# CHEM-FEED



# **MODEL C-1100**

POSITIVE DISPLACEMENT INJECTOR PUMP OPERATING MANUAL

Models C-1100A, C-1100C, C-1100F, C-1100X



5300 Business Drive Huntington Beach, CA 92649 USA Phone: 714-893-8529 FAX: 714-894-9492 E mail: sales@blue-white.com or techsupport@blue-white.com Website: www.blue-white.com

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#### **1.0 Introduction**

Congratulations on purchasing the C-1100 Model-E positive displacement Metering Pump. The C-1100 is designed to inject chemicals into piping systems and is capable of injecting against system pressures up to 150 PSI (10.4 bar). In addition to the front mounted mechanical flow rate adjustment, the C-1100A and C-1100C models include timer circuitry, and C-1100F includes speed control circuitry designed to adjust the pump's output. This manual covers models with the following feed rate mechanisms:

**1.** Fixed Cycle Timer & Mechanical Stroke Length - (Models C-1100A and C-1100C) The fixed speed pumping mechanism is turned on and off by an electronic timer. The *total* cycle time is factory set. The *on-time* cycle is adjustable from 5% through 100% of the total cycle time. Model C-1100A has a 60 second cycle with a 60 second adjustable on-time. Model C-1100C has a 5 second cycle with a 5 second adjustable on-time.

**2.** Variable Speed Controller & Mechanical Stroke Length - (Model C-1100F) The speed of the pumping mechanism is adjustable from 5% through 100%.

**3.** Mechanical Stroke Length - (Model C-1100X) Mechanical adjustment only.

#### 2.0 Specifications

Maximum Working Pressure Maximum Fluid Temperature Ambient Temperature Range Duty Cycle Maximum Viscosity Maximum Suction Lift Power Requirements 150 psig / 10.4 bar (most models) 130° F / 54° C 14 to 110° F / -10 to 43° C Continuous 1,000 Centipoise up to 30 ft. water 115V60Hz 80 Watts, 220V50Hz 40 Watts, 230V60Hz 45 Watts 6-1/4" H x 10-1/8" W x 9" D 8 lb. / 3.6 Kg

Dimensions Weight

#### 3.0 Features

- Double-ball, springless ceramic check valves with PVDF (Kynar) body, TFE/P (Aflas) and Viton o-ring seals.
- Easy access, front mounted mechanical feed rate adjustment.
- High outlet pressure capability of 150 psig (most models)
- Easy to adjust cycle timer or electronic motor speed control.
- 400:1 adjustment turn down ratio. (Model C-1100X turndown 20:1)
- Corrosion proof Valox housing.
- Tamper resistant electronic control panel cover.

#### 4.0 Unpacking

- Your pump package should contain the following:
- 1 Injector pump
- 1 Suction tube footvalve & strainer assembly
- 1 Ceramic tubing weight
- 1 5' Length of clear PVC suction tubing
- 1 5' Length of opaque LLDPE discharge tubing
- 1 Injection fitting with internal back-flow check valve
- 1 Mounting hardware kit

#### **5.0 Installation**

**CAUTION: Proper eye and skin protection must be** worn when installing and servicing the pump.

#### CAUTION: This pump been evaluated for use with water only.

*Mote:* All diagrams are strictly for guideline purposes only. Always consult an expert before installing the pump into specialized systems. The pump should be serviced by qualified persons only.

#### 5.1 Mounting Location

Choose an area located near the chemical supply tank, chemical injection point and electrical supply. Although the pump is designed to withstand outdoor conditions, a cool, dry, well ventilated location is recommended. Install the pump where it can be easily serviced.

- Mount the pump to a secure surface or wall using the enclosed hardware. Wall mount to a solid surface only. Mounting to drywall with anchors is not recommended.
- Mount the pump close to the injection point. Keep the outlet (discharge) tubing as short as possible. Longer tubing increases the back pressure at the pump tube.
- Your solution tank should be sturdy. Keep the tank covered to reduce fumes. Do not mount the pump directly over your tank. Chemical fumes may damage the unit. Mount the pump off to the side or at a lower level than the chemical container.
- Mounting the pump lower than the chemical container will gravity feed the chemical into the pump. This "flooded suction" installation will reduce output error due to increased suction lift. You must install a shut-off valve, pinch clamp or other means to halt the gravity feed to the pump during servicing.
- Be sure your installation does not constitute a cross connection with the drinking water supply. Check your local plumbing codes.

## C-1100

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This **Shroud** is designed to weather proof this Peristaltic Pump. If the pump is wall mounted the shroud is not necessary and will still be considered weather proof.



- **5.2 Optional circuit board signal connection installation -** The pump includes three optional external signal connections:
  - FVS FLOW VERIFICATION SENSOR INPUT Accepts a pulse signal from an optional Blue-White sensor confirming that fluid is passing through the pump. Triggers the AL alarm output if fluid is not detected.

