



# **MODEL A-100N**

Peristaltic Injector Pump Operating Manual

Models A-100NA, A-100NC, A-100NS, A-100NF, A-100NX



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#### 1.0 Introduction

Congratulations on purchasing the A-100N Peristaltic Metering Pump. The A-100N is designed to inject chemicals into piping systems. The pump has been tested by NSF International for use with 12 ½% Sodium Hypochlorite. This manual covers the following feed rate adjustment mechanisms:

- Fixed Cycle Timer (Models A-100NA, A-100NC, A-100NS) 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 A-100NA has a 1 minute cycle with a 60 second adjustable on-time. Model A-100NC has a 5 second cycle with a 5 second adjustable on-time. Model A-100NS (ideal for spa and hot tub chlorination) has a 1 minute cycle with a 6 second adjustable on-time. (Custom cycles are available from the factory).
- Variable Speed Controller (Model A-100NF) The speed of the pumping mechanism is adjustable from 5% through 100%.
- **Fixed Feed Rate -** (Model A-100NX) No adjustment control.

### 2.0 Specifications

**Maximum Working Pressure Maximum Fluid Temperature** 130° F / 54°C **Ambient Temperature Range Duty Cycle** Continuous **Maximum Solids** 50% by volume Maximum Viscosity 5,000 Centipoise **Maximum Suction Lift** up to 30 ft. water 108/130Vac 60Hz 80 Watts, **Power Requirements** 

**Dimensions** Weight

100 psig / 6.9 bar (most models)

14 to 110° F / -10 to 43°C

208/250Vac 50Hz 40 Watts, 208/250Vac 60Hz 45 Watts 6-1/8" H x 10-1/8" W x 9" D

8 lb.

### 3.0 Features

- Peristaltic Pump Tube does not require valves.
- Self priming under maximum pressure. Cannot vapor lock.
- High outlet pressure capability of 100 psig (most models).
- High inlet suction lift capability of 30 feet.
- Patented Tube Failure Detection (TFD) system.
- Patented pump tube assembly design.
- Includes Flow Verification System (FVS) sensor sold separately.
- Open collector (sinking 50mA max) alarm output. (30V DC max)
- Corrosion proof Valox housing.
- Tamper resistant electronic control panel cover.

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## 4.0 Unpacking

Your pump package should contain the following:

- 1 Injector pump with 2 pump tube assemblies
- 1 suction tube strainer
- 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

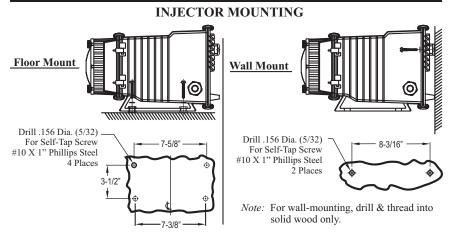
# CAUTION: Proper eye and skin protection must be worn when installing and servicing the pump.

**Note:** 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**

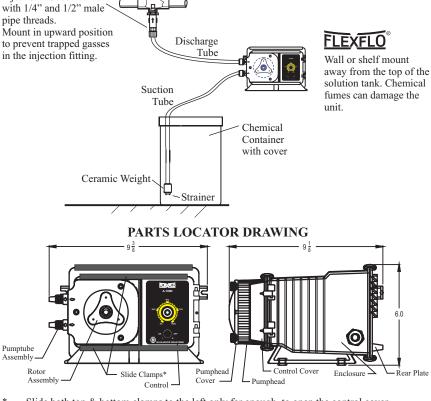
Choose an area located near the chemical supply tank, chemical injection point and electrical supply. Although the pump is designed to withstand outdoor conditions, a cool, dry, well ventilated location is recommended. Install the pump where it can be easily serviced.

- 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



#### TYPICAL INSTALLATION

Injection / Check valve



\* Slide both top & bottom clamps to the left only far enough to open the control cover.

