

Solar Panels Information sheet

How does a solar panel work?

A solar panel works by absorbing the sun's energy through a glass cover. Under the glass cover is an arrangement of pipes with cold water in. The heat energy from the sun warms the water as it passes through the solar panel. This warm water is then pumped away to be used in the house or swimming pool.

How does a solar water-heating system work?

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The heating system is made up of many solar panels like the one above. The picture above shows a lot of the panels joined together making more hot water than just one solar panel. The panels are usually put on the roof because there is nothing to block the sun's light during the day.

A solar heating system is used to heat enough water for an entire house or for a swimming pool.

The solar heater works by pumping the water through a pipe (the blue colour) up to the solar collectors on the roof of the building. Once the water is up to the top of the building, the sun heats the water up. The hot water

(the red colour) is then pumped back into the house to be used for washing, cleaning and to heat the swimming pool.

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How does a solar water-heated swimming pool work?

The water from the swimming pool starts off in the morning being very cold. As the sun comes up the water is pumped through a filter to make it clean. After it is cleaned it is pumped into the solar panel or collector on the roof of the building. When it is in the solar panel the heat from the sun is transferred to the water.

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The water is now heated and warm and is pumped into the swimming pool to warm it up!

This continues as long as the sun is up to keep the water nice and warm.

Some fun things to do on the internet:

HYPERLINK "http://www.eeexchange.org/solar/"
<http://www.eeexchange.org/solar/>

SHAPE * MERGEFORMAT

Cold water in

Hot water out

Suns heat energy

Water pipes