



ENVIRONMENTAL CONTROL SYSTEMS

User Manual
Premium Series Pulley Driven Pump
.25 - 3 GPM Series



**Safety, Operating, Installation,
and Maintenance Instructions**

Safety Instructions

Read all labels and instructions before beginning installation. This equipment meets or exceeds existing electrical codes as defined in the National Electric Code (NEC). Refer to local codes to ensure compliance and always use a licensed contractor for water and electrical hook-ups. Use proper safety equipment during service work.

The pump must be grounded. In the event of a malfunction, grounding will reduce the risk of electric shock by providing a path of least resistance for the electric current. The pump is equipped with a cord having a ground conductor and must be plugged into an appropriate outlet that is installed and grounded in accordance with all local codes and ordinances. Improper connection of the equipment grounding can result in a risk of electric shock.

IMPORTANT - This pump can be equipped with an optional high-pressure safety switch which will prevent the pump from operating with insufficient water supply. Once the unit is plumbed and the proper electrical connection has been made, turn on the water supply. The pump is designed to have the water turned on at all times.

Always use fresh, potable water to supply the system. Do not use water that has not been properly tested or treated for bacteria, contaminants, etc... Completely drain the system after each use.

This pump is non-submersible and rated for a maximum operating pressure of 1000 PSI. The pressure regulator is set from the factory and SHOULD NOT EXCEED 1000 PSI/70 Bar. Changing the pressure output on the pump may create a dangerous situation and will void any Fogco warranties. All pumps have been evaluated for use with water only. Do not use with flammable liquids.

Maintenance Instructions

Water Seals

- This pump contains water seals that wear with use and will need to be replaced periodically. Water seals are NOT a warranty item. Depending on operating conditions and water quality, the water seals will last between 500 and 2000 hours of operation. Once the seals are sufficiently worn, they will allow water to drip from beneath the brass head on the pump indicating the need for replacement. Failure to replace the seals once they have begun to leak will cause extensive damage to the pump.

Changing Pump Oil

- Oil should be changed after the first 50 hours and then once a year or every 500 hours of operation, whichever comes first. Run pump for 15 minutes prior to changing the pump oil. Check the pump for leaking water seals while the pump is running.
- Locate the oil drain fitting on the bottom side of the pump, remove the cap and drain the oil into a container. Dispose of the used oil at a proper oil disposal facility.
- After draining is completed, replace drain cap and fill pump with FOGCO Pump Oil 93222. Oil will show ½ full in sight window when pump is full.

Drive Belt Inspection

- When ever changing the oil, check the belt tension and inspect for cracks or abnormal wearing.
- If the belt has more than ½” deflect, loosen the mounting bolts for the motor and slide the motor away from the pump to create the necessary tension. Tighten motor mounting bolts securely.

Water Filter Inspection

- To ensure the long life of the pump the external filter element needs to be replaced at least every 6 months. The time in between replacements will vary depending on the use of the system and the condition of the water.

Fog System

- The nozzles, anti-drip valve, and auto drain valves should be inspected twice a year to ensure proper performance.
- If mineral deposits affect the operation of these items, the component should be removed from the system and cleaned using the Fogco Nozzle Cleaner.
If cleaning does not improve the performance, the components should be replaced.

Circuit Breaker

- This unit contains a circuit breaker which provides short circuit and thermal protection for the entire unit, including the motor circuit.
- When the circuit breaker is tripped, the lever will be in the down position and the green indicator will be visible.
- Blown circuit breakers must be reset. To reset the circuit breaker, pull the lever up and ensure the red indicator(s) are visible. Contact Fogco Customer Service to troubleshoot the unit if the circuit breaker trips.
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Pump Component Replacement

All repair or replacement of components must be completed by a Fogco Authorized Factory Service Center or a Fogco Authorized Contractor. Contact our Customer Service Department for more information.

Installation & Operating Instructions

Operation of the Pump

Never power the Premium Series pumps while the cover is removed. All pump repair and replacement service work must be performed by a Factory Authorized Service Center or a Factory Authorized Contractor.

