



INDUSTRIES LIMITED

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Charging Pressure System Tanks

This tip will work for any pressure demand water system and may be particularly helpful to anyone who has a system like that in a cottage. These packages typically have a pump, a pressure switch, and a pre-charged pressure tank, sometimes referred to as a drawdown tank. It's not uncommon for some of the air charge in the tank to be lost over time through minor leaks in the air charging valve and/or migration through the diaphragm.

In order to maintain consistent water pressure, maximize the drawdown capacity of the tank, and minimize pump cycles the air charge in the tank should be adjusted to about 2 psi below the cut-in setting on the pressure switch. To check this, start with the system up to pressure and the pump off. Slowly draw water from the system while watching the pressure gauge and note the pressure when the pump starts – the cut-in pressure. Then, shut the pump off and draw or drain water until there is *no pressure on the water side connection to the tank (very important!)*. You can then check the pressure of the air charge in the tank using a tire gauge and adjust it if necessary.

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