Blue-White®

Video link:

A1

FLEXFLO® Peristaltic Metering Pump

Features

> Tube Failure Detection (TFD+) senses tube rupture
> Heavy-duty UV-resistant display shield protects pump controls
> Brushless DC variable speed motor for precise flows
> “C” Control Model includes multiple Input/Output options
> “B” Base Model includes manual speed control
> FDA-compliant tubing

NEMA 4X

Highlights

Flow range
0.0002 – 5.60 GPH
0.0008 – 21.2 LPH

Pressures
100 PSI
(6.89 bar)

Turndown ratio
2,000 : 1

Exclusive
Tube Failure Detection
(TFD+) System

Motor
Brushless
DC

Warranty
2 Years

Control Methods

Control Methods	Manual Control	4-20mA Input	Remote Start/Stop	4-20mA Output	Alarm Output	FVS	Motor Status Output	Prime Button	Lockout Feature
A1C	•	•	•	•	•	•	•	•	•
A1B	•							•	•

For more help and information regarding **A1**, please visit www.blue-white.com or scan this QR code.

Engineering Specifications

Maximum Working Pressure	100 psig (6.89 bar)
Maximum Fluid Temperature	185 °F (85 °C)
Maximum Ambient Temperature	14 °F to 115 °F/ -10 °C to 46 °C
Maximum Viscosity	5,000 Centipoise
Maximum Suction Lift	30 ft. Water at sea level (14.7 psia)
Operating Voltage	115V/60Hz 1 PH (0.6A max., 80 W max.)
	220V/50Hz 1 PH (0.3A max., 80 W max.)
	230V/60Hz 1 PH (0.3A max., 80 W max.)
	230V/50Hz 1 PH (0.3A max., 80 W max.)
	240V/50Hz 1 PH (0.3A max., 80 W max.)
Power Cord Options	115V/60Hz = NEMA 5-15 (USA)
	230V/60Hz = NEMA 6-15 (USA)
	220V/50Hz = CEE 7/VII (EU)
	240V/50Hz = AS 3112 (Australia/New Zealand)
	230V/50Hz = BS 1363/A (UK)
Signal Connectors	M12 - 5 pin (IP67 rated connectors on “C” models)
Motor	Brushless DC, 42W
Duty Cycle	Continuous
Motor Speed Adjustment Resolution	2,000 : 1 (0.05% - 100%) Max rpm = 65
Maximum Overall Dimensions	7.18” W x 9.46” H x 9.92” D (18.23 W x 24.02 H x 25.19 D cm)
Product Weight	6 lb. (2.7 kg)
Approximate Shipping Weight	13 lb. (5.9 kg)
Approximate Shipping Dimensions	10.5” W x 13.75” H x 11” D (26.7 W x 35 H x 28 D cm)
Control Panel Cover	UV-Resistant Polycarbonate
Enclosure	NEMA 4X
RoHS Compliant	Yes
Standards	cETLus, CE

Materials of Construction

Non-wetted Components:	
Enclosure:	Valox® (PBT)
Pump Head:	Valox® (PBT)
Controls/Display Shield:	Polycarbonate, Gray - UV Resistant
Pump Head Cover:	Acrylic
	Motor shaft support bronze sleeve bearing
Cover Screws:	Stainless steel, polypropylene cap
Roller Assembly:	Rotor: Valox® (PBT)
	Rollers: Nylon
	Roller Bearings: Bronze
Motor Shaft:	Electroless nickel plated steel
TFD+ System Sensor:	Optical - Polysulfone (PSU)
Power Cord:	3 Conductor, SJTW-A water-resistant
Mounting Brackets and Hardware:	316 Stainless steel screws, GF Nylon bracket

Wetted Components:	
Pump Head Assembly:	Tubing**: Flex-A-Prene®, Flex-A-Thane®, Flex-A-Chem®
	Adapter Fittings: PVDF
Injection / Back-Flow Check Valve:	Body & Insert: PVDF
	Check Ball: Ceramic
	Spring: Hastelloy C-276
	Ball Seat O-Ring: TFE/P
	Static Seal O-Ring: FKM
Ancillary Items Provided (with "T" connection models only):	Suction Tubing: 3/8" OD x 1/4" ID x 5' Clear PVC
	Discharge Tubing: 3/8" OD x 1/4" ID x 5' Polyethylene (LLDPE)
	Suction Strainer: Polypropylene
	Weight: Ceramic

** Flex-A-Prene®, Flex-A-Thane®, and Flex-A-Chem® tubing comply with FDA 21 CFR 177.2600 criteria for food processing.

NOTE: Additional accessories, tanks, and M12 cables sold separately.

