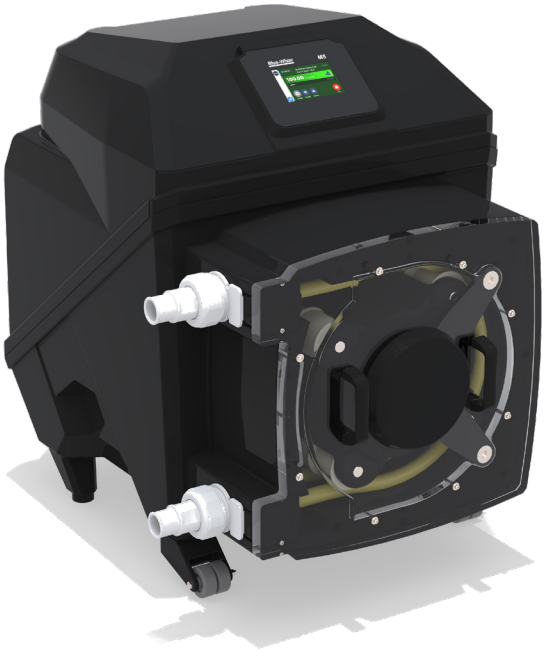
Blue-White®

M5

FLEXFLO® Peristaltic Metering Pump



Features

> 5” touchscreen color LCD display
> User-friendly configurations
> Self priming peristaltic metering pump delivers smooth chemical feed
> Tube Failure Detection (TFD) system senses tube failure
> Inputs include: 4-20mA, Pulse Inputs, Industrial Protocols, Remote Start/Stop

NSF Certified to NSF / ANSI Standard 61 · ETL c us · CE · NEMA 4X

Highlights

Flow range
.0076 - 534 GPH
.0286 - 2021 LPH

Pressures
Up to 65 PSI
(4.4 bar)

Turndown ratio
10,000 : 1

Exclusive
Tube Failure Detection
(TFD)

Motor
Brushless DC

Warranty
5 Years

Control Methods

Control Methods	Manual Control	4-20mA Input	Remote Start/Stop	Pulse Input	Frequency Input	Ethernet/ IP	Modbus TCP/IP	Profibus	4-20mA Output 4 Alarm Outputs
M5	•	•	•	•	•	•	•	•	•

For more help and information regarding **M5**, please visit www.blue-white.com or scan this QR code.

Engineering Specifications

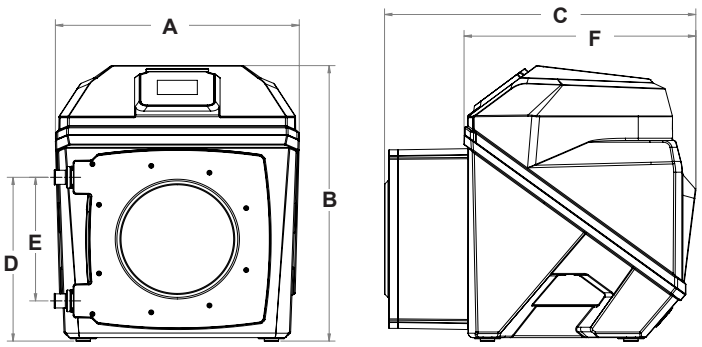
Maximum Working Pressure (excluding pump tubes)	Up to 65 psig (4.4 bar)
	NOTE: See individual pump tube assembly maximum pressure ratings.
Maximum Fluid Temperature (excluding pump tubes)	185 °F (85 °C)
	NOTE: See individual pump tube assembly max. temperature ratings.
Maximum Viscosity	12,000 Centipoise
Maximum Suction Lift	30 ft. Water, 0 psig (9.14 m, 0 bar)
Ambient Operating Temperature	14 °F to 115 °F (-10 °C to 46 °C)
Ambient Storage Temperature	-40 °F to 158 °F (-40 °C to 70 °C)
Operating Voltage	115VAC/60Hz, 1ph (5.2A)
	230VAC/60Hz, 1ph (2.6A)
	220VAC/50Hz, 1ph (2.6A)
	240VAC/50Hz, 1ph (2.6A)
	230VAC/50Hz, 1ph (2.6A)
Power Cord Options (Detachable - 6' standard)	115V60Hz = NEMA 5/15 (USA)
	230V60Hz = NEMA 6/15 (USA)
	220V50Hz = CEE 7/VII (EU)
	240V50Hz = AS 3112 (Australia/New Zealand)
	230V50Hz = BS 1363/A (UK)
Motor	Brushless DC, .6 hp
Motor Speed Adjustment Range	10,000:1 (0.01% - 100% motor speed) Max RPM = 75
Motor Speed Adjustment Resolution	0.1% increments > 1% motor speed and < 100%
	0.01% increments < 1% motor speed
Display	5" touchscreen color LCD, UV resistant.
Display Languages	English, Spanish, French, German, and Portuguese selectable
Maximum Overall Dimensions	25.7"W x 30.1"H x 32.8"D (65.2W x 76.4H x 83.3D cm)
Product Weight	178 lb. (80.7 Kg)
Security	Programmable 6-digit password
Approximate Shipping Weight	340 lb. (154 Kg)
Enclosure	IP66, Kydex, NEMA 4X
RoHS Compliant	Yes
Standards	cETLus, CE, NSF61

Dimensions

Dim	