TSM QUICK INSTALL INSTRUCTIONS

1. Mount or place the TSM unit at the desired location. Install rubber feet if shelf mounted. If the TFA-500 type prefilter assembly was provided with the TSM system the TSM can be assembled together with the TFA unit and the complete assembly wall mounted. Or, if desired, the TSM can be shelf mounted and the TFA wall mounted nearby.

2. PROVIDE PRE-FILTERED FEED WATER. If the TSM was not provided with a TFA prefilter unit it will require a 10 micron, 2.5"x20" sediment filter on the feed supply. If the feed water is chlorinated, a 2.5"x20" GAC or carbon block filter should also be employed after the sediment filter.

3. Plumb 1/2" OD plastic tubing from the pre-filter to the TSM FEED connector. A 90- degree elbow adapter is provided with the TSM if needed for proper tubing layout.

4. Plumb 1/2" tubing from the TSM PRODUCT connector to the product water storage tank. An elbow adapter is also provided for this tubing run if needed. The standard TSM configuration is for product water storage in bladder type tank. If the system was ordered with the optional control cord for atmospheric product storage tank connect the wire cord hanging from the right pressure switch to the leads of the atmospheric tank float switch. The tank float switch used for this configuration must be rated for 15 A switching load minimum. BE AWARE THAT THESE LEADS CARRY LINE VOLTAGE WHEN THE SYSTEM IS CONNECTED TO POWER.

5. Plumb 1/2" tubing from the TSM DRAIN connector to a convenient waste drain. Local plumbing codes may require use of an air gap for such drain connection. If so, consult a local plumbing service for the proper drain connection arrangement.

6. Open the VESSEL PRESSURE CONTROL knob full counter-clockwise. Place the OFF-AUTO lever on the tank pressure switch in the OFF position.

7. Apply feed water pressure to the TSM unit. Check for leaks at the feed tubing connections.

8. If the TSM was ordered configured for external product tank float switch control there will also be a length of power cord coiled at the left side of the system alongside the main power cord. Connect the power cord with the pigtail ends to the float switch cord. Be advised that the float switch needs to be rated for 1 HP motor loads or higher. After connecting the float switch, if any, check the power specification given in the unit label (located on the base plate near the left side). Plug in or connect the correct AC electric power to the TSM unit. Be aware that when the power cord is connected there will be line voltage present on the cord connected to the float switch.

9. Place the OFF-AUTO lever at AUTO. The TSM pump should start. There may be 2 or 3 re-starts as the pump clears air from the plumbing lines and filter and pressure vessels. If the unit re-starts continuously, either the feed water plumbing is inadequate for the pressure/flow requirement of the TSM unit or the pre-filter(s) are presenting too much flow restriction to the feed stream.

10. Open the flush valve (turn the black arrow knob to point down) for 30 seconds to help the air purge, then turn the valve knob back to the pointing out position.

11. Slowly turn the vessel PRESSURE CONTROL clockwise until the VESSEL IN PRESSURE gauge indicates between 110-150 psi. Refer to the production test sheet at the end of the manual for typical operating pressure.

12. At this point the TSM system should be operating normally. For bladder storage tank installations, when the product water tank pressure reaches approx. 60 psi the TSM will shut down. When the tank pressure drops to approx. 40 psi the TSM will re-start. For atmospheric storage tank installations the TSM will shut down when the float switch rises to the tank full level (contacts will open) and then restart when the tank water level drops to the point where the float switch actuates and closes its contacts.

Refer to the instruction manual for initial start up flushing procedures.