

Mounting Panel Frame to the Roof

5/16" x 5" Lag bolts & Washers to go through frame foot pad and roof into timber. Set of 4 per pad.

Large nails or lag bolts to attach timber to trusses.

4x8 timber to create a support between trusses in roof.

Silicone to seal lag bolts in roof from leaking.

Running Plumbing for system

5/8" type L or type K copper pipe - rolled or hand drawn.

Various fittings to adapt to existing plumbing (depends on current configuration, turns, sizes, etc.).

Shutoff valve for servicing the system.

5/8" pipe union on solar array

NOTE: Fittings on solar array, circulating pump, and instant water heater are 5/8" NPT male. The instant water heater includes (2) 5/16" to 3/4" bushings to adapt to larger pipe if necessary with original plumbing.

Pipe strap and clamps to secure pipe.

Pipe insulation with at least 1/2" wall

T-connector for recirculation of water in to drain side of tank.

Solder and flux.

Wiring for temperature control

110V outlet - unit is plug in - not hard wired.

26 Gauge - 2 conductor UV resistant wire to extend sensor wire as needed

Wiring for instant water heater

220 V circuit with a 30 to 40 amp breaker.

Additional Parts possibly needed

Steam / Pressure release valve for pipe near array and tank

Mixing valve before water goes into house