

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.

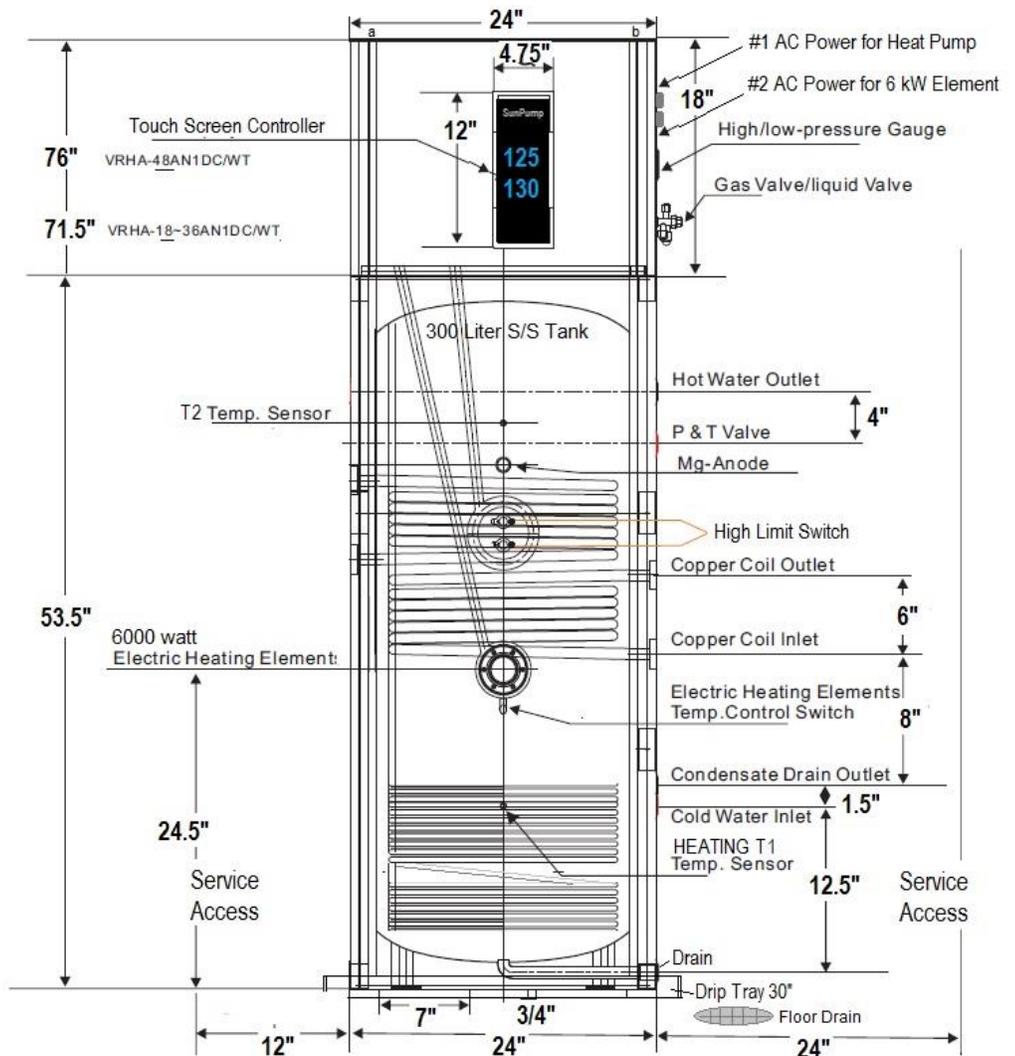
Potable Hot water must use the copper coil when Double-Wall protection is required, with **Radiant Heating water** stored in the tank. For Single-Wall code locations the tank can contain Potable and Coil for floor Heat.

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.

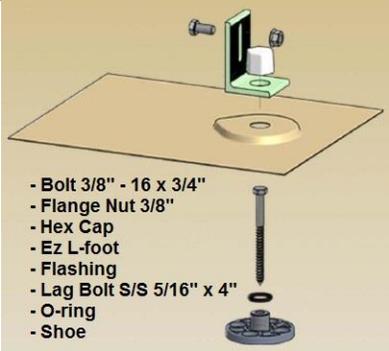
Service Access The indoor SunPump appliance needs 12" on Left plus 24" on Right as a minimum for maintenance space.



Ask for the Installer Manual for more details. info@sunpump.solar

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"/>	 <small>Air + Panel Sensors JST Connector 2-pin 24g wire</small>	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"/>	 <small>ACR Copper Dividers 3-4 Port</small>	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">- Bolt 3/8" - 16 x 3/4"- Flange Nut 3/8"- Hex Cap- Ez L-foot- Flashing- Lag Bolt S/S 5/16" x 4"- O-ring- Shoe	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:		