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# WELLMATE® RESIDENTIAL CAPTIVE AIR TANKS

## CLASSIC QUICK CONNECT - INSTALLATION INSTRUCTIONS

**Important - For your safety, please read the 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 and 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 and remove the old tank.
3. Remove tank from box and attach threaded connector to manifold or tank tee (Figure 1).

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

5. Press tank drain into the plastic connector used in Step 3 (Figure 1).

*NOTE: O-ring on fitting must be lubricated.*

6. Insert red H-clip to lock fitting into drain assembly (Figure 1).

7. Connect all plumbing lines.

*NOTE: Prevent the tank from heating up if you are sweating fittings. If you are using the brass sweat connector, remove O-ring prior to sweating the connector.*

8. 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 at the front of the tank is never exceeded.

9. 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 the following conditions: 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

30-50 psig (2.07-3.45 bar)

40-60 psig (2.76-4.14 bar)

### Precharge

26 psig (1.79 bar)

36 psig (2.48 bar)

10. Turn on system and check to assure all connections are leak free.

11. Do not exceed listed operating specifications on tank operating label.

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



Figure 1 Drain Assembly

### FILTRATION & PROCESS

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