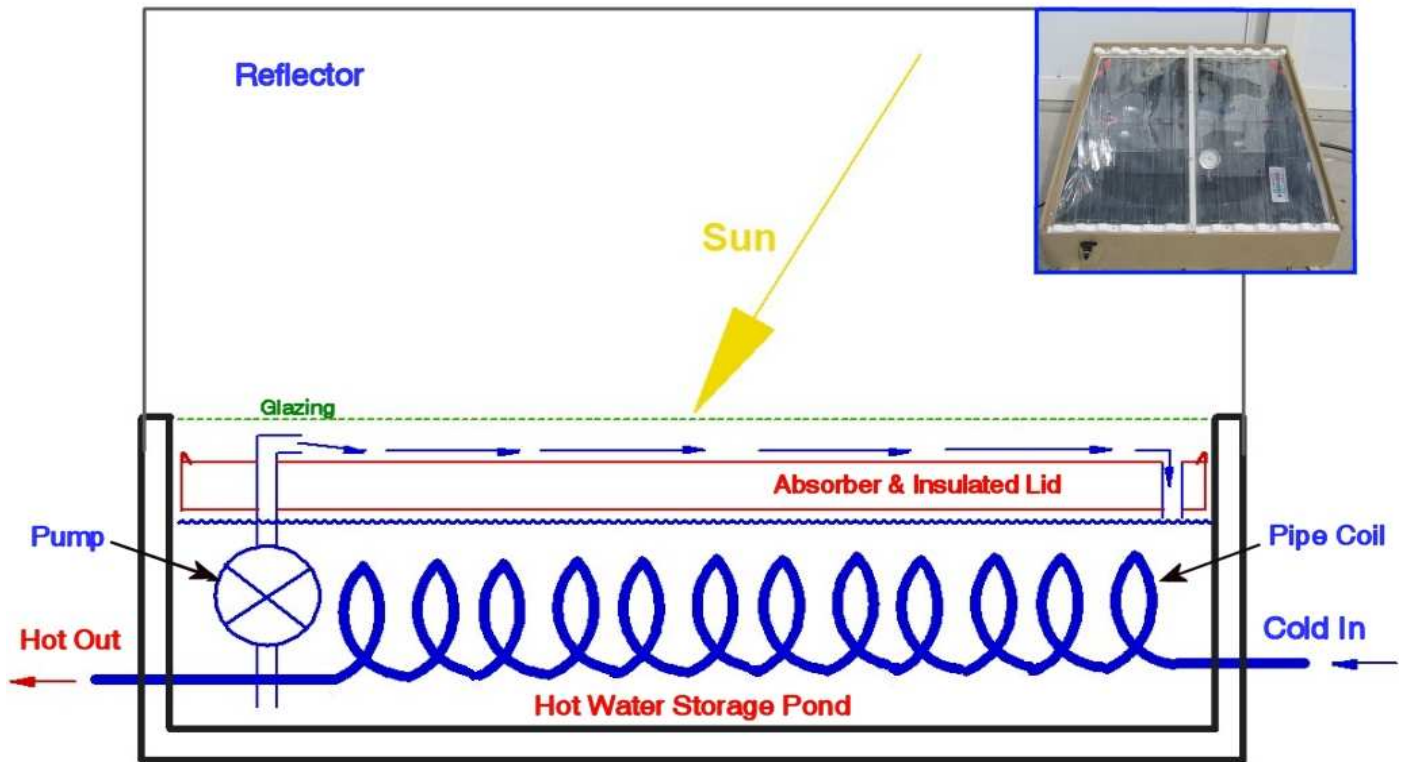


## Solar Water Heater Model



### How it Works

When the sun is shining, water from the pond is pumped over the absorber and is heated. The heated water drains back into the heat storage pond. At night the pump shuts off, and the insulated lid keeps the heat in the pond.

The water supply to the house hot water tank passes through the solar water heater pipe coil first, which preheats the water. For much of the year, the water from the pipe coil will be hot enough that no additional heating will be required.

### Full Size Prototype



Simulations indicate that this size collector will meet most of the hot water demand for a family of 3. Payback period is anticipated to be less than 2 years.

This is still an experimental concept – follow the progress on the Experimental page at <http://www.BuildItSolar.com>.