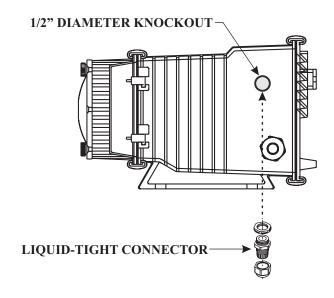
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# **5.2 Optional circuit board signal connection installation -** The pump includes three optional external signal connections:

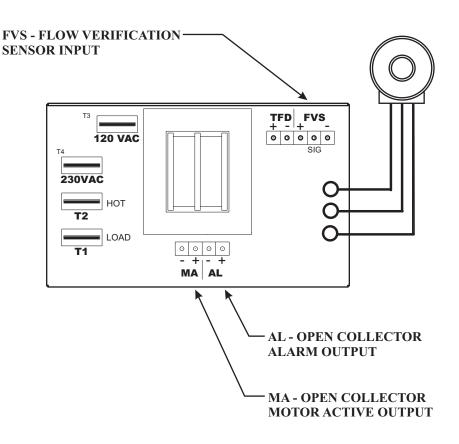
- FVS FLOW VERIFICATION SENSOR INPUT
   Accepts a pulse signal from an optional Blue-White sensor confirming that
   fluid is passing through the pump. Triggers and alarm output if fluid is not
   detected.
- AL ALARM OPEN COLLECTOR OUTPUT
  The output (purple wire) sinks to DC ground when an alarm condition 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 CONNECTION



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# **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.

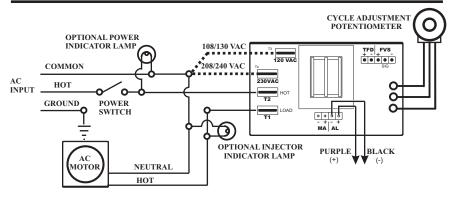
**Note:** When in doubt regarding your electrical installation, contact a licensed electrician.

#### **MOTOR LEADWIRES**

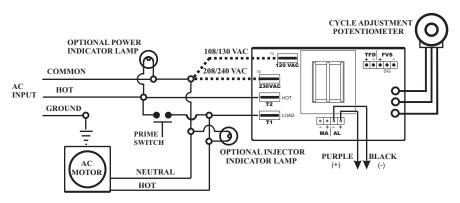
INPUT VOLTAGE	HOT LEADWIRE	NEUTRAL LEADWIRE	GROUND LEADWIRE
115VAC 60Hz	YELLOW	BLUE	GREEN
220VAC 50Hz	YELLOW	BROWN	GREEN
230VAC 60Hz	YELLOW	RED	GREEN
90VDC	(+) RED	(-) BLACK	GREEN

#### CIRCUIT BOARD SIGNAL IN/OUT CONNECTIONS

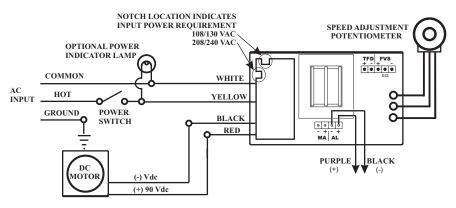
SYSTEM DESCRIPTION	WIRE COLOR CODE
FVS - FLOW VERIFICATION SENSOR INPUT Accepts a pulse signal from an optional Blue-White sensor confirming that fluid is passing through the pump. Triggers and alarm output if fluid is not detected.	RED (+ 20VDC) BLACK (-) YELLOW (signal)
TFD - TUBE FAILURE DETECTION 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

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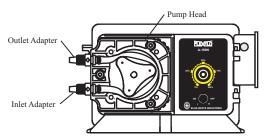
# 5.4 How To Install the Tubing and Fittings

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

- **Inlet Tubing** Locate the inlet fitting of the Pump Tube. Remove the tube nut. Push the clear PVC suction tubing onto the compression barb of the fitting. Use the tube nut to secure the tube. Hand tighten only.
- 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 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 Tube. Remove the tube nut. Push the opaque outlet (discharge) tubing onto the compression barb of the fitting. Use the tube nut to secure the tube. Hand tighten only.