AL - ALARM OPEN COLLECTOR OUTPUT
The output (purple wire) sinks to DC ground when an alarm condition exists. 6-30Vdc collector voltage. 50mAdc maximum sinking current.
MA - MOTOR ACTIVE OPEN COLLECTOR OUTPUT
The output (brown wire) sinks to DC ground when the motor is de-energized. 6-30Vdc collector voltage. 50mAdc maximum sinking current.

All signal wires must be connected to the circuit board, located inside the pump enclosure, using connector plug wiring assemblies. A liquid-tight connector must be installed in the pump enclosure wall and the signal wires passed through the liquid-tight connector and secured. See pages 8 & 9 for wiring details.

- 1. Remove the rear enclosure panel.
- 2. Remove knock-out using a screwdriver.
- 3. Trim edge with a knife and remove sharp edges.
- 4. Install the provided liquid-tight connector.
- 5. Connect the connector plug to the circuit board.



#### **CIRCUIT BOARD SIGNAL CONNECTIONS**

**FVS - FLOW VERIFICATION-**SENSOR INPUT order part number 90010-261 TFD FVS 3-wire connector plug wire assembly 120 VAC 00000 201/0 **MA - OPEN COLLECTOR** нот 0 **MOTOR ACTIVE OUTPUT AL - OPEN COLLECTOR** MA AL **ALARM OUTPUT** order part number 90010-258 4-wire connector plug wire assembly

#### **OPEN COLLECTOR OUTPUT SCHEMATICS**

#### OUTPUT SCHEMATIC



# (-) 24Vdc - + - + MA AL

TYPICAL EXAMPLE

#### **5.3 Input Power Connections**

#### WARNING: Risk of electric shock.

Be certain to connect the pump to the proper supply voltage. Using the incorrect voltage will damage the pump and may result in injury. The voltage requirement is printed on the pump serial label.

The pump is supplied with either a ground wire conductor and a grounding type attachment plug (power cord) or a junction box for field wiring.

**POWER CORD MODELS** -To reduce the risk of electric shock, be certain that the power cord is connected only to a properly grounded, grounding type receptacle.

**JUNCTION BOX MODELS** -To reduce the risk of electric shock, be certain that a grounding conductor is connected to the green grounding conductor located in the junction box.

*Note: When in doubt regarding your electrical installation, contact a licensed electrician.* 

INPUT VOLTAGE	HOT LEADWIRE	GROUND LEADWIRE													
115VAC 60Hz	YELLOW	BLUE	GREEN												
220VAC 50Hz	YELLOW	BROWN	GREEN												
230VAC 60Hz	YELLOW	RED	GREEN												
90VDC	(+) RED	(-) BLACK	GREEN												

#### **MOTOR LEADWIRES**

#### **CIRCUIT BOARD SIGNAL IN/OUT CONNECTIONS**

SYSTEM DESCRIPTION	WIRE COLOR CODE
FVS - FLOW VERIFICATION SENSOR INPUT Accepts a pulse signal from an optional Blue-White sensor confirming that fluid is passing through the pump. Triggers and alarm output if fluid is not detected.	RED (+ 20VDC) BLACK (-) YELLOW (signal)
TFD - TUBE FAILURE DETECTION SYSTEM INPUT Monitors a pair of sensors in the pumphead. Triggers an alarm output if fluid with a conductivity of greater than 500 micro-seimens is detected. Typical chemicals include chlorine, acid, caustic. The system will not detect water or silicone lubricating oil.	GRAY & GRAY
AL - ALARM OPEN COLLECTOR OUTPUT The output (purple wire) sinks to DC ground when an alarm condition exists. 6-30Vdc collector voltage. 50mAdc maximum sinking current.	PURPLE (+) & BLACK (-)
MA - MOTOR ACTIVE OPEN COLLECTOR OUTPUT The output (brown wire) sinks to DC ground when the motor is de-energized. 6-30Vdc collector voltage. 50mAdc maximum sinking current.	BROWN (+) & BLACK (-)





WIRING DIAGRAM - Model A-100NA & A-100NC



WIRING DIAGRAM - Model A-100NS



WIRING DIAGRAM - Model A-100NF

#### 5.4 How To Install the Tubing and Fittings

#### CAUTION: Proper eye and skin protection must be worn when installing and servicing the pump.

- Inlet Tubing Locate the inlet fitting of the pump head. Remove the tube nut. Push the clear suction tubing through the tube nut and onto the fitting barb. Hand tighten the tube nut to secure the tubing.
- Footvalve/Strainer Trim the inlet end of the suction tubing so that the strainer will rest approximately two inches from the bottom of the solution tank. This will prevent sediment from clogging the strainer. Slip the ceramic weight over the end of the suction tube. Press the strainer's barbed fitting into the end of the tube. Secure the ceramic weight to the strainer. Drop the strainer into the solution tank.
- Outlet Tubing Locate the outlet fitting of the pump head. Remove the tube nut. Push the opaque discharge tubing through the tube nut and onto the compression barb of the fitting. Hand tighten the tube nut to secure the tubing.

