

Models: SET-8, SET-18, SET-35

Solar Hot Water Expansion Tank

Installation Instructions

Disclaimer: The manufacturer of this tank does not accept any liability or other responsibility for personal injury or property damage resulting from improper use, installation or operation of this tank or the system of which it is a part.

Notice: The expansion tank, piping and your connections may in time leak. Select a location to install the expansion tank where a water leak will not damage the surrounding area. The manufacturer is not responsible for any water damage in connection with this expansion tank.

Installation

1. Use appropriate methods to determine correct pre-charge for expansion tank. This is typically the same as or slightly lower than the solar loop initial pressure setting.
2. The normal tank pre-charge is 20psi. If this needs to be adjusted, follow the instructions below.

Caution: Pre-charge prior to installation in the system. Do not adjust the air pre-charge of the expansion tank with the system under pressure. The air pre-charge should only be adjusted under zero pressure.

- a. Unscrew the protective cap from the air inlet valve.
 - b. Using a tire pressure gauge, check the tank pre-charge pressure.
 - c. If necessary, pressurize the tank to the proper setting using a manual bicycle tire pump.
 - d. Replace the protective air cap.
3. Complete all high-pressure system tests prior to connecting expansion tank to system.



Air Inlet Valve

4. Install the expansion tank in the system.

Caution: There should not be a shutoff valve located between the expansion tank (and the pressure relief valve) and the solar collector(s). This will help maintain safe operating conditions should parts of the system need to be isolated for any reason.

- a. The weight of the expansion tank filled with water can be considerable. Therefore, it is important that, where appropriate, suitable bracing (strapping, hanger, brackets) is used to support the tank and/or piping.
 - b. The expansion tank may be installed vertically (preferred method) or horizontally. Caution: The tank must be properly supported in horizontal applications.
 - c. This expansion tank, as all expansion tanks, may eventually leak. Do not install without adequate drainage provisions.
5. Fill and purge system. Set system pressure appropriately.

Caution: Pre-charge prior to installation in the system. Do not adjust the air pre-charge of the expansion tank with the system under pressure. The air pre-charge should only be adjusted under zero system pressure.

If necessary, adjust the pressure reducing valve to the expansion tank pre-charge as determined in Step 2.

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, serious bodily injury or death. Read instructions completely before proceeding with installation. Only qualified personnel may install or service this equipment in accordance with local codes and ordinances.

This Expansion Tank is designed and intended for water/solar fluid storage at a maximum pressure of 150psi (10.3 bar) and a maximum temperature of 240°F (116°C). Any use other than for water/solar fluid or a sustained or instantaneous pressure in excess of 150psi (10.3 bar) or 240°F (116°C) is **UNSAFE** and can cause property damage, serious bodily injury or result in death.



	SET-8	SET-18	SET-35
Description	Order No. 0066616	Order No. 0066617	Order No. 0066618
Max. Pressure - psi	150	150	150
Max. Temp. - °F	240	240	240
Tank Volume - gal.	2.1	4.8	9.2
Tank Acceptance - gal.	1.05	2.4	4.6
Air Pre-charge - psi	20	20	20
Connections Size - in.	3/4 male	3/4 male	3/4 male
Diameter - in.	8.1	11.2	12.5
Length - in.	12.7	14.7	18.9
Weight - lbs.	5.7	9.5	15.4

Important!

- A pressure relief valve sized and installed in accordance with local codes must be incorporated in the systems requiring a combined temperature and pressure safety relief valve. The temperature and pressure safety relief valve should be sized and installed in accordance with local codes.
- Never plug a safety Relief Valve.

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CALIFORNIA PROPOSITION 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: www.watts.com/prop65

Limited Warranty: Watts Regulator Co. (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

THE WARRANTY SET FORTH HEREIN IS GIVEN EXPRESSLY AND IS THE ONLY WARRANTY GIVEN BY THE COMPANY WITH RESPECT TO THE PRODUCT. THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. THE COMPANY HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.

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