

THERMAL SOLAR



We offer two types of collectors – passive and active / evacuated tube. We supply sizing, design, pumps, controls, tanks, filters, mounting hardware and valves.

Passive Solar – TCT Collectors are “all in one” collectors. The benefit is that they are inexpensive first cost, and have ZERO moving parts to repair or replace. The collector is aluminum frame with rolled copper 4” tubes, which allow for 20, 30, 40, 50 gallons of storage per collector. You MUST consider the weight when designing with this style collector.

Active Solar – Two types – flat plate and evacuated tube. We chose evacuated tube for many reasons. Evacuated tube is lightweight, it can be hung on a vertical wall or put on a roof, tubes allow for modular installation flexibility, wind loads are much higher, they collect and retain, over a one year period, 2.5 times per square foot the energy of a flat plate of equal size, and evacuated tube collectors can achieve over 500 degrees F for processed heat.

Summary – In our humble opinion, the two best types of collectors are progressive tube (passive solar) and evacuated tube (active solar). Basic flat plate collectors are inferior in design and performance.

Return on Investment – It is also our humble opinion that payback / ROI is best achieved when the user looks at 100% of the places they can consume this free energy source. We suggest:

- Domestic hot water back up with gas tankless
- Dehumidification with hot water reducing humidity or latent load will result in lower calls and less work on your A/C unit to handle the sensible
- Space heating with our Summeraire water coiled air handler
- In floor heat or floor warming
- Spa heat*
- Pool heat*

*Currently do not qualify for the 30% federal uncapped credit – everything else does.

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www.intsales.com

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