#### Keep outlet tube as short as possible.

• Injection/Check Valve Fitting Installation - The Injection/Check valve INJECTION/CHECK VALVE fitting is designed to install directly into either 1/4" or 1/2" female pipe threads. This fitting will require periodic cleaning, especially when injecting fluids that calcify such as sodium hypochlorite. See section 7.0. Install the Injection/Check valve directly into the piping system. To prevent trapped gasses, install the fitting in an upward direction. Use PTFE thread sealing tape on the pipe threads. Push the opaque outlet (discharge) tubing through the tube nut and onto the compression barb of the Injection/Check valve fitting. Hand tighten the tube nut to secure the tubing.

#### FOOTVALVE/STRAINER







#### 6.0 How To Operate The Pump

- **6.1 How to adjust the output- manual stroke adjustment** The Pump flow rate can be adjusted within a range of 5% -100% of maximum output (20:1 turndown ration) by means of a mechanical, cam type mechanism. The mechanism adjusts the pump's stroke length to an infinite number of settings within the flow range.
- Ø

**Note:** The pump's output will reduce due to increased system pressure, increased suction lift, and increased fluid viscosity. The pump must be over-sized to allow for these factors. Sizing the pump to allow adjustment within the midrange is preferred to maintain accuracy. Consult the factory for individual pump model output curve data.

#### To adjust the pump's output:

- 1. With the pump running, loosen the lock screw.
- 2. Turn the adjustment knob to the desired setting.
- 3. Re-tighten the lock screw.

**6.2 Fixed Cycle Timer Models -**The pumping mechanism is turned on and off by an electronic cycle timer. The total-time cycle is factory preset and is not user adjustable. The on-time cycle is adjustable from 5% to 100% of the total cycle time. Example: If the total-time cycle is 60 seconds and the on-time cycle is adjusted for 25 percent, the pump will run for 15 seconds and turn off for 45 seconds (60 second total cycle). This cycle is repeated until either the power switch is turned off, the cycle time is changed or the input power is disconnected from the pump.



#### To adjust the pump output -

- Slide the slide clamps to the left only far enough to open the control panel door.
- Turn the adjustment knob to the desired percentage of on-time per cycle.
- Note: When power is applied to the pump, the pump will either automatically begin to pump, or maintain power-off status, depending on the power switch status.
- **6.3 Variable Speed Model** The speed of the pumping mechanism is adjustable from 5 % through 100%.

#### To adjust the pump output -

- Slide the slide clamps to the left only far enough to open the control panel door.
- Turn the adjustment knob to the desired percentage of speed.



**6.4 (FVS) Flow Verification System** - The pump is equipped with a *Flow Verification System* which is designed to stop the pump and provide an open collector (sinking) output signal in the event the sensor does not detect chemical during pump operation. This could indicate a clogged injection fitting, empty chemical solution tank, loose tubing connection, etc. The system features an alarm delay time of 6 seconds which allows the pump to clear any gasses that may have accumulated during stopped operation. The pump will stop, and the alarm mode activated, if no pulses are received by the pump and the alarm delay time period has ended. Turn the power switch off and on to clear the alarm and restart the pump. The Flow Verification Sensor is sold as an optional accessory.

**Confirm the FVS flow range -** The Flow Verification Sensor (FVS) will only function within its operating range. Sensor model FV-100-6V has an operating range of 30-300 ml/min (1-10 oz/min). If the pump's output is less than 30 ml/min (0.5 ml/sec), the sensor will not detect chemical and a signal will not be sent to the pump.

SENSOR MODEL NUMBER	OPERATING FLOW RANGE (ml/min)
FV-100-6V	30-300
FV-200-6V	100-1000
FV-300-6V	200-2000
FV-400-6V	300-3000
FV-500-6V	500-5000
FV-600-6V	700-7000

**Install the FVS Flow Sensor -** The Flow Verification Sensor (FVS) should be installed on the outlet (discharge) side of the pump head valve. The sensor includes a PVC tubing insert, located inside the sensor's female thread connection, that is designed to seal the sensor onto the pump tube inlet adapter. Thread the sensor onto the pump tube until the tubing insert is snug against the pump tube inlet fitting - do not over-tighten.

Connect the red/white (+), black (-), and bare (signal) wires from the sensor to the red (+), black (-), and yellow (signal) wires on the plug connector. Knock-out the liquid-tite connector mounting hole on the side of the pump enclosure and install the liquid tight connector. Route the wires through the connector and tighten the connector nut. Plug the connector onto the circuit board at the pins marked "FVS". See page 6.

**Open Collector Alarm Output -**An open collector (sinking) output signal is provided with the FVS system. (See page 6).



#### 7.0 How to Maintain the Pump

#### CAUTION: Proper eye and skin protection must be worn when installing and servicing the pump.

#### 7.1 Routine Inspection and Maintenance

The pump requires very little maintenance. However, the pump and all accessories should be checked regularly. This is especially important when pumping chemicals. Inspect all components for signs of leaking, swelling, cracking, discoloration or corrosion. Replace worn or damaged components immediately.

Cracking, crazing, discoloration and the like during the first week of operation are signs of severe chemical attack. If this occurs, immediately remove the chemical from the pump. Determine which parts are being attacked and replace them with parts that have been manufactured using more suitable materials. The manufacturer does not assume responsibility for damage to the pump that has been caused by chemical attack.

