Installation and Service Manual

Please fill in for future reference:

MODEL: __________________________
SERIAL NUMBER: __________________
DATE PURCHASED: __________________

* Please fill out the warranty registration card in this manual.

WARNING: Please read completely before you install or operate your new pump! This is an external “out-of-pond” pump! It is NOT submersible! Do NOT allow this pump to become submerged! Never run dry! Max. case pressure: 25 PSI!

TYPE: STRAIGHT CENTRIFUGAL MOTOR: INDUSTRIAL DUTY 1/8 HP, 1 PHASE, TEFC, 1550 RPM, 115 VAC MOTOR, 8 FT 3-PRONGED CORD.
INLET: 2" FNPT
DISCHARGE: 1 1/4" FNPT
MATERIAL: 40% GLASS FILLED Polypropylene WITH NORYL IMPELLER
HARDWARE: STAINLESS STEEL
ACCESSORIES: 90 CUBIC INCH STRAINER BASKETS (1 1/2" & 2") SWING CHECK VALVES (1 1/4", 2", 3")

EasyPro
EX3600
S/N: XXXX-XXXXXX

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EX3600

We congratulate you on your choice of the EX3600 centrifugal pump! Its leading edge design provides you with high output at a minimal operating cost. It is carefully constructed to give you long term, reliable service. To insure proper performance, we urge you to carefully follow the instructions in this manual. If you have any questions, please call your supplier for assistance.

INSTALLATION

Please read carefully! When properly installed, the EX3600 will provide dependable, trouble-free service.

1. Do not submerge the unit in water — it is not a submersible pump. Do not allow the pump to become submerged during transient periods, such as heavy rain, run-off, etc.

2. Locate the pump as near the water source as possible. A flooded suction is preferred.

3. The pump is not self-priming. Therefore, if the fluid level is below the pump, a swing check valve must be installed below water level. The pump and inlet line must be primed prior to start up. Do not run pump dry! For non-flooded installations, a strainer basket and check valve are recommended.

4. Mount the motor base to a secure, immobile foundation.

5. Use only plastic fittings on both the inlet and discharge ports. Seal the inlet & discharge fittings with Teflon™ pipe dope. These fittings should be self-supported and in neutral alignment with each port (i.e., Fittings must not be forced into port alignment which may cause premature line failure or damage to the pump volute).

6. Never restrict the inlet! Keep both inlet and discharge lines as free of elbows and valves as possible. Always use pipe of adequate diameter. This will reduce friction losses and maximize output. Never use an inlet line of smaller diameter than the discharge line. Minimize the suction lift.

ELECTRICAL HOOK-UP

Carefully, examine the power cord before use. Do not use this power cord if there is any visible damage. Do not use this power cord in water or if the motor or electrical receptacle is in contact with any standing water! This power cord should only be plugged into a properly installed 115 VAC GFI receptacle! ALWAYS TEST CYCLE A GFI RECEPTACLE TO DETERMINE ITS CONDITION BEFORE USE!
PUMP END ASSEMBLY

1. Inspect all pump parts (O-ring, O-ring groove, impeller hub ID, motor shaft, etc.) and clean if necessary.
2. Apply sealant to the bracket bore ID wall and around the seal case - follow sealant mfg. instructions. We recommend using Gasgacinch®. Silicone sealant can also be used.
3. Press the carbon graphite seal into the bracket while taking care not to touch or damage the carbon graphite face. Never touch or apply pressure to the carbon graphite seal face!
4. Screw four M-Bolts five complete turns into the threaded holes located on the motor face.
5. Mount the bracket to the motor by aligning the key holes over each bolt head, then rotate clockwise which will position the small key hole slot under each bolt head. Tighten each bolt with a wrench to secure the bracket to the motor (8-25 lb. in.).
6. Carefully, lubricate the seal seat elastomer OD and impeller hub ID with water. Press the seal seat into the impeller hub making certain that the ceramic is in evenly — the sealing surface should be parallel with the impeller hub.
7. Apply clean water to the carbon-graphite and seal seat sealing surfaces. Do not use silicon lubricants or grease!
8. Lock the shaft by placing a screwdriver blade into the shaft slot at the fan end of the motor. Thread the impeller onto the motor shaft (Insure that the small impeller washer is in place on the impeller). Thread until the washer securely contacts the shaft shoulder.
9. Seat the large O-ring into the bracket O-ring groove.
10. Assemble the volute onto the bracket with six P-Bolts (10-24 x 2 3/4” carriage bolts) and six flanged lock nuts. Tighten in a cross pattern (30 lb. in.).
11. Install the drain plug and O-ring, into the volute drain hole.
12. Before operating the EX3600, allow a proper cure time for the sealant used in step 2.

DISASSEMBLY

1. Shut off power to the motor before servicing any pump!
2. Unplug the power cord.
3. Disassemble the volute from the bracket - six P-Bolts and six flanged lock nuts. The volute may remain attached to the plumbing to help simplify re-installation.
4. Lock the shaft by placing a screwdriver blade into the shaft slot at the fan end of the motor. Unthread the impeller from the motor shaft — Take care not to misplace the small metal impeller washer.
5. Remove the ceramic, with rubber boot, from the impeller hub (if you are replacing the seal).
6. Loosen the four M-Bolts attaching the bracket to the motor. Rotate the bracket counter-clock wise until the screw heads are located in the large key hole slots. Lift off the bracket from the motor.
7. Remove the carbon-graphite seal assembly from the bracket by pressing it out from the motor-side of the bracket. Do not pry it out with a screwdriver from the pump cavity-side of the bracket (if you are replacing the seal)!
### MAINTENANCE

**Lubrication**
- **Motor**: Permanently Lubricated ball bearings - no service required.
- **Rotary Seal**: Requires no lubrication after assembly.

#### Excessive Noise
- **Symptom**: Excessive Noise
- **Problem**: Insufficient Prime, Insufficient Power, Flow Restriction, Cavitation
- **Resolution**: Prime system with water and purge all air from suction piping, verify power supply and connection from panel to pump, ensure valves are open, clean out leaves or other debris from basket strainer (if applicable), verify proper voltage, some models are dual voltage (115/230), decrease suction pipe length, reduce the number of elbows, increase pipe size where possible, verify hydraulic compatibility: i.e. pump and pipe are sized for the system.

#### Low Flow
- **Symptom**: Low Flow
- **Problem**: Insufficient Prime, Insufficient Power, Flow Restriction
- **Resolution**: Prime system with water and purge all air from suction piping, verify power supply and connection from panel to pump, ensure valves are open, clean out leaves or other debris from basket strainer (if applicable), verify proper voltage, some models are dual voltage (115/230), decrease suction pipe length, reduce the number of elbows, increase pipe size where possible, verify hydraulic compatibility: i.e. pump and pipe are sized for the system.

#### Sporadic Operation
- **Symptom**: Sporadic Operation
- **Problem**: Insufficient Power, Insufficient Prime
- **Resolution**: Verify power supply and connection from panel to pump, prime system with water and purge all air from suction piping, verify proper voltage, some models are dual voltage (115/230).