Run On Sun

SPHE solar water heater that can work in conjunction with or without a wood fired stove.

- The tank is vented to atmosphere; this allows it to be connected to a wood fired stove.

- A 40-meter long copper coil inside the tank works has a heat exchanger; the household hot water is delivered via this copper coil at normal household pressure.

- Most heat exchange systems come with a built in 20-meter long coil, this requires the water in the tank to be of a very high temperature to be effective at delivering hot water to the house. The double length Run On Sun copper coil does not need the water to be of a very high temperature, it just needs to be hot to deliver hot water to the house.

- Includes a 25-litre cistern, which has a dual function.
  1. Keeps the tank topped up with water.
  2. Allows close to 20-litres for hot water expansion so water is not wasted.

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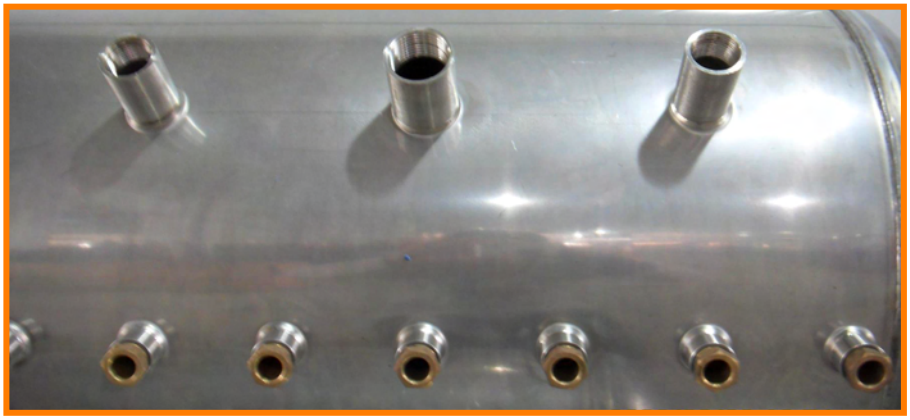
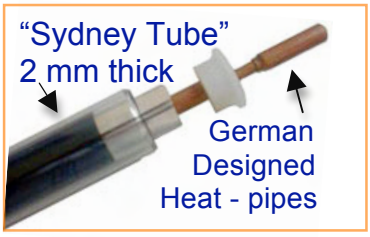
Both stove and radiator fittings built in.

The finished 1.5-mm thick marine grade stainless steel inner tank.



The 8 cm long copper-heating Sleeves are flanged at the end. Totally leak proof.



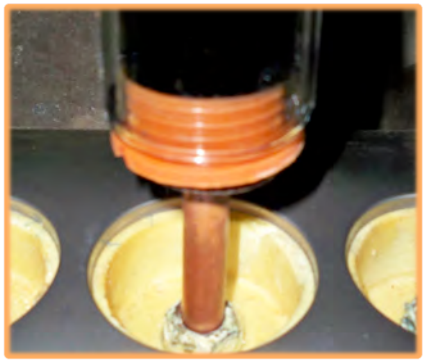
The long heat pipe sleeves have close to double the surface area that is in direct contact with the water in comparison to other evacuated tube systems.

Vacuum-sealed copper heat pipes with 8 cm long bulbs that start generating steam at around 25 deg C.

Finished outer with insulation.

Quality welding

8-cm of direct plug for direct heat.



Virtually no heat loss from the evacuated tubes during winter.

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Some manufacturing pictures from our 2023 batch:

40-meters of copper coil inside the tank:

The finished 1.5-mm thick inner tank:

The foaming (Insulation) process:

Attaching the coil fittings to the finished tank:

Current prices:

All prices include the following:

1. Heavy-duty 10 or a 30-degree pitch stainless steel frame.
2. 25-litre cistern with fixing brackets and connection hose.
3. Solar check valve and a 600-Kpa expansion control valve.
4. A Spare tube for the 220-litre model and 2 spare tubes for the 270-litre model.
5. Packing onto a heavy-duty custom made pallet for Australia wide road transport.

