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WELLMATE® RESIDENTIAL CAPTIVE AIR TANKS - CLASSIC

INSTALLATION INSTRUCTIONS

INSTALLATION

IMPORTANT: For your safety, please read entire installation manual before attempting to install this product.

Never install the tank where it can freeze.

A pressure limiting device or pressure relief valve **MUST** be installed with this tank. The warranty is **VOID** if the system pressure or temperature exceeds the maximum operating rating on the tank label.

When using a pump with an air injector, the injector port must be plugged.

The tank is prepressurized from the factory. The precharge pressure may vary somewhat from tank to tank due to temperature and the length of time in storage. Check and adjust precharge according to the instruction manual when completing the installation.

WARNING: Failure to install and operate this tank according to the manufacturer's recommendations may cause the tank to fail, resulting in fatal injury, property damage and/or render the tank inoperable. This tank is prepressurized. Under no circumstances should the tank, fittings or connected system be disassembled prior to the complete discharging of air and fluid pressures.

WARNING: Before starting the installation, please read all installation information and supplements.

1. Turn off electrical power to the pump at control box
2. If replacing an existing tank, drain and depressurize system of water and air pressure. Remove old tank.
3. Remove tank from box and attach a union or tank cross to the drain assembly at bottom of tank. Use plumber piped thread compound or tape on plastic threads of drain assembly to ensure a water tight connection.

CAUTION: Do not over-tighten pipe connection at tank bottom. Twist thread connection on by hand until tight. Use back up wrench to support pipe extension when tightening connection.

4. Place tank in vertical position on a level surface. The base should be fully supported to ensure maximum stability.

5. Connect all plumbing lines

NOTE: Prevent the tank connection from heating up if you are sweating fittings.

6. An adequately sized pressure relief valve must be installed on the inlet line to the tank. The relief valve must not be isolated from the tank by a check valve and must be set so that the maximum operating pressure of the tank is never exceeded.
7. Check and adjust precharge air pressure of the tank while still empty. The precharge pressure must be set at 4 psig (0.28 bar) below the low pressure limit of the system. Replace the air stem cap, firmly tightening on the air stem.

NOTE: For applications with high flow rates, high system pressures, or elevated water and/or air temperatures, it is recommended to increase the precharge differential to 10 psig (0.69 bar) below the low pressure limit of the system.

Typical System Pressure Range	Precharge
30-50 psig (2.07-3.45 bar)	26 psig (1.79 bar)
40-60 psig (2.76-4.14 bar)	36 psig (2.48 bar)

8. Turn on system and check to assure all connections are leak free.
9. Do not exceed listed operating specifications on tank opening label.

NOTE: All plumbing should be in compliance with local codes and standards.



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