

Aquatec 8800 RO Booster Pump #92317

Installation Instructions



Please read these Operational and Installation Guidelines before installing the PAB8800 Series Booster Pump. If additional help is needed, please consult the Factory.

CAUTION:

1. The pump is equipped with either a fixed or adjustable bypass valve which controls the maximum operating pressure. In addition, never subject the pump to pressures above 125 PSI (8.5 bars).
2. Never operate the pump in harsh environment or hazardous atmosphere, since motor brush and switch may cause electrical arcing.
3. Pumphead materials are designed for use with water only. Do not use with petroleum products.
4. As long as there is feed water pressure, the pump will not stop forward flow of water even if the motor is turned off. Be sure the system has positive means of shutting off water supply.
5. Always consider electrical shock hazard when working with and handling electrical equipment. If uncertain, consult an Electrician. Electrical wiring should only be done by a qualified Electrician per Local and State Electric Codes.

MOUNTING:

- A. The pump should be mounted in a dry place and away from any source of heat. If an enclosure is used, special provisions for cooling the motor may be necessary. Certain models may be ordered with a thermal protected motor.
- B. Do not subject the Pump to extreme high or low (freezing) temperatures while in operation. (Operating ambient temperatures range is 32°F to 115°F)
- C. The pump may be mounted in any position. If “ceiling mounted”, however, with the pump head upside down, air entrapment may reduce the operational performance by up to 15%. Consult Aquatec for ceiling mount solutions.

PLUMBING:

- A. We recommend use of flexible tubing with proper pressure rating.
- B. Pump will prime only if all pressure is relieved from the outlet port.
- C. It is recommended that an in-line sediment filter (150 micron or 100 mesh) be installed at the inlet side to keep foreign debris out of the system. Please consult your Aquatec catalog for an in-line filter.
- D. Avoid any sharp bends which may crimp tubing and restrict flow. Use 90° elbow fittings if necessary. Aquatec provides pumps with different kinds of fittings. Please consult the Factory for your needs.
- E. The pump should always be mounted prior to the carbon pre-filter to prevent carbon particles from entering the pump chambers and possibly causing clogging.

ELECTRICAL:

- A. The PAB8800 series pumps are designed for continuous duty. If used for intermittent duty cycle, make sure that “off” periods are great than 60 seconds. Consult the Factory for particular data and design criteria.
- B. If a power supply used with the system and the supply is not furnished by Aquatec, it will need to be reviewed for correct application and approval by Aquatec.

The basic 8800 pump consists of a pump and transformer unit. Systems may be supplied with other options: e.g. PSW system pressurized shut-off switch. LPS low feed-water shut-off switch, TLC tank level controller or PAF membrane auto-flush valve or PFR membrane auto-flush flow restrictor valve. Pumps are completely assembled, tested and ready for immediate connection to your R.O. system.

Read the OPERATIONAL AND INSTALLATION GUIDELINES carefully before starting to install the pump. Consult the Factory if there is any question.

1. Determine the optimum location for your pump before proceeding.
Note: Locate the pump after the sediment pre-filter and before the carbon pre-filter (If part of R.O. system).
2. Turn off water.
3. Cut the 1/4" or 3/8" O.D. flexible tubing in sufficient length to avoid any stress on the tubing where it connects to the pump or the fitting on any accessory.
4. Insert tubing into pump ports. If fittings are John Guest type, be sure tubing is inserted past the resistance point until it bottoms out against the port stop. If the compression fittings with threaded nuts are used, insert tubing until it bottoms out in the port and hand tighten the compression nut until the connection is tight. Then tighten the nut 1/2 turn clockwise or follow the wrench tightening instructions provided by fitting manufacturer.
5. The "CDP" pump is now ready for operation. Open feed-water valve to allow water to flow through the R.O. system (Open flow-restrictor by-pass valve if part of R.O. system).
6. If the power source is a transformer, plug the appropriate Aquatec supplied/approved transformer into the receptacle and connect the pump to the transformer. If the power source is not a transformer, connect the pump to the appropriate power source. Allow water to circulate, purging any entrapped air. For pumps equipped with our "AFT" auto-flush, the flow restrictor by-pass will open and close automatically when the transformer is plugged in.
7. The pump will now start building pressure. Operating pressure will vary with membrane flow rate, flow restrictor flow rate, feed-water pressure and line voltage. Check for fitting leaks.
Note: If the flow restrictor is too small (We recommend 300MI/min. for standard CDP 6800 series pumps and 500MI/min. for CDP 8800 series pumps), or if the R.O. systems is clogged, an internal pump bypass mechanism limits the output pressure.
8. If compression fittings with threaded nuts are used, observe any leaks after pump has run for approximately 15 minutes. Further tighten compression nuts approximately 1/8 to 1/4 of a turn on all fittings in the system. Wait 15 minutes and repeat the leak check.
Note: Further adjustments should not be necessary although it may take several days of operation before all air has been purged and the system is stabilized.

SERVICING:

Every Year: Check system against operating standards.

Every 2-3 Years: Replace diaphragm and check against operating standards.

AQUATEC WARRANTY

Aquatec Water Systems, Inc. ("Aquatec") warrants its products to be free from defects in material and workmanship under the following terms:

Series 58XX, 68XX, 88XX, 55XX, ERP 1000, ERP 500 as well as PFR/TLC and PAW: The warranty will last for a period of thirteen months from date of shipping from an Aquatec warehouse with the exception that the period will be extended for an additional twelve months for 68XX series, ERP 500 and ERP 1000. Aquatec's obligation under this warranty shall be limited to replacing or repairing at Aquatec's discretion, any such product or part which is returned to Aquatec's factory with a Return Material Authorization Number (RMA), transportation charges approved by Aquatec or prepaid, and upon examination, is found to Aquatec's satisfaction to have been defective under the terms of this warranty. No credit will be allowed against future purchases for items returned as defective under the terms of Aquatec's warranty.

This warranty does not extend to any products, which have been altered or modified outside the Aquatec factory, nor does it apply to units that are returned in an unassembled condition. Furthermore, the warranty does not extend to pumps that are identified by a 9XXX model number, indicating non-compliance with Aquatec's Engineering Standards. This includes, but is not limited to, pumps ordered without an integral control mechanism. The warranty guarantees that products will perform to Aquatec's flow and pressure specifications throughout the life of the warranty. The warranty does not cover wear, appearance, misapplication or external water damage. If the returned product is found not to be defective under the conditions of this warranty, a charge will be made for repair or replacement.

This is a Limited Warranty. It covers the product only and the extent of the coverage is limited to the cost of the product. As the manufacturer has no control over shipping, handling and installation, the warranty cannot cover water damage, or any other damage, caused by a leak or other malfunction.

This warranty is in lieu of all other warranties, expressed or implied, and no person is authorized to give any other warranty or assume obligation or liability in Aquatec's behalf. Aquatec shall not be liable for any indirect, incidental or consequential damages of any kind incurred by the reason of the use or sale of any defective product and part.