#### 7.2 How to Clean the Pump

The pump will require occasional cleaning, especially the Injection fitting, the Footvalve/Strainer, and the pump head valves. The frequency will depend on the type and severity of service.

Inspect and replace the pumphead valves as required.

When changing the diaphragm, the pump head chamber and pump head cover should be wiped free of any dirt and debris.

<sup>er</sup>Periodically clean the injection/check valve assembly, especially when injecting fluids that calcify such as sodium hypochlorite. These lime deposits and other build ups can clog the fitting, increase the back pressure and interfere with the check valve operation. See page 8.

Periodically clean the suction strainer. See page 8.

Periodically inspect the air vents located under the motor housing and in the back on the rear housing cover. Clean if necessary.

#### 7.3 Measuring the Pump's Output - Volumetric Test.

This volumetric test will take into account individual installation factors such as line pressure, fluid viscosity, suction lift, etc. This test is the most accurate for measuring the injector's output in an individual installation.

- 1. Be sure the Injection Fitting and Footvalve/Strainer is clean and working properly.
- 2. Fill a large graduated cylinder with the solution to be injected.
- 3. With the pump installed under normal operating conditions, place the suction tubing with the Footvalve/Strainer installed in the graduated cylinder.
- 4. Run the pump until all air is removed from the suction line and the solution

enters the discharge tubing. If the pump does not easily prime, remove the discharge tubing from injection fitting until the pump primes. Re-connect the discharge tubing to the injection fitting.

- 5. Remove the suction tubing from the graduated cylinder and refill the graduated cylinder if necessary. Note the amount of solution in the graduated cylinder.
- 6. Place suction tubing with the Footvalve/Strainer installed back into the graduated cylinder.
- 7. Run the injector for a measured amount of time. A longer testing time will produce more accurate results.
- 8. Remove the suction tubing from the graduated cylinder. Measure the amount of chemical injected.