The Fogco pumps are designed for use with the appropriately rated tubing and fittings to create a fog system for outdoor cooling, humidification, dust and odor control, fire suppression, and Mistscaping. **All Safety Instructions and Operating Instructions should be followed to ensure safe operation of the equipment.**

- The pump should be installed above top grade level on a solid foundation. It should be in a cool, dry location with easy access to water and power. It should be located near a drain.
- If the system will be used in freezing conditions, the pump should be located in a place where the temperature can be maintained and all water lines should be drained after each use.
- **The power supply to the pump must be a dedicated circuit with a breaker capacity as listed below**
15 Amp: 5025116, 5025216, 5050116, 5050216, 5100116, 5100216, 5150116, 5150216, 5200216
20 Amp: 5300216
- The water supply should be a constant and should provide 2 times the pumps rated flow with the appropriately sized feed line as prescribed in the Installation Instructions.
- When connecting the pump directly to any rigid line, always install a flexible outlet hose on the pump. This will reduce the vibration transferred from the pump to the rigid tubing.
- The On/Off operation of the Premium Series pumps is controlled by the switch on the pump side panel.
- This pump includes an hour meter that will track the hours of operation and should be used to determine the necessary maintenance for the pump.
- Check the oil level with the dipstick and the sight gauge. The proper level is ½ full on the sight gauge.
- Check the belt tension on all pulley driven units to ensure the belt is tight (no more than ½" deflect). See the Maintenance Instructions for details on adjusting the belt tension.

Water filtration (included). The filter assembly needs to be attached to the pump. Included in with your pump package you will have a white round filter bracket, a blue filter housing (part #92609) with pre-installed filter cartridge (part #92608) and fittings (part #94130 – 45 degree ½" slip lok x ½"MPT and part # 92855 – ½" slip lok x ½"MPT), a short (approx. 13" long) piece of ½" nylon tubing (part #92853), and a 10ft piece of 1/2" nylon tubing (part #92853) with a pre-installed hose adapter (part #92855 – ½" slip lok x ½"FNPT).

Attach the white round filter bracket to the housing panel to the left of the pressure gauge using the provided nut and washers. Place the blue filter housing in round filter bracket with outlet fitting pointing towards inlet fitting labeled on housing panel. Insert the short piece of tubing into the outlet fitting of the filter housing (outlet imprinted on black cap of housing). Push in to lock tight. Insert the other end into the inlet fitting of the pump (part #94132 - 90degree ½" slip x 3/8" MPT, labeled 'Inlet' on housing panel). Insert the 10' piece of tubing to the inlet fitting of the filter housing (inlet imprinted on black cap of housing). Push in to lock tight. Fasten the hose adapter to your hose bib to your water source. Replace cartridges as needed but no less than once a year.

This pump includes a 93503 an auto drain valve and a 92630 slip lok fitting. The auto drain valve is highly recommended and will drain the system each time it is turned off. To install, cut the 3/8" high pressure feed line tubing at a low point in the system. Insert the slip lok fitting. Thread the auto drain valve into the 10/24 female thread on the side of the slip lok fitting. The drain valve is spring loaded and will open and close automatically.

Premium Series Electric Data and Specifications

Model	Size GPM	Motor HP	Unit RPM	Volts / Phase	Full Load Amps	Dimension In.	Weight Lbs
5025116	.25	.75	730	115 / 1	10.6	26 X 16.5 X 14	90
5025216	.25	.75	730	230 / 1	5.3	26 X 16.5 X 14	90
5050116	.5	.75	583	115 / 1	10.6	26 X 16.5 X 14	90
5050216	.5	.75	583	230 / 1	5.3	26 X 16.5 X 14	90
5100116	1	1	460	115 / 1	9.0	26 X 16.5 X 14	110
5100216	1	1	460	230 / 1	4.5	26 X 16.5 X 14	110
5150116	1.5	1.5	690	115 / 1	13.0	26 X 16.5 X 14	110
5150216	1.5	1.5	690	230 / 1	6.49	26 X 16.5 X 14	110
5200116	2	1.5	921	115 / 1	13.0	26 X 16.5 X 14	110
5200216	2	1.5	921	230 / 1	6.49	26 X 16.5 X 14	110
5300216	3	3	1381	230 / 1	15	26 X 16.5 X 14	130