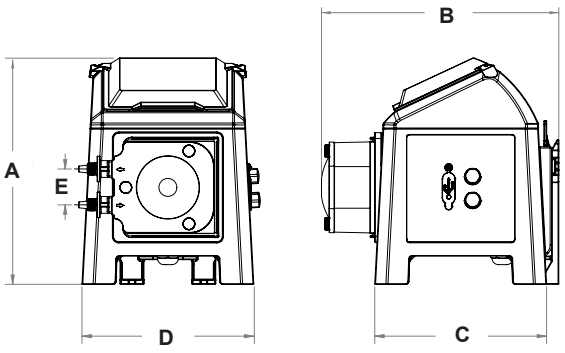
Output Specifications

Tube Model	Feed Rate			Max Speed	Max Pressure	Max Temperature
	GPH	LPH	mL/min	RPM	PSI (bar)	°F (°C)
A1-1*	0.0005 - 1.09	0.0021 - 4.13	.035 - 69	65	65 (4.48)	130 (54)
A1-3*	0.0028 - 5.60	0.0106 - 21.2	.176 - 353	65	50 (3.45)	130 (54)
A1-4*	0.0002 - 0.44	0.0008 - 1.67	.014 - 28	65	100 (6.89)	185 (85)
A1-6*	0.0007 - 1.35	0.0026 - 5.11	.043 - 85	65	100 (6.89)	185 (85)
A1-7*	0.0021 - 4.17	0.0079 - 15.8	.132 - 263	65	50 (3.45)	185 (85)
A1-8*	0.0015 - 3.09	0.0059 - 11.7	.098 - 195	65	50 (3.45)	130 (54)

NOTE: * Data pertains to "T", "M" and "MB" connection types.

Dimensions

Dim	Inch	cm	Dim	Inch	cm
A	9.46"	24.02	**D**	7.18"	18.23
B	9.92"	25.19	**E**	1.5"	3.81
C	7.18"	18.23			



A1	FLEXFLO® Peristaltic Metering Pump

Control

B	Base | Manual Speed Control (No I/O)
C	Control | 4–20 mA Input | 4–20 mA Output | Manual Speed Control | Remote Start/Stop | TFD, FVS & Motor Outputs

Power Cord (96–264 VAC)

4	115 V | 50/60 Hz | NEMA 5-15 Plug (US) | Detachable | 6 ft
6	220 V | 50/60 Hz | CEE 7/VII Plug (EU) | Detachable | 6 ft
X	No Power Cord | See Accessories for Power Cord Options

Pump Tube Size & Material

1	1/4” OD Flex-A-Thane® | 0.0005–1.09 GPH | 0.035–69 mL/min | 65 PSI (4.48 bar)
3	7/16” OD Flex-A-Thane® | 0.0028–5.60 GPH | 0.176–353 mL/min | 50 PSI (3.45 bar)
4	1/4” OD Flex-A-Prene® | 0.0002–0.44 GPH | 0.014–28 mL/min | 100 PSI (6.89 bar)
6	3/8” OD Flex-A-Prene® | 0.0007–1.35 GPH | 0.04–85 mL/min | 100 PSI (6.89 bar)
7	7/16” OD Flex-A-Prene® | 0.0021–4.17 GPH | 0.132–263 mL/min | 50 PSI (3.45 bar)
8	7/16” OD Flex-A-Chem® | 0.0015–3.09 GPH | 0.098–195 mL/min | 50 PSI (3.45 bar)

Inlet/Outlet Connection

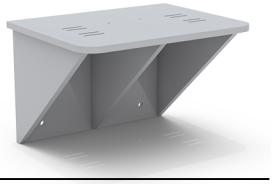
T	3/8” OD × 1/4” ID Tube Compression Fitting
M	1/2” Male NPT Fitting
MB	1/2” Male BSPT Fitting | Natural PVDF (Kynar)

A1	B	4	-	1	T	**Sample Model Number**

Accessories

KIT-S30
30-Gallon Star III Tank | PP

Also Available in 7 and 15 Gallon Sizes



KIT-PSM
Wall Mount Bracket | HDPE

KIT-M12
Two M12 Cables | 10 ft Long

Also Available in 5’, 15’ & 30’ Lengths

More accessories available at blue-white.com

5300 Business Drive, Huntington Beach, CA 92649
TEL 714-893-8529 | FAX 714-894-9492 | www.blue-white.com | sales@blue-white.com

ISO 9001:2015 CERTIFIED

SINCE Quality 1957

MADE IN THE USA