

## SunPump – 3.5 to 14 kW Construction Rough-In Guide

Prepare for **4 connections** on the right-side; electrical, refrigerant, space and hot water.

**Electrical** has one 15-30 Amp for the Heat Pump; and second 30 Amp for the element. A connection box should be high on the right

**R410a** full-length pre-insulated copper line set is installed in interior wall conduits. A pair of 2" PVC conduits could be installed from Mechanical room to the Attic using an interior wall and without any elbows – the pipe must be straight. Avoid humid air condensation with air-tight continuous air sealed pipes. Use a 4"x4" box to finish line-set entrance into room for drywall and air-sealing. Include two 20-24g 2-wire for sensors, one by the Panels, the second to an exterior wall under a soffit.

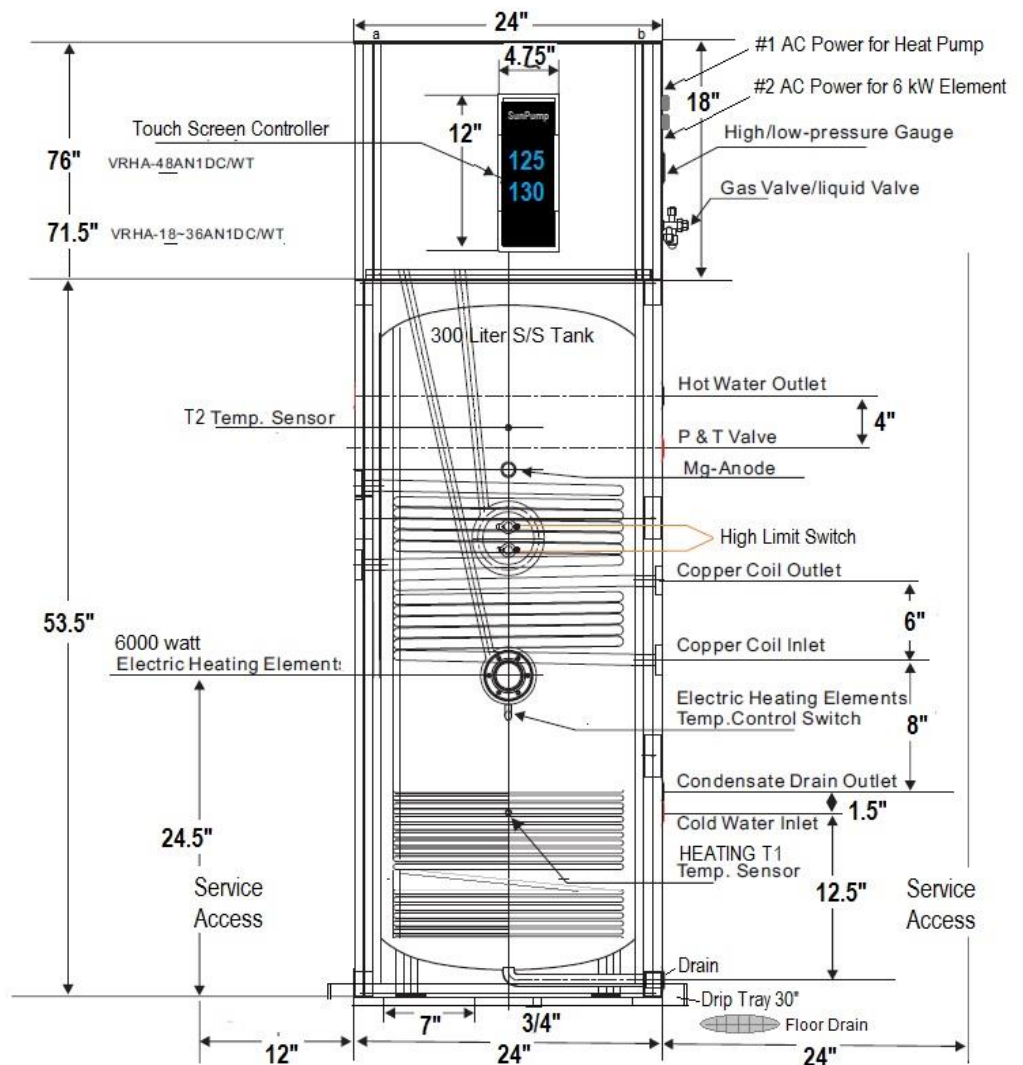
**Potable Hot water** must use the copper coil when Double-Wall protection is required, with **Radiant Heating water** stored in the tank. For Single-Wall code locations the tank can contain Potable and Coil for floor Heat.

**Seismic Straps** may require wood backing at 24" and 48" above floor. Use duct cleats.

**Floor drain** is better on the right-side.

**Drip Tray** is required prior to connections.



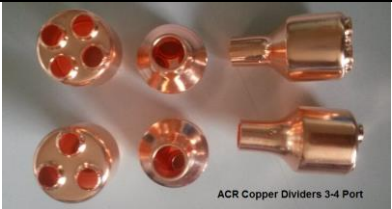


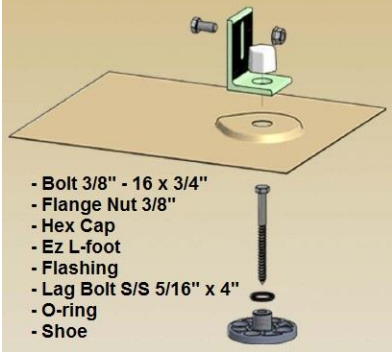
**Service Access** The indoor SunPump appliance needs 12" on Left plus 24" on Right as a minimum for maintenance space.



Ask for the Installer Manual for more details. [info@sunpump.solar](mailto:info@sunpump.solar)

A **Mechanical Design and Radiant Design** service is offered at 1/4 cost, enquire for a quote.

## Balance of System (“BOS”) Installer Sourced Local Parts

✓	Part Image	Description	Amount
<input type="checkbox"/>		Full-length pre-insulated Line-Set as shown with white insulation. Avoid bare ACR copper tubing with DIY insulation added because it will sweat and drip condensed water.	
<input type="checkbox"/>		Thermostat wire for Air and Panel Sensors. AWG-20 to 26 gauge 2-wire. Solder wires, or optionally apply JST crimp connectors.	
<input type="checkbox"/>		ACR copper 2, 3, and 4 port dividers for making your own equal 1/4-inch-tube liquid branch length and flow panel manifold.	
<input type="checkbox"/>		Oatey 30" square appliance drip tray used for washing machines. Have on site prior to delivery because it needs to be under the SunPump before connection	
<input type="checkbox"/>		Roof line set flashing placed above panels facing down slope. This example is the AC-UC from Quickflash. The Ecco 5-in-1 cone flashing is a wholesaler stocked alternative.	
<input type="checkbox"/>	 <ul style="list-style-type: none"> <li>- Bolt 3/8" - 16 x 3/4"</li> <li>- Flange Nut 3/8"</li> <li>- Hex Cap</li> <li>- Ez L-foot</li> <li>- Flashing</li> <li>- Lag Bolt S/S 5/16" x 4"</li> <li>- O-ring</li> <li>- Shoe</li> </ul>	L-Foot kits are available from SunPump for shingle-flashing, or corrugated metal types. Standing Seam metal uses a S-5 block clamp equivalent. Contact us for Flat roof, Tile, for special roof fastener suggestions.	
<input type="checkbox"/>	Other BOS parts:		