

Wilo MaxAir™ – Installation and Operating Manual

Hydropneumatic Pressure Tanks

1. System Connection

1.1 Inline Models 0.35, 0.5, 2.0, 3.2, 4.5, 6, 10 Gallons

Inline models are conventionally installed directly in the water supply line with a 3/4" connection. The 0.35 gal. tank uses a 1/2" connection.

1.2 Vertical Stand Models 14, 20, 28, 32, 34, 44, 62, 81, 120 Gallons

The 14–32 gallon tanks are equipped with plastic stand base and 1" connection. The 34–120 gal. tanks are equipped with 1 1/4" connection and steel support base.

1.3 Horizontal Models 4.5, 6, 10, 14, 20 Gallons

Horizontal models are equipped with a plastic stand and use a 3/4" connection (4.5 –10 gallon tanks) or 1" connection (14, 20 gallon tanks)

2. Location

2.1 Proper Pressure Tank Location

The pressure Tank should be installed as close as possible to the pressure switch. This will reduce the adverse effects of added friction loss and pressure switch bouncing, and the difference in elevation between Pressure Tank and switch.

WARNING! EXPLOSION HAZARD

WHEN PRESSURE TANK HAS BEEN IN SERVICE AND A CHANGE IN THE PRESSURE IS NECESSARY DUE TO A REQUIRED CHANGE IN THE PRESSURE SWITCH SETTING, FAILURE TO FOLLOW INSTRUCTIONS BELOW CAN CAUSE A RUPTURE OR EXPLOSION, POSSIBLY CAUSING SERIOUS OR FATAL PERSONAL INJURY, AND/OR PROPERTY DAMAGE.

- DO NOT ADJUST OR ADD PRESSURE IF THERE HAS BEEN A LOSS OF AIR
- DO NOT ADJUST THE PRE-CHARGE PRESSURE IF THERE IS VISIBLE EXTERIOR CORROSION
- DO NOT ADJUST THE PRE-CHARGE PRESSURE IF THERE HAS BEEN A REDUCTION OF THE PUMP CYCLE TIME OR THE PRE-CHARGE PRESSURE COMPARED TO ITS INITIAL SETTING. THIS IS BECAUSE REDUCTION IN PUMP CYCLE TIME CAN RESULT FROM LOSS OF TANK AIR PRESSURE WHICH IN TURN CAN MEAN THERE MAY BE INTERNAL CORROSION AND ANY RE-PRESSURIZATION OR ADDITIONAL PRESSURE COULD RESULT IN RUPTURE OR EXPLOSION.

3. Adjusting Pre-Charge Air Pressure, Prior to Installation

- Step 1.** Remove protective air valve cap
- Step 2.** Check pre-charge pressure (pressure should be + or -10% of the factory setting)
- Step 3.** Release or add air necessary to make the pre-charge pressure 2 psig below the pressure switch pump cut-in setting. (Example, if you have an 4.5 Gal Tank with a pre-charge of 40 psig, and you have a pressure switch setting of 40/60 psig, adjust pre-charge of your tank from 40 psig to 38 psig.)
- Step 4.** Replace protective air valve cap.

WARNING! EXPLOSION HAZARD

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN CAUSE A RUPTURE OR EXPLOSION POSSIBLY CAUSING SERIOUS OR FATAL INJURY, FLOODING, AND /OR PROPERTY DAMAGE.

4. System Connection

1. Locate the Pressure Tank in the final desired location
2. Level as necessary
3. To eliminate friction loss, do not reduce the pipe size from the pump to the Pressure Tank.

5. Start Up

5.1 Fine Tuning Procedures

Many times the actual pressure switch will vary from the standard pressure range indicated. These variations could cause a momentary lag of water delivery, as the pressure switch is not "tuned to the tank pre-charge pressure".

1. Fill the system and Pressure Tank until pumps cut off.
2. Open one or more fixture to drain the Pressure Tank.
3. If there is a momentary pause in the water flow from the time the Pressure Tank is emptied and the pump starts, adjust pump cut-in setting clockwise slightly.
4. Close fixtures and refill Pressure Tank to pump cut off. Check time to fill.
5. Open fixtures and see if pause in water is eliminated. If not, continue adjusting pressure switch.

CALIFORNIA PROPOSITION 65 WARNING!

This product contains a chemical known by the State of California to cause cancer and to cause birth defects or other reproductive harm. (California Installer/Contractor California law requires that this notice be given to consumer/end user of this product.) For more information: www.wilo-usa.com

Periodically Safety Inspection

The Pumping Piping System and Pressure Tank require safety inspection every 6 months by a licensed professional.

Customer Self-Check Sheet

Date of Inspection	Professional Sign Up

Please keep this sheet and provide with Warranty Claim