#### PUMP HEAD AND VALVE EXPLODED VIEW



#### **REPLACEMENT PARTS DRAWING**



# <u>C-1100</u>

#### **REPLACEMENT PARTS LIST**

Description Qty	a locument how model	nclosure, J-box model	founting Feet. Rubber 4	To The		asher, #10 Stainless 6	wer Cord 115v60		ower Cord, 220V00	ower Cord. 230v60		1 310 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	onnector Liq-tite w/ nut .375 1	onnector Liq-tite w/ nut .375 1 imer 60 sec. Model A 1	onnector Liq-tite w/ nut .375 1 imer 60 sec. Model A 1 imer 5 sec Model C 1	onnector Liq-tite w/ nut .375 1 imer 60 sec. Model A 1 imer 5 sec. Model C 1	onnector Liq-tite w/ nut .375 1 imer 60 sec. Model A 1 imer 5 sec. Model C 1 peed control 115V model F 1	onnector Liq-tite w/ nut .375 1 imer 60 sec. Model A 1 imer 5 sec. Model C 1 imer 5 sec control 115V model F 1 seed control 220V model F 1	onnector Liq-tite w/ nut .375 1 inner 60 sec. Model A 1 inner 5 sec. Model C 1 beed control 115V model F 1 seed control 220V model F 1 seed control 220V model F 1	onnector Liq-tite w/ nut. 375 1 liner 60 sec. Model A 1 liner 5 sec. 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Model C seed control 115V model F seed control 230V model F seed control 230V model F rew, 8-32 X 25 phil Pan F lotor Retaining Clip, Sa asket, Back, Neoprene Zire, Neoprene Back, Neoprene Friew, 6-32 X, 37 Swag Form ushing, J-Box Conn, Alum. Oster, 6-32 X, 25 Phil SS crew, 6-32 X, 25 Phil SS over, 1-Box w/Gaster, Lade 1 Box, Ext. Input, Valox orver, 6-32 X, 25 Phil SS over, 1-Box w/Gaster, Lade 1 Box Assembly, Ext. Input	omeetor Liqetite v/ nut. 375 lime 60 see: Model A lime 76 see: Model C beed control 230V model F beed control 230V model F beed control 230V model F reve, 8-32 X. 25 Phil Pan F lotor Retaining Cip, Ss live Nut, Blue Assket, Back, Neoprene Zire Nut, Blue aclosure Back Plate, Valox live Nut, Blue aclosure Back Plate, Valox live v. 5-32 X. 25 Phil Ss lover, J-Box v/Gasket, Label Box, Ext, Input Box, Assembly, Ext, Input live Valve 5-25 MptX.370d T live Valve 5-25 MptX.370d T	onnector Liqcitte v/ nut. 375 1 lime 60 sec. Model A 1 mer 60 sec. 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Model C beed control 115V model F beed control 230V model F reed control 230V model F reve, 8-32 X. 25 Phil Par F liotr Retaining Clip, Ss life Nut, Blue asket, Back, Neoprene asket, Back, Neoprene austing, J-Back, Neoprene bubing, J-Back Mora, Iav uclosure Back Plate, Valox life Nut, Blue austing, J-Back Mora, Iav nut. 187 life Nut, Valox Box, Ext, Input, Valox Box Assembly, Ext, Input Box Assembly, Ext, Input	onnector Liq-tite w/ nut. 375 lime 60 sec. Model A lime 76 sec. Model C seed control 120V model F seed control 230V model F rew, 8-32 X. 25 phil Pan F lotor Retaring Clip, Sa asket, Back, Neoprene Zire Nut, Blue lire Nut, Blue rew 6-32 X. 37 Swag Form lire Nut, Blue and the phil fire Nut, Blue back asket plate, Valox nonnector Liq-tie w/ nut. 187 or St. Linput, Valox list, Ext. Input, Valox over, 1-Box w/Gaster, Ladel 1 Box Assembly, Ext. Input J; Valve 5-25 MptX.370d T j; Valve 5-25 MptX.370d T	omeetor Liqetite v/ nut. 375 lime 60 see: Model A lime 76 see: Model C beed control 125V model F beed control 230V model F creew, 8-32 X. 25 phil Pan F lotor Retaining Clip, Ss lotor Retaining Clip, Ss lotor Retaining Clip, Ss lotor Retaining Clip, Ss lotor Back Plate, Valox retw, 6-32 X. 37 Swag Form ushing J-Box Corn, Alum. I Box, Ext Input, Valox retw, 6-32 X. 25 Phil Ss lover, J-Box w/Gasket, Label Box Assembly, Ext Input lip, Valve 5-25 MptX.37 od T 1	onnector Liq-tite v/ nut. 375 1 lime 60 sec. Model A 1 mer 60 sec. Model C 2 seed control 120V model F 1 seed control 230V model F 1 seed control 230V model F 1 seed sentrol 230V model F 1 sterw, 8-32 X 25 phil Pan F 1 (otor Retaining Clip, Ss 1 asket, Back, Neoprene 2 fren Nut, Blue 2 retw, 6-32 X, 37 Swag Form 1 ushing, J-Box Corn, Alum 1 ushing, J-Box Corn, Alum 1 Box, Ext. Input, Valox 2 crew, 6-32 X, 25 Phil SS 2 over, J-Box Wordstet, Label 1 gox Assembly, Ext. Input 1 j, Valve 5-25 MptX.37od T 1 j, Valve 5-25 MptX.37od T 1	onnector Liq-tite w/ nut. 375 lime 60 sec. Model A lime 76 sec. Model C eeed control 120V model F peed control 230V model F peed control 230V model F icrew, 8-32 X. 25 Phil Pan F lotor Retaining Citp, Ss asket, Back, Neoprene Zire Nut, Blue, Neoprene Zire Nut, Blue, Neoprene