

## Solar Domestic Hot Water (SDHW) System Description & Components:

A SDHW system is sized based on your hot water usage. The size and number of collectors and the storage tank are adjusted to each situation.

The system components consist of the collectors which resemble skylights. We use high efficiency collectors from a manufacturer w/ many systems still operating since the 1970's. Basically, a collector is an insulated box with a tempered glass surface to allow the sun's rays to heat the specially treated flat plate with copper tubing attached. The collectors are connected to a storage tank by a closed pipe loop that contains non-toxic antifreeze, which is necessary in our climate. The heated antifreeze is automatically circulated to exchange the heat to the domestic water via a heat exchanger. Other components include a controller to operate the circulator pump, an expansion tank and valves. An option is a DC circulator pump that can be powered by a PV module.

While this is a basic overview, Solar Source/H-ER is committed to using only proven components so that the system will last for decades.

This illustration does not include all required components.

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