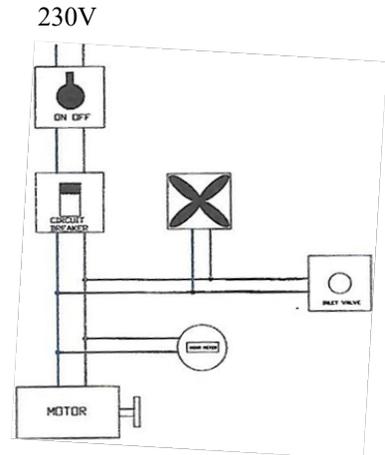
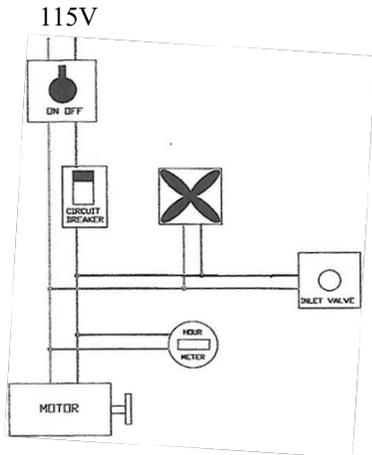
Full Load Amps are the average amp draw for the pump and will vary from unit to unit. All information listed is subject to change.

Bare Pump	Valve Caps
92925	11/16
93650	27mm
94055	27mm

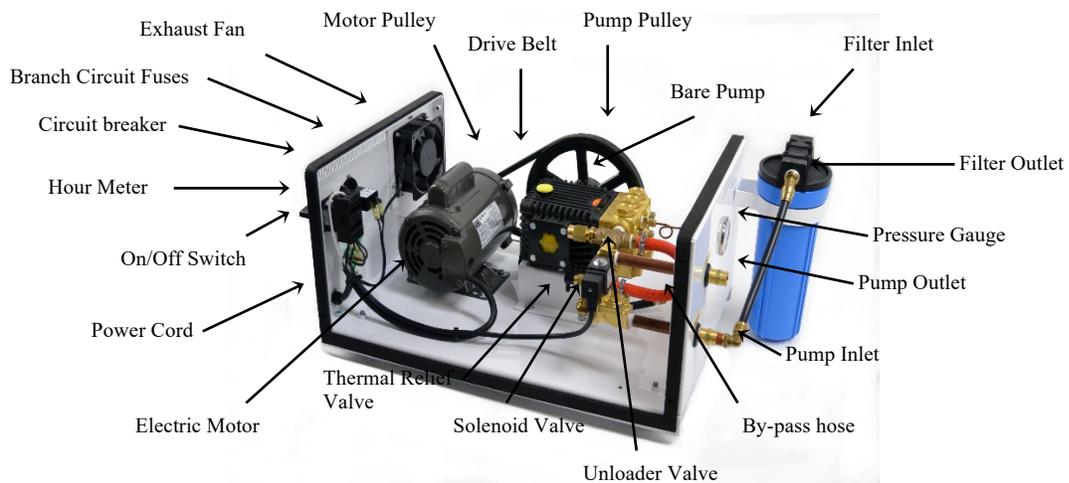
Premium Series Replacement Parts

Model #	Bare Pump	Pump Seals	Electric Motor	Thermal Relief	Unloader Valve	Pressure Gauge	Solenoid Valve	Circuit Breaker	Power Cord	Drive Belt	Motor Pulley	Pump Pulley
5025116	92925	92937	93454	95007	93521	93108	93368	93401.13	93174	92935	93171	93107
5025216	92925	92937	93454	95007	93521	93108	93596	93402.06	93162	92935	93171	93107
5050116	93650	93407	93454	95007	93521	93108	93368	93401.13	93174	93232	93304	93172
5050216	93650	93407	93454	95007	93521	93108	93596	93402.06	93162	93232	93304	93172
5100116	94055	93408	94067	95007	93521	93108	93368	93401.13	93174	93232	93171	93172
5100216	94055	93408	94067	95007	93521	93108	93596	93402.10	93162	93232	93171	93172
5150116	94055	93408	92785	95007	93521	93108	93368	93401.20	93178	93661	93176	93172
5150216	94055	93408	92785	95007	93521	93108	93596	93402.10	93162	93661	93176	93172
5200116	94055	93408	92785	95007	93521	93108	93368	93401.20	93178	92997	93176	93177
5200216	94055	93408	92785	95007	93521	93108	93596	93402.10	93162	92997	93176	93177
5300216	94055	93408	93103	95007	93521	93108	93596	93402.20	93153	92997	93105	93107