Zirew, 6-32 X. 37 Swag Form unschng, J-Box Com, Alum. 1 aushing, J-Box Com, Alum. 1 avk, 6-32 X. 25 Phil SS 2 over, J-Box w/Gasket, Label Box, Assembly, Ext, Input Box Assembly, Ext, Input	onnector Liq-tite v/ nut. 375 lime 60 sec. Model A lime 76 sec. Model C seed control 120V model F seed control 230V model F seed control 230V model F rew, 8-32 X 25 phil Pan F lotor Retaining Clip, Ss asket, Back, Neoprene 2 lotor Retaining Clip, Ss asket, Back, Neoprene 2 rew 6-32 X, 37 Swag Form 1 rew 6-32 X, 25 Phil SS corn, Alum ushing, J-Box Corn, Alum ushing, J-Box Corn, Alum ushing, J-Box Corn, Alum asking, J-Box Corn, Alum ushing, J-Box Corn, Alum ushing, J-Box Corn, Alum ushing, J-Box Wordstet, Label 1 box Assembly, Ext. Input J; Valve 5-25 MptX.37od T j, Valve 5-25 MptX.37od T	onnector Liq-tire w/ nut. 375 lime 60 sec. Model A lime 76 sec. Model C seed control 120V model F seed control 230V model F seed control 230V model F rew, 8-32 X. 25 Phil Pan F lotor Retaining Citp, Ss asket, Back, Neoprene Zire Nut, Blue, Neoprene Zire w, 6-32 X. 37 Swag Form unsector Liq-tite w/ nut. 187 lotox, Ext. Input, Valox retw, 6-32 X. 25 Phil SS over, J-Box w/Gasket, Label Box, Assembly, Ext. Input J, Valve 5-25 MptX.37 od T j, Valve 5-25 MptX.37 od T	onnector Liqcifte v/ nut. 375 lime 60 sec. Model A lime 76 sec. Model C seed control 120V model F seed control 230V model F seed control 230V model F lotor Retaining Clip, Ss asket Back, Neoprene 2 lotor Retaining Clip, Ss asket Back, Neoprene 2 lotor Retaining Clip, Ss asket Back, Neoprene 2 lotor Retaining Clip, Ss lotor Retaining Clip, Ss lo	onnector Liq-tite w/ nut. 375 lime 60 sec. Model A lime 76 sec. Model C seed control 120V model F seed control 230V model F rew, 8-32 X. 25 phil Pan F lotor Retaring Clip, Sa asket, Back, Neoprene Zire Nut, Blue Prire Nut, Blue rew 6-32 X. 37 Swag Form lease Back, Neoprene Zirew, 6-32 X. 25 Phil SS molecuter Liq-tie w/ nut. 187 normector Liq-tie w/ nut. 187 normec	onnector Liq-tite v/ nut. 375 1 lime 60 sec. Model A 1 lime 7 soc. Model C 2 seed control 230V model F 1 seed control 230V model F 7 seed control 230V model F 1 seed sourtol 230V model F 1 seed suitus 210V model F 1 lotor Retaining Citp, Ss 1 asket, Back, Neoprene 2 irre Nut, Blue Vilov 1 reve, 6-33 x, 37 Swag Form 1 unnector Liq-tite v/ nut. 187 1 Box, Ext. Input, Valox 1 Box, Ext. Input, Valox 2 over, J-Box w/Gasket, Label 1 giv Valve .525 MptX.37 od T 1 ji, Valve .525 MptX.37 od T 1	onnector Liq-tite v/ nut. 375 lime 60 sec. Model A lime 76 sec. Model C seed control 120V model F seed control 230V model F seed control 230V model F rew, 8-32 X 25 phil Pan F lotor Retaining Clip, Sa asket, Back, Neoprene 2 irte Nut, Blue rew 6-32 x, 37 Swag Form 1 ushing, J-Box Com, Alum ushing, J-Box Korn, Alum ushing, J-Box Kaster, Liabel 1 gu Valve .525 MptX.37od T j, Valve .525 MptX.37od T	onnector Liq-tire w/ nut. 375 lime 60 sec. Model A lime 7 soc. Model C seed control 120V model F seed control 230V model F rew, 8-32 X. 25 phil Pan F lotor Retaring Clip, Ss asket, Back, Neoprene 2 fire Nut, Blue 2 molsoure Back, Neoprene 2 molsoure Back, Patt, Input 1 molsoure 1, Jeus w/Gastet, Label 1 gover, J-Box w/Gastet, Label 1 gi, Valve 525 MptX.37 of T gi, Valve 525 MptX.37 of T	nomector Liqcifte v/ nut. 375 lime 60 sec. Model A lime 76 sec. Model C beed control 230V model F beed control 230V model F loror Retaining Cip, Ss loror Lipcifte v/ nut. 187 loror St loror	onnector Liq-tite w/ nut. 375 lime 60 sec. Model A lime 76 sec. Model C seed control 120V model F seed control 230V model F rew, 8-32 X 25 phil Pan F lotor Retaining Clip, Sa asket, Back, Neoprene Zire Nut, Blue lire Nut, Blue rew 6-32 X, 37 Swag Form and the second Alum. Inshing, J-Box Conn, Alum. Ost, Ext. Input, Valox and Clip-tie w, nut. 187 or 6-32 X, 25 phil SS over, 1-Box w(Gaster, Ladel 1 gov Assembly, Ext. Input J: Valve 5-25 MptX.37od T j. Valve 5-25 MptX.37od T	onnector Liq-tite w/ nut. 375 lime 60 sec. Model A lime 7 soc. Model C seed control 230V model F seed control 230V model F seed control 230V model F rew, 8-32 X. 25 Phil Pan F lotor Retaining Clip, Ss asket, Back, Neoprene Tire Nut, Blue, Neoprene Tire Nut, Blue, Neoprene Crew, 6-32 X. 37 Swag Form ushing, J-Box Corn, Alum. I ushing, J-Box Corn, Alum. I ushing, J-Box Word Saket, Label 1 Box, Ext, Input, Valox Serw, 6-52 X. 25 Phil SS over, J-Box w/ Casket, Label 1 Box Assembly, Ext, Input J, Valve 525 MptX.37 od T J, Valve 525 MptX.37 od T