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



• Injection/Check Valve Fitting Installation - The 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 Teflon thread sealing tape on the pipe threads.

Push the opaque outlet (discharge) tubing onto the compression barb of the Injection/Check valve fitting. Use the tube nut to secure the tube. Hand tighten only.









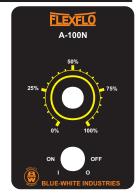






# 6.0 How to Adjust The Output

6.1 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 (model A-100NS timers adjust from .5 to 6 seconds with total time cycle of 60 seconds). 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 -

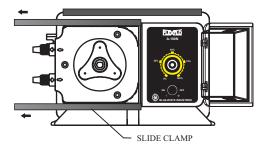
- Slide the slide clamps to the left only far enough to open the control panel door.
- Turn the adjustment knob to the desired percentage of on-time per cycle.

Note: When power is applied to the pump, the A-100N will either automatically begin to pump, or maintain power-off status, depending on the power switch status.

**6.2 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.

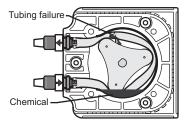


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**6.3 TFD (Tube Failure Detection)** - The pump is equipped with a *Tube Failure Detection System* which is designed to stop the pump and provide an open collector (sinking) output signal in the event the pump tube should rupture and chemical enters the pump head. This patented system is capable of detecting the presence of a large number of chemicals including Sodium Hypochlorite (Chlorine), Hydrochloric (muriatic) Acid, Sodium Hydroxide, and many others. The system will not be triggered by water (rain, condensation, etc.) or silicone oil (roller and tubing lubricant).

If the system has detected chemical, the pump tube must be replaced and the pump head and roller assembly must be thoroughly cleaned.

Confirm Chemical Detection - To determine if your chemical will be detected by the system, remove the pump tube and roller assembly. Place a small amount of the chemical in the bottom of



the pump head - just enough to cover the sensors. Turn on the pump. If the TFD system detects the chemical, the pump will stop after a five second confirmation period. If the TFD system does not detect the chemical, the pump will continue to run after the confirmation period. Carefully clean the chemical out of the pump head being sure to remove all traces of chemical from the sensor probes. Turn the power switch off and on to reset the pump.

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

**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, worn pump tube, loose tubing connection, etc.

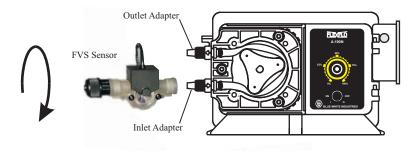
The system features an alarm delay time of 6 seconds which allows the pump to clear any gasses that may have accumulated during stopped operation. The pump will stop, and the alarm mode activated, if no pulses are received by the pump and the alarm delay time period has ended. Turn the power switch off 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.

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 inlet (suction) side of the pump tube. 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).

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# 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 weekly. 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 and Lubricate the Pump

The pump will require occasional cleaning and lubricating. The amount will depend on the severity of service.

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

The pump head cover bearing may require grease periodically. Apply a small amount of grease (Aeroshell aviation grease #5 or equivalent) when necessary.

<sup>™</sup>Although not necessary, 100% silicon lubrication may be used on the roller assembly and tube assembly.

■ 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.

Periodically clean the suction strainer.

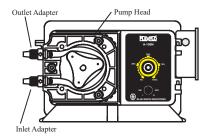
The Periodically inspect the air vents located under the motor compartment and on the rear panel. Clean if necessary.

## 7.3 How to Replace the Pump Tube

The pump tube assembly will eventually break if not replaced. The tube has been designed for a minimum service life of 500 hours. However, the life of the tube is affected by many factors such as the type of chemical being pumped, the amount of back pressure, the motor RPM, temperature and others. The pump tube assembly must be inspected and replaced regularly.

**Remove the Old Pump Tube -** The pump roller assembly spins in a counter clockwise direction. The pump head inlet (suction) side is located at the bottom of the pump and the outlet (discharge) is located at the top of the pump head.

