

Solar Hot Water and Evacuated Tubes

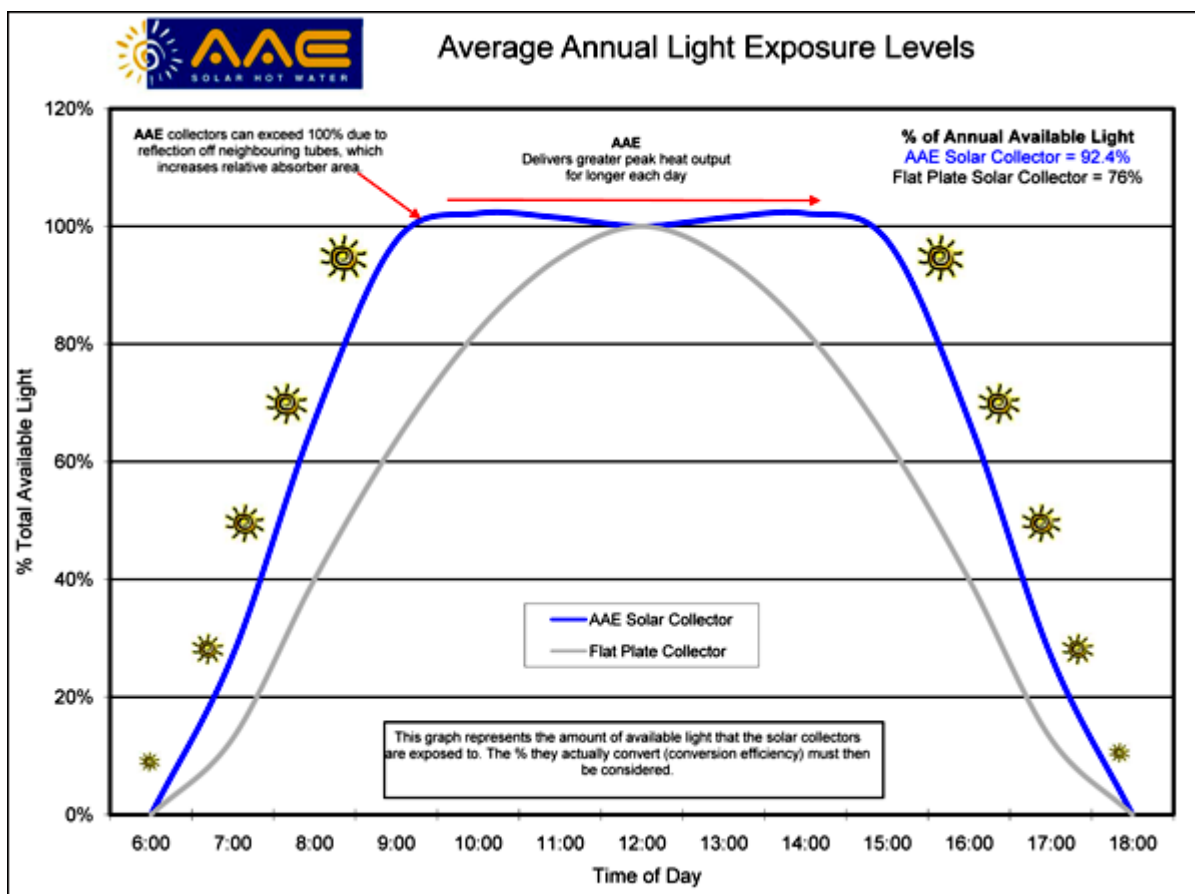
Why Solar?

The benefits of solar are well known. It's from the sun and it's free! Not only are you reducing your hot water costs, by up to 80%, you are making an active decision to help the environment. In fact installing solar is the equivalent to planting more than 200 trees every year.

The AAE solar hot water system is the latest technology in evacuated tubes. This solar system is a refinement on many of the systems available on the market today. In addition to this, the design of this system is up to 20% more efficient than other evacuated tube product on the market today.

Evacuated Tubes

The evacuated tube is not all that new and was actually developed at a Sydney university around thirty years ago. It has been operating successfully for many years in different climates around the world.



AAE tubes themselves consist of an inner and outer tube sealed under vacuum, using 2mm glass (the strongest tubes on the world market), much like your coffee thermos would work. The inside of the tube is then coated in the latest

technology, 12 layer sputted coating for higher efficiency, which absorb the sun's rays and retain the heat. (The AAE evacuated tube has the highest rating in Australia, retaining 97% of the sun's thermal energy.) Positive sun tracking ensure the optimum use of the sun's daylight hours!

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This heat retention allows us to gain up to 250 degrees inside the tube! A copper heat pipe sits within an aluminium fin inside the pipe. This pipe contains just a few mls of water and is also under vacuum.

This design allows the water to steam at approx 30 degrees and stay in this form continually. The pipe collects this heat in a head, which super heats and transfers the heat to the manifold. The water flowing over the receptors takes this heat transfer to give you the highest efficiency evacuated tube collector available in Australia. The manifold and frame are made from highly durable, extruded anodized alloy with the latest European styling.