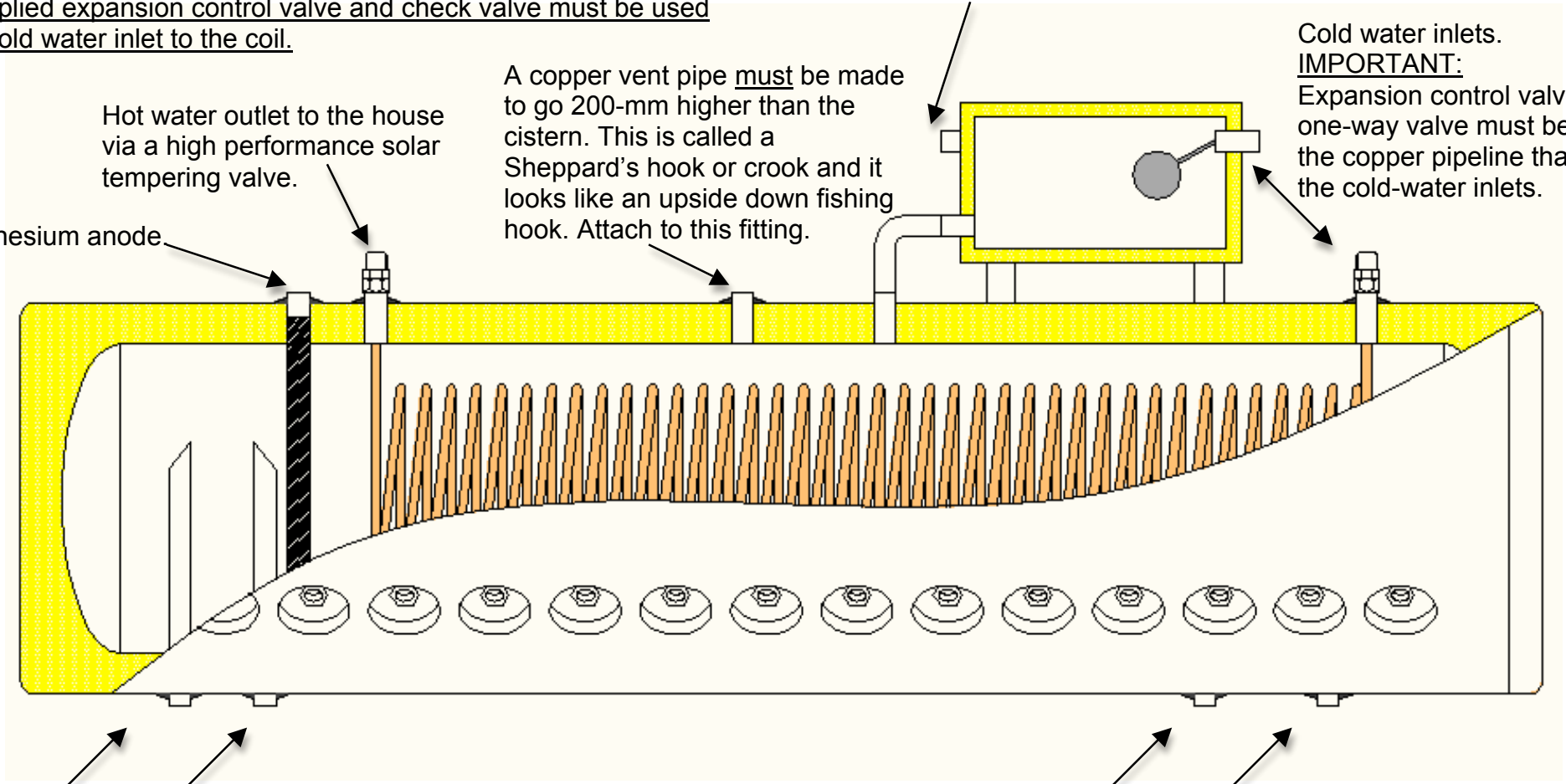
SPHE220-24 $3750
SPHE270-30 $4250

Contact:
Phone Andrew on 02 6734 6322
Email andrew@runonsun.com.au

It is vital that a licensed plumber is used when plumbing the tank to the house.

Latest tank configuration:

Please read this page carefully and follow instructions.
A solar tempering valve must be used between the hot water outlet and the household taps.
The supplied expansion control valve and check valve must be used for the cold water inlet to the coil.



Two riser pipes:
One is used for the hot water returning to the tank from the top fitting on a wet back stove.
The other can be used for circulating hot water through a radiator or convection heater.

Two non-riser pipes.
One is used for the cooler water to go to the bottom fitting on the wet back stove.
The other can be used for the returning water from a radiator or a convection heater.