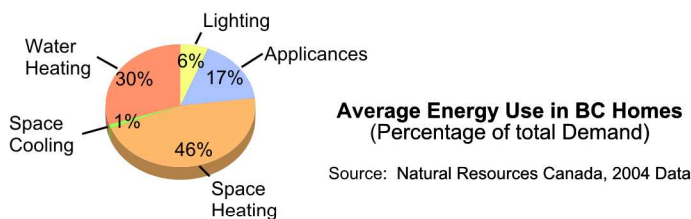
"Your Gateway to Green Energy"

www.terratek.ca

Solar Thermal Systems

Heating Water with the Sun

The average home in British Columbia can attribute about 30% of their energy bills to heating water, and 46% to heating their home. These percentages can be even higher when natural gas or propane are used.



A solar thermal system can be used to supplement hot water and, in some cases, space heating. Do you have an indoor or outdoor pool? Why not make the switch to solar heating!

There may never be a better time to invest in a **Solar Hot Water System**

Current incentives add up to big savings!

\$2000 from SolarBC



In our Coastal Climate, a Solar Domestic Hot Water System can cut your hot water related expenses by up to 60%.

Protect yourself from increasing utility rates!

How it works

SOLAR COLLECTOR (1)

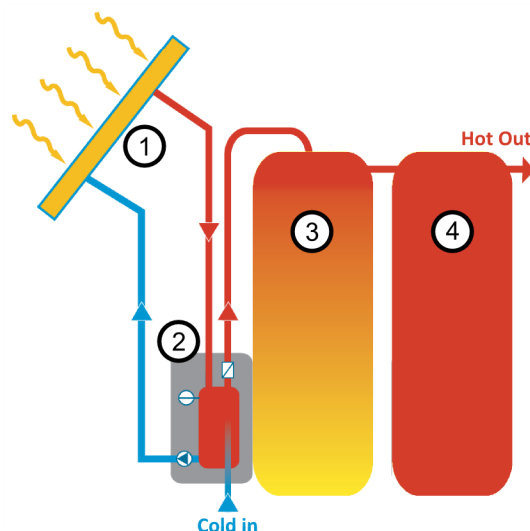
Absorbs energy from the sun to add heat to a fluid. The heat is transferred to the water in a tank using a heat exchanger. For best solar gains, collectors are mounted facing south.

PUMP STATION AND CONTROL (2)

A sensor determines the temperatures of the collector and solar storage tank. When the controller recognizes heat on the collector, the circulating pump is activated.

SOLAR STORAGE TANK (3)

The hot fluid from the collector is circulated into a heat exchanger, which heats the cold city or well water. As hot water is used, pre-heated water from the solar storage tank supplies your back-up hot water heater (4). Back-up can be electric/gas tank, or on-demand.



Contact us Today!

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TerraTek is an Authorized Distributor of



- Canadian made
- CSA approved, EnergySTAR rating
- 10 year warranty

EnerWorks is a closed loop system. The solar loop between the collectors and the heat exchanger is pressurized and contains a mixture of non-toxic food grade glycol & distilled water. This enables the system to operate in temperatures down to - 35 degrees C without freezing. The solar collectors are a glazed, flat-plate construction with tempered glass and a high efficiency solar thermal absorber.

EnerWorks includes features not found on other systems:

• Overheat Protection

Built in to the pumping station and the collectors. When the solar tank reaches maximum temperature, the circulating pump is switched off. When the collectors heat up, a damper on the back of each collector opens, allowing passive air cooling to occur.

• Thermosyphon Loop

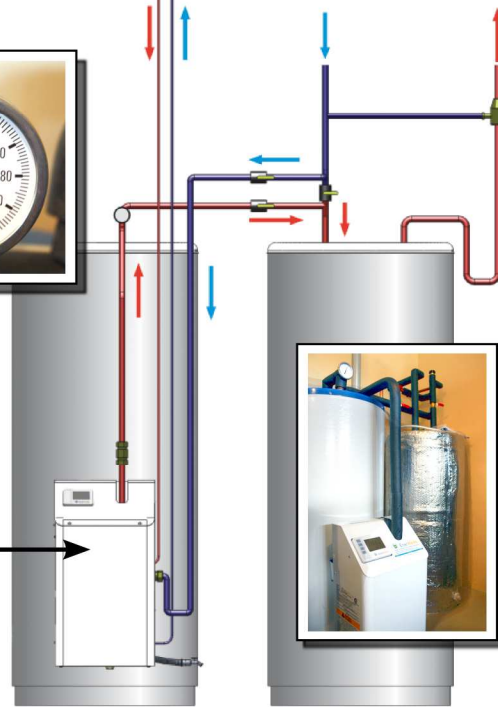
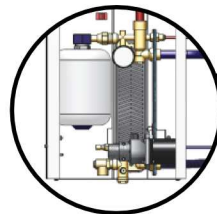
Many other systems only work when you use hot water. EnerWorks will gain heat even when there is no hot water draw. It pulls the cooler water from the bottom of the storage tank, warms it and allows it to thermosyphon to the top of the tank

• Back Flush Valve

A valve periodically back flushes the heat exchanger to prevent scaling (build up of sediment which reduces performance)

• Thermal Energy Monitor

This conveniently displays information such as energy savings, cost savings, greenhouse gas emissions offset, and water temperature. It can be mounted anywhere in your home!



**TERRATEK WINS
SOLAR CONTRACTOR
OF THE YEAR 2008**

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