

TSM-E 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 a bladder type tank. If the system was ordered with the optional control cord for atmospheric product storage tank connect the wire cord marked for float switch connection to the leads of the atmospheric tank float switch.
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.
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 the optional external product tank float switch control there will also be a length of cord coiled at the left side of the system near the main power cord. Connect this cord to the pigtail ends to the float switch cord. If the system was ordered with the optional pretreat lockout control there will be a second two wire cord marked "pretreat lockout". Connect this cord to the aux switch inside the pretreat filter control valve (see page 12). After connecting the float switch and pretreat lockout switch, if either, 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.
9. Press the power button on the face of the control enclosure to turn on (requires 2-3 seconds hold to actuate). After a brief delay the INLET VALVE indicator will light and a 30 second pre-start flush will commence. After the flush period 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 a few times and then stays off with the LOW PRESSURE red lamp lit steadily either the feed water plumbing is inadequate for the pressure/flow requirement of the TSM unit or some other condition is preventing adequate pressure and flow to the TSM system..
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.