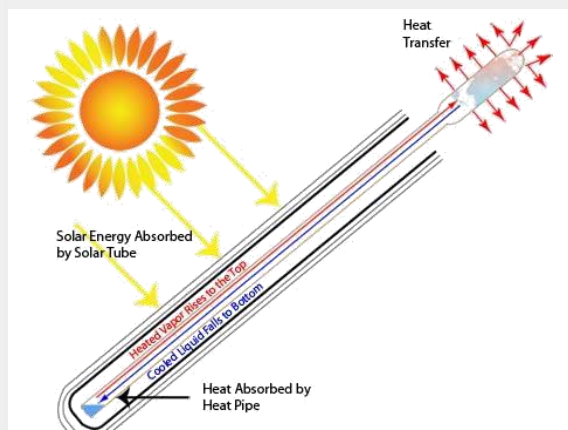


Solar UV Solutions, LLC



SunQuest 250[®] Technology

Solar America's **SunQuest 250[®]** solar thermal collectors produce heat from ultra violet (UV rays), present even on cloudy days, and regularly deliver almost 10 times more BTUs than competitive panels – up to 300,000 BTUs at peak, per 10 hour solar day. This means that for the first time solar thermal collectors can be used to produce large quantities of BTUs (heat) for use in numerous applications including space heating and hot water.



The **SunQuest 250[®]** utilizes evacuated tube technology. UV rays are absorbed by a proprietary coating on the inside collection tube, creating friction and heat that is then transferred by an internal heat pipe up and out through the unit header to interface with conventional hot water or space heating systems.

When the UV rays reach the interior surface of the “collection tube”, heat is created but the sealed vacuum tube is cool to the touch.

The heat collected by these tubes is transferred to a liquid solution at the source and circulated through the heat exchange system in a highly insulated tank of water. As the liquid solution circulates in the closed loop it continues to be re-heated by the collector throughout the day. In the evening, the water tank temperature holds the heat for several hours. Conventional heating systems take over at night when the solar heat dissipates, and – because the **SunQuest 250[®]** begins producing heat again at dawn's first light – solar picks up as the primary heat source the next morning.

We regularly save customers 30% to 50% and more on energy usage, and system payback generally runs around 5 years; some – depending on the amount and application of heat – run less than two years.

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An Authorized SunQuest 250[™] Dealer