Premium Series Pump Wiring Diagrams



Rev.11302020



Fogco Environmental Control Systems

Limited Warranty

All Fogco pumps, slip lok fittings, and compression fittings are warranted against defects in workmanship and materials for a period of 5 years from the date of original purchase. Fogco does not warranty components due to normal wear including pump seals, belts, filter cartridges, O-rings, diaphragms, gaskets, or nozzle clogging.

All electronic products including VFD's, PLC's, temperature and humidity controls, transformers, power supplies, and remote controls are warranted for a period of 1 year from the date of original purchase. Electronic products are not covered under warranty when placed in a humidified environment. Temperature and humidity sensors are only covered when used according to Fogco design and instructions.

Warranty claims are subject to review and will not be covered in the case of misuse, abuse, inappropriate site conditions or improper placement of the products.

Repairs Outside the Scope of the Warranty: Problems with Fogco products can be due to improper maintenance, faulty installation, inappropriate additions or modifications to the system, or other problems not due to defects in Fogco workmanship or materials. If the Fogco Service Center determines that the problem with the product is not due to defects in workmanship or materials, the customer will be responsible for the cost of any necessary repairs and any freight expense to return the product to the customer.

Warranty Validation: To activate the Warranty on Fogco products, customer must submit a Products Registration Form along with a copy of the product invoice within 30 days of purchasing the product

Procedure to Receive Warranty Service: To return products for warranty service, call the Fogco Service Center for a Return Authorization Number. All products must be properly packed and pumps must be secured to a pallet and shipped prepaid to the Fogco Service Center. An explanation of the defect or problem; a description of the way in which the Fogco product is used; the customer's name, address and telephone number; the pump model number; and the pump serial number must be included with the shipment. The Return Authorization Number must be noted on the outside of the shipment or it may be refused and returned to the customer at the customer's expense.

Repairs by Other than the Fogco Service Center: Fogco must provide prior approval for any repairs done outside of the Fogco Service Center or the warranty will be void.

Repairs or Replacement Within the Scope of the Warranty: If a Fogco product is defective due to Fogco workmanship or materials and the defect occurs during the warranty period, then Fogco will either repair or replace the product at Fogco's discretion. Fogco is not responsible for removal labor and shipping of the system to the Service Center, the reinstallation labor of the system upon its return to the customer, or any incidental or consequential damages resulting from the defect, removal, reinstallation, or shipment of the product.

Product Specification: All product specifications, applications and other information provided in Fogco's publications are subject to change without notice and should be confirmed with Fogco prior to ordering.

No Other Warranties and Liability Limitation: This Limited Warranty represents Fogco's sole and exclusive warranty obligation with respect to Fogco products. Fogco's liability to a customer or any other person shall not exceed the purchase price of the Fogco system. Fogco disclaims all other expressed and implied Warranties including the implied Warranties of fitness for a particular purpose and merchantability.

Fogco Acquisition Co., LLC.
600 S 56th Street #9
Chandler, Arizona 85226
Phone: 480-507-6478
Fax: 480-838-2232
Website: www.fogco.com
E-mail: info@fogco.com

Product Registration Form

Return registration form with a copy of the invoice within 30 days to activate warranty.

Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone #: _____ Email: _____

Purchased from: _____

Date of purchase: _____

Pump Model Number (on metal tag): _____

Pump serial number (on metal tag): _____

Manufacture date (on metal tag): _____

Are you interested in additional Maintenance information: YES [] NO []

Description of the manner in which this product is used: _____

Return within 30 days with a copy of invoice to:

Fogco Acquisition Co., LLC
600 South 56th Street
Chandler, AZ. 85226
Attention: Warranty Registration

Phone: (480) 507-6478 Fax: (480) 838-2232 Website: www.fogco.com E-mail: info@fogco.com