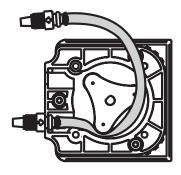
- Release any pressure that may be in the discharge tubing.
- Disconnect the suction and discharge tubes from the pump tube.
- Remove the pump head cover.
- With the pump running, pull the inlet fitting out of the pumphead. Guide the tube counter clockwise away from the rollers. Pull the outlet fitting out of the pump head.

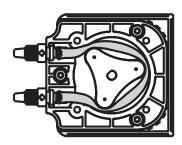


**Install the New Pump Tube** - Be sure the pump head chamber is clean and free of any debris.

Remove and inspect the roller assembly. Be sure the rollers spin freely. If required, apply a small amount of grease to the pump head cover bearing.

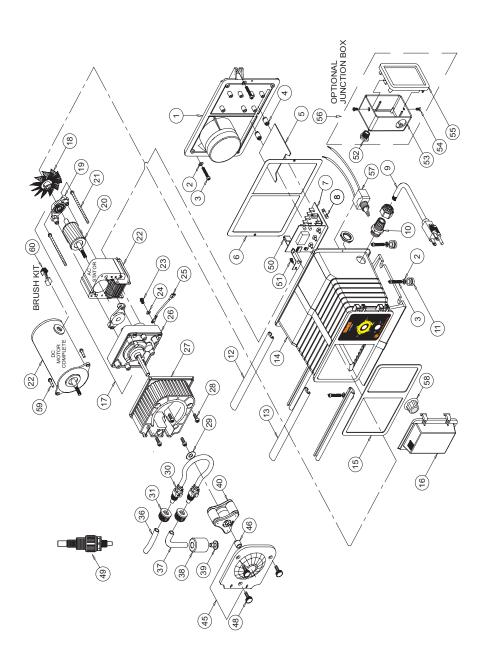
- With the pump running, insert the inlet (suction) side of the Pump Tube fitting into the pump head.
- Carefully guide the Pump Tube into the pump head. Stretch the tube slightly and insert the outlet (discharge) fitting into the upper retaining slot in the pump head.
- Place the clear cover on the pump head and secure with three screws.