76001-035 Enc 90003-559 Mo 90011-091 Scr 90011-094 Wa	90011-094 Wa	90003-559 Mo 90011-091 Scr 90011-094 Wa	90011-091 Scr 90011-094 Wa	90011-094 Wa	90011-094 Wa		90010-110 Pov	U 201 01000	VOA 061-01006	90010133 Pov		100 68C-0000/	A-023N-B Tin	A-023N-H Tin		C-181/N-1 Spe	C-1817N-4 Spe	C-1817N-5 Spe	00011116 Sou		90006-283 Mo	90006-580 Gas	90010-036 Wii	00000 100 Env	117 761-70006	90011-044 Scr	90007-515 Bus	00008-100 Con		H-f 891-1009/	90011-129 Scr	71000-133 Cor	70000 364 LB		C-395N-6A Inj.																					
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		Motor Mount, Large Dia	Dianh S/A 2 0 15N Vit/TFF	District of A 2 0 1 SM PB/TED	Diaph. S/A 2.0 I JN, EP/ IFE	Gearbox. 14 RPM	Combar 20 D DM		Gearbox, 45 RPM	Geathor 60 P DM		Gearbox, 125 RPM	Gearbox, 250 RPM	Wisher #0 Intel/Stor	Washer, , #0 IIIII/ Stat	Lead Wire, ground, Green	Screw 8-32 x .25 Hex SL ST	Bearing Bracket With Bearing		Stator 112V Blue-Wht/Yell	Stator 220v Brwn-Wht/yell	Stator 230v Red-White/Yellow	Potor With Shaft And Spacers	NOUN WILL SHALL AND SPACES	SCIEW, 8-52 X 2.5" Phi Steel	Gearmotor, 14 Rpm, 115v60	Gearmotor 30 Rhm 115v60	C	Gearmotor, 45 Kpm, 112V60	Gearmotor, 60 Rpm, 115v60	Gearmotor, 125 Rnm, 115v60	Gearmotor 750 Dam 115 v/60		Gearmotor, 14 Rpm, 220v50	Gearmotor, 30 Rpm, 220v50	Gearmotor, 45 Rpm, 220v50	Gearmotor 60 Rnm 220v50	Gommeter 125 Dam 220050	Ccatillotol, 120 Npill, 220000	Gearmotor, 250 Rpm, 220v50	Gearmotor, 14 Rpm, 230v60	Gearmotor, 30 Rpm, 230v60	Gearmotor. 45 Rpm. 230v60	Gearmotor, 60 Rhm, 230v60	Generator 125 Dam 230v60	Calillolor, 122 Npill, 220V00	Gearmotor, 250 Rpm, 230v60	Fan, Motor, 2.25" Dia, Alum	Door. Controls Cover	Gasket. Front, Neonrene	Lahel nercent control	I abel blank (model Y)	Slide Clamp Encl Front	Shue Clamp, LINI FIOL	Slide Claimp, Elici Kear	Enclosure, P/cord model 1
		76001-183	70000-683		/0000/	71000-357	71000 250	000-0001/	71000-359	71000-360	00C-0001/	71000-361	71000-362	00011 078	0/0-11006	90010-222	90011-024	70000-028	070-00001	112-0001/	71000-213	71000-212	2000000	170-0001	770-11006	70002-204	70002-205		007-7000/	70002-207	70002-208	000-00002	C07-70001	017-7000/	70002-211	70002-212	70002-213	0000L	+17-7000/	212-2000/	70002-216	70002-217	70002-218	70002-219		077-7000/	70002-221	90006-581	90002-191	90006-579	90012-224	00012-225	76000-000	000 10072	000-1000/	041-20006
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		Screen, FootValve, P.P. 1	Body FootValve DVDF		U-ring Seat, FOOTValVe, AIIas 1	O-ring Seat. FootValve. E.P. 1	Dell FootVielton Concession	Dall, FOU VALVE, CETAILIC I	O-ring, FootValve, Viton 1	O ring EootVializa E D 1	O-IIIIG, FUOLVAIVE, E.F.	Adapter, FootValve, PVDF 1	FootValve S/A, C-340F, EP 1	EactVicture S/A C 240A Afface 1	FUOLVAIVE 3/A, C-34UA, AIIAS 1	Ceramic weight, C-346 1	Tubing Suction 3/8 x 5 FT 1	Tube Nut 37T DVDF 2		Adapter S/A Bullet .5 /1 Vit 2	Adapter S/A Bullet .37T EP 2	Adapter S/A Bullet 37T Sil 2	Contridue Vielve S/A D-Ball 3	Caluluge valve 3/A, D-Dall 2	P/Head Noir Molded, P.F. 1	Screw 10-32 x 1.25 4	Cover P/Head HD loan 1		Kit P/Head HDN 3/1 V. P-P 1	Kit P/Head HDN 37T E.P. P-P 1	Tubing D/Charge. 3/8 x 10 FT 1	Official Com #1 135"		Uttset Cam #2.055	Offset Cam #3 .187" 1	Offset Cam #4 .100" 1	Return Spring	Clide Doming		Sturr-up I	Dial Knob 1	Screw #6 x .62 PH oval 'A' 4	Thumb Screw 6-32 x 1.125 1	Cover Cam S/A C-1100	Cochet Ton Correr		Bearing, Top Cover 1	Label. Cam Cover 1	Drive Cam S/A #1 .125" 1	Drive Cam S/A #2 .055" 1	Drive Cam S/A #3 187" 1	Drive Cam S/A #4 100"	Choose Deter 1100 1	Spacel, INULU	SCTEW 10-32 X .30 FHL FAIN 4	Plug .312 Hole Black 1
		90002-086	90002-214	1001	Z-108A	90003-129		700-00006	90003-014	00003-015	CT0-C0006	90002-215	71000-324	71000 225	C7C-0001/	90008-068	90008-116	270 0000	10-70001	/1000-204	71000-205	71000-224	71000-105	C41-0001/	90002-146	90011-141	70004-074		/0001-149	70001-153	76000-374	00001 132	701-10000	90001-133	90001-134	90001-141	9006-006	000000000000000000000000000000000000000	100-70006	76000-172	90002-017	90011-168	90011-121	71000-363	00000 202	160-00006	90004-005	90012-218	70000-131	70000-133	70000-132	2010000	00011 014	+10-11006	771-11006	861-80006
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#### LIMITED WARRANTY

