

## A-100NA

**Fixed Speed**

**Dial Knob Control**

**60 second cycle timer**



### Features:

- Peristaltic pump design does not have valves that can clog requiring maintenance.
- Self priming - even against maximum line pressure. By-pass valves are not required. Cannot vapor lock or lose prime.
- Outputs to 250 ml/min (95.1 GPD).
- Output pressures up to 100 PSI.
- Output volume is not effected by changes in back pressure.
- Patented pump tube design installs easily and stays centered on the rollers without manual adjustment.
- Two pump tubes supplied with each pump. No extra tubing required.
- Easy to use dial knob output control.
- 20:1 turndown ratio.
- Adjustable 60 second repeating interval timer. 3-60 second adjustable on time per 60 second cycle.
- Built-in Tube Failure Detection system (TFD). Senses chemical in the pump head, shuts off the pump and activates an NPN open collector output.
- Compatible with Blue-White's output flow verification sensor system.
- Durable housing of chemical resistant Valox (PBT) thermoplastic.

### Specifications:

Max. working pressure: .....100 psig (6.9 bar)  
Max. fluid temperature: .....130° F (54° C)  
Max. ambient temperature: .....14° to 110° F/ -10° to 43° C  
Output adjustment range: .....5-100%  
Duty cycle: .....Continuous  
Maximum viscosity: .....5,000 Centipoise  
Maximum suction lift: .....30 ft. Water 0 psig  
Maximum Solids: .....50% by volume  
Enclosure: .....NEMA 3R, (IP23)  
Approximate shipping wt: .....10 lb. (4.5 kg)

Voltage (max amp): .....115VAC/60Hz, 14 & 30 rpm = 1.37 amp  
45 & 60 rpm = 1.87 amp  
220VAC/50Hz, 14 & 30 rpm = 0.68 amp  
45 & 60 rpm = 1.14 amp

Power Cord Plug Type: .....115V60Hz = NEMA 5/15 (USA)  
220V50Hz = CEE 7/VI (EUROPE)

### Materials of Construction:

#### Wetted components:

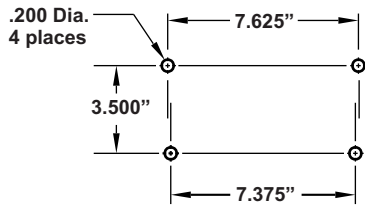
Pump Tube Assembly: .....Flex-A-Prene®  
PVDF tube assembly connection fittings  
Suction Tubing: .....Clear PVC  
Suction Strainer: .....Natural Polypropylene  
Discharge Tubing: .....Natural Polyethylene (LLDPE)  
Injection/Check valve:  
Body & insert: .....Polypropylene (optional PVDF)  
Check Ball: .....Ceramic  
Spring: .....Hastelloy C-276  
Ball Seat O-ring: .....TFE/P (optional EP)  
Static Seal O-ring: .....FKM (optional EP)

#### Non-Wetted components:

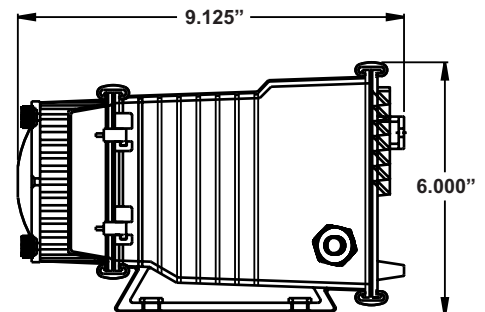
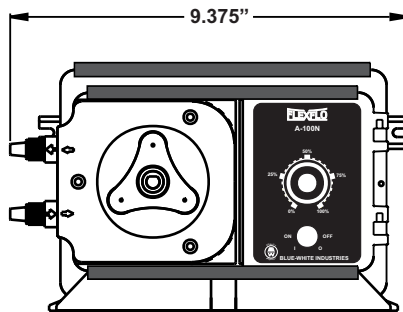
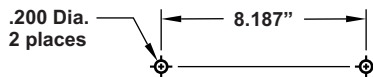
Pump Head & Enclosure: .....Valox® (PBT) thermoplastic  
Pump Head Cover: .....Clear Acrylic  
Cover Screws: .....300 Stainless, Polypropylene cap  
Roller Assembly:  
Rotor: .....Valox® (PBT)  
Rollers: .....Nylon  
Roller Bearings: .....Bronze  
Motor Shaft: .....Nickel plated steel  
TFD System Sensor pins: .....Hastelloy C-276  
Power Cord: .....3 conductor, SJTW-A Water-resistant

## Dimensions:

### Base Mounting



### Rear Panel Mounting



## Model Number Matrix:

MODEL A1N   A -

### Maximum Motor RPM

0 = 14 RPM  
1 = 30 RPM  
2 = 45 RPM  
3 = 60 RPM

### Power Supply

0 = 115V60Hz, power cord NEMA 5/15 (US)  
1 = 220V50Hz, power cord CEE 7/II plug (EU)

### Output Control

A = Analog timer, 60 sec. Cycle - 100% duty

### Tubing Connection Type

T = Compression tube nuts

### Pump Tube Size and Material

6 = 3/8" OD Flex-A-Prene® (100 PSI Max)\*  
7 = 7/16" OD Flex-A-Prene® (50 PSI Max)

## Maximum Flow rate and pressure capacities:

| Pump Output Range (5%-100%, 3 secs - 60 secs) |                                   |                                    |                                     |                                     |
|-----------------------------------------------|-----------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Tube                                          | 14 RPM                            | 30 RPM                             | 45 RPM                              | 60 RPM *                            |
| -6T<br>(100 psi)                              | .35 - 6.8 gpd<br>.9 - 18.4 ml/min | 0.8 - 16 gpd<br>2.1 - 42.1 ml/min  | 1.2 - 24 gpd<br>3.2 - 63.1 ml/min   | 1.5 - 30.1 gpd<br>4.0 - 79.2 ml/min |
| -7T<br>(50 psi)                               | 1.25 - 25 gpd<br>3.3 - 57 ml/min  | 2.6 - 52.5 gpd<br>6.8 - 138 ml/min | 3.9 - 76.1 gpd<br>10.3 - 200 ml/min | 4.8 - 95.1 gpd<br>12.6 - 250 ml/min |

\* -6T tube Max Pressure at 60 rpm = 75 psi