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# REPLACEMENT PARTS DRAWING



# REPLACEMENT PARTS LIST

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Oty		-	_	_	_	_	_	-	-	_	3	-	-	_	_	_	_	7	_	_	-	-	_	_	7	_									
Description	Pump Tube, Norprene .43 O.D., Nut, Tube, .37 O.D. Tubing	Tubing, Outlet, 370.D.X5ff, Poly	Tubing, Inlet, .37O.D.X5ft, Pvc	Weight, Inlet Tubing, Ceramic	Strainer, Inlet Tube, Polypro	Roller, 4, -6 tubes (white rollers)	Roller, -5 Viton tube	Roller, -7 tubes (black rollers)	Cover, P/head With Bearing	Bearing, Sleeve, P/head Cover	Screw, P/head Cover, 8-32 X .62	Inj Valve, .525 Mpt X .37 O.D.	Motor Clip, 14, 30RPM	Motor Clip, 45, 60RPM	Screw, Motor Clip, 8-32 X .25	Bushing, J-Box Connector, Alum.	Junction Box, Valox	Screw, 6-32 X .25 S Black	Cover, J-Box w/Gasket &Label	J-Box Assembly, Complete	J-box Hole Plug .75 Dia Blk	Power Switch	Push button prime switch	Knob, adjustment	Screw, Motor, 8-32 x .50 Phill	Motor brush set, 90VDC motor									
Item Part No	A-002N-7T C-330-6	C-335-6	C-334-6	C-346	C-342-2	71000-159	71000-255	71000-350	71000-156	76001-003	90011-160	A-014N-6A	90006-583	90006-601	90011-146	90007-515	76001-029	90011-129	71000-133	70000-656	90008-151	A-022	A-030	A-032	90011-023	C-1814N-2									
Ite	31	36	37	38	39	40			45	46	84	49	20		51	52	53	3	55	99	$\stackrel{\sim}{N}$	57	N/S	28	29	99									
Oty		_	1	1	1	_	1	1	1	1	2	1	_	2	2	1	1	1	1	1	1	_	1	1	_	1	_	1	1	_	4	_	1	-	_
Description	Gearmotor, 45 Rpm, 220v50hz Gearmotor, 60 Rpm, 220v50hz	Gearmotor, 14 Rpm, 230v60hz	Gearmotor, 30 Rpm, 230v60hz	Gearmotor, 45 Rpm, 230v60hz	Gearmotor, 60 Rpm, 230v60hz	G/motor, V/S 14Rpm, 90VDC	G/motor, V/S 30Rpm, 90VDC	G/motor, V/S 45Rpm, 90VDC	G/motor, V/S 60Rpm, 90VDC	Fan, Motor, 2.25" Diameter,	Bearing Bracket With Bearing	Rotor 14, 30RPM With Spacers	Rotor 45, 60RPM With Spacers	Screw, Motor, 14, 30RPM Phil	Screw, Motor, 45, 60RPM Phil	Stator 14/30RPM, 115v Blu/Yel	Stator 14/30RPM, 220v Brnt/yel	Stator 14/30RPM, 230v Red/Yel	Stator 45/60RPM, 115v Blut/Yel	Stator 45/60RPM, 220v Bm/yel	Stator 45/60RPM, 230v Red/Yel	Motor, 90V Dc, model "F"	Washer, Ground Screw, #8 Star	Wire, ground, Green	Gearbox, 14 Rpm	Gearbox, 30 Rpm	Gearbox, 45 Rpm	Gearbox, 60 Rpm	Pumphead, no TFD sensors	Pumphead, w/TFD sensors	Screw, P/head, 10-32 X .50	Spacer, Rotor	Pump Tube, Norprene .25 O.D.,	Pump Tube Viton, .31 O.D.,	Pump Tube, Norprene .37 O.D.,
Item Part No	70002-157 70002-160	70002-150	70002-151	70002-158	70002-161	70002-241	70002-242	70002-243	70002-244	18 90006-581	19 C-612PB	20 C-616PN	C-616PN-32	21 C-625	C-621-32	22 71000-211	71000-213	71000-212	71000-466	71000-467	71000-468	90010-242	24 90011-078	25 90010-126	•	A-008-2	A-008-3	A-008-4	27 76001-009	71000-488	28 C-324N	29 A-031	30 A-002N-4T	A-002N-5T	A-002N-6T
×														. ,																	. ,	. ,	.,		
Description Qty	Enclosure Back With Gasket, 1 Washer, #10 Stainless 2	Screw, #10 X 1.0" Phillips Steel 4	Gasket, Back Plate, Neoprene	Percent timer (60 Sec), A-100NA 1	Percent timer (5 Sec), A-100NC 1	Percent timer (Spa), A-100NS 1	Speed Cntrl, A-100NF, 115V60 1	Speed Cntrl, A-100NF, 220V50 1	Speed Cntrl, A-100NF, 230V60 1	Wire Nut, Blue 4	Wire Nut, Orange	Lead Wire, Blu/white, 115v 1	Lead Wire, Red/white, 230v 1	Lead Wire, Brn/white, 220v 1	Lead Wire, Yellow, 220v 1	Lead Wire, Black, 115v 1	Power Cord, 115v60hz, 1	Power Cord, 220v50hz,	Power Cord, 230v60hz,	Cord Inlet Bushing	Mounting Feet, Rubber 4	Slide Clamp, Enclosure Rear 1	Slide Clamp, Enclosure Front 1	Encl, Percentage models - P/Cord 1	Encl, Fixed model "X" - P/Cord 1	Encl, percentage models - J-box 1	Encl, Fixed feed model "X" J-box 1	Gasket, Enclosure Front, Neoprene 1	Door, Electronic Controls Cover 1	Gearmotor, 14 Rpm, 115v60hz 1	Gearmotor, 30 Rpm, 115v60hz 1	Gearmotor, 45 Rpm, 115v60hz 1	Ŭ	Gearmotor, 14 Rpm, 220v50hz 1	Gearmotor, 30 Rpm, 220v50hz 1
Part No	71000-214 90011-094	90011-091	90006-580	A-023N-B	A-023N-H	A-023N-F	C-1817N-1	C-1817N-4	C-1817N-5	90010-036	90010-037	76001-030	76001-031	76001-032	76001-033	76001-034	90010-110	90010-196	90010-133	A-033N	90003-559	76001-000	666-00092	71000-187	71000-188	71000-219	71000-220	90006-579	90002-191	70002-146	70002-147	70002-156	70002-159	70002-148	70002-149
Item	1 2	3	9	7						$\overset{\circ}{N}$	$\overset{\text{S}}{\sim}$	$\overset{\mathrm{s}}{\sim}$	$\overset{\circ}{\mathbb{N}}$	Š	$\overset{\circ}{N}$	$\overset{\text{s}}{\sim}$	6			10	Ξ	12	13	4				15	16	17					