Your new pump is a quality product and is warranted to be free of defects as set down in this policy. All parts, including rubberized goods, and labor are covered under warranty for 90 days from the date of purchase. Used peristaltic pump tube assemblies are not warranted. Parts, excluding rubberized goods, are covered under warranty for 12 months from the date of purchase.

Warranty coverage does not include damage to the pump that results from misuse, carelessness, abuse or alteration. Only the repair or the replacement of the pump is covered. Blue-White Industries does not assume responsibility for any other loss or damage.

Warranty status is determined by the pump's serial label and the sales invoice or receipt. The serial label must be on the pump and the pump must be accompanied by the sales invoice or receipt to obtain warranty coverage. The warranty status of the pump will be verified by Blue-White or a factory authorized service center.

Please be advised that although safety tested by independent testing laboratories, Caution - This Pump Has Been Evaluated For Use With Water Only. *Installers and operators of these devices must be well informed and aware of the precautions to be taken when injecting various chemicals -especially those considered hazardous or dangerous.* 

Should it become necessary to return an injector for repair or service, you must attach information regarding the chemical used as some residue may be present within the unit which could be a hazard to service personnel.

Blue-White Industries will not be liable for any damage that may result by the use of chemicals with their injectors and it's components. Thank you.

#### PROCEDURE FOR IN WARRANTY REPAIR

Carefully pack the pump to be repaired. To assist in troubleshooting, please include the foot strainer and injection/check valve fitting if possible. Enclose a brief description of the problem as well as the original invoice or sales receipt showing the date of purchase. The receipt will be returned with the unit. Prepay all shipping costs. COD shipments will not be accepted. Warranty service must be performed by the factory or an authorized service center. Damage caused by improper packaging is the responsibility of the sender.



Users of electrical and electronic equipment (EEE) with the WEEE marking per Annex IV of the WEEE Directive must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to them for the return, recycle, recovery of WEEE and minimize any potential effects of EEE on the environment and human health due to the presence of hazardous substances. The WEEE marking applies only to countries within the European Union (EU) and Norway. Appliances are labeled in accordance with European Directive 2002/96/EC.

Contact your local waste recovery agency for a Designated Collection Facility in your area.

### C-1100

#### AUTHORIZED SERVICE CENTERS

#### ARKANSAS

**BT Environmental, Inc** Bill Thomason 225 Castleberry Street Hot Springs, AR 71901 501-624-3837

#### CALIFORNIA (NORTHERN)

Howard E. Hutching company (Repair Center) 7190 Penryn Plaza Penryn, CA 95663 800-568-3958

#### Swimco Electric Co.

753 Camden Avenue Campbell, CA 95008 408-378-2607

#### CALIFORNIA

(SOUTHERN) Blue-White Industries (Repair Center) 5300 Business Drive Huntington Bch. CA 92649 714-893-8529

#### COLORADO

**Denver Winpump** 5754 Lamer ave .Arvada, CO 80002 303-424-3551

#### CONNECTICUT

Cronin-Cook & Associates 24 West Road Vernon, CT 06029 860-875-0544

#### Rice Pump & Motor

Repair 5740 Powerline Road Ft. Lauderdale FL 33309 954-776-6049

#### American Pump

7580-A W. Tennessee St. Tallahassee, FL 32304 850-575-9618

Jerry Lee Chemical Co. 3407 W. Old Fairfield Drive Pensacola, FL 32505 904-432-9929

Picard Chemical 1670 S. Congress Avenue W. Palm Beach, FL 33406 561-965-3434

#### ILLINOIS

Mullarkey Associates (Repair Center) 12346 S. Keeler Ave. Alsip, IL 60658 708-597-5558

#### MARYLAND

Century Pool Service, Inc 5020 Nicholson Court, #201 Kensington, MD 20895 301-231-8999

#### **NEW YORK**

#### Sherwood Specialties, Inc. 875 Atlantic Ave. 'B' Rochester, NY 14609

585-546-1211

#### NORTH CAROLINA Southern Industrial Sales

1903 Herring Avenue Wilson, NC 27893 800-872-7665

#### SOUTH DAKOTA

Son-Aqua Distributing Jim Robinson 2447 W. Main Street Rapid City, SD 57702 605-343-7716

#### TENNESSEE

Rock City Machine

307 3rd Avenue South Nashville, TN 37201 615-244-1371

#### TEXAS

#### Alamo Water Refiners 13700 Hwy. 90 West San Antonio, TX 78245

210-677-8400

#### Shelter's Water Refining

Robert Shelton 2708 E. Randol Mill Rd. Arlington, TX 76011 817-640-6188



5300 Business Drive Huntington Beach, CA 92649 USA Phone: 714-893-8529 FAX: 714-894-9492 E mail: sales@blue-white.com or techsupport@blue-white.com Website: www.blue-white.com

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