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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; injection and metering devices are not intended as a means of treating water to render it suitable for human consumption. When used as hypochlorinators, they are meant to destroy bacteria and algae contamination, before it's removal by filtration. Acid and soda injectors are used for PH control (balance). Blue-White injectors are factory tested with water only for pressure and performance. *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, include the foot strainer and injection/check valve fitting. 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.

#### AUTHORIZED SERVICE CENTERS

#### ARKANSAS BT Environmental, Inc

Bill Thomason 225 Castleberry Street Hot Springs, AR 71902 501-624-3837

# CALIFORNIA (NORTHERN) Howard E. Hutching co. (Repair Center)

7190 Penryn Plaza Penryn, CA 95663

#### **Pool-Tech, Inc.** 3471 Mt. Diablo Blvd. Lafayette, CA 94549

415-284-1400

# **Swimco Electric Co.** 753 Camden Avenue

Campbell, CA 95008 408-378-2607

# CALIFORNIA (SOUTHERN) Blue-White Industries (Repair Center)

5422 Business Drive Huntington Bch. CA 92649 714-893-8529

#### COLORADO Denver Winpump

655 Depew Street Lakewood, CO 80214-2494 303-233-1121

#### CONNECTICUT Cronin-Cook & Associates

24 West Road Vernon, CT 06066 203-875-0544

#### **FLORIDA**

# AAA Electric Motor Services

1131 N.E. 45th Street Ft. Lauderdale, FL 33334 305-772-7501

# All American Pool & Patio

2021 Curry Ford Road Orlando, FL 32806 407-898-8722

#### Rice Pump & Motor Repair 5788 N. Powerline Road

5788 N. Powerline Road Ft. Lauderdale FL 33309 305-776-6049

#### American Pump

7580-A W. Tennessee St. Tallahassee, FL 32304 904-575-9618

#### **Del Ray Electric**

11 N.E. 2nd Avenue Del Ray Beach, FL 33444 407-278-3976

# **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 407-965-3434

# V.J. Mini & Son, Inc.

1581 N. Dixie Highway Pompano Beach, FL 33060 305-946-0920

# 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

#### NEVADA Swim-In Enterprises, Inc.

1314 S. Main Street Las Vegas, NV 89104 702-384-4223

#### NEW YORK Sherwood Specialties, Inc.

412 Smith Street Rochester, NY 14608 716-546-1211

#### NORTH CAROLINA Southern Industrial Sales

1903 Herring Avenue Wilson, NC 27893 919-237-2500

# PENNSYLVANIA

Armor Electric, Inc. 1425 Selinger Avenue Erie, PA 16505 814-838-2034

#### 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 512-677-8400

#### **EGCO Industries**

8505 Director Row Dallas, TX 75247 214-631-6885

#### Miracle Water Cond. Co.

Robert Shelton 1011 Oakmead Drive Arlington, TX 76011 817-640-6188



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Website: www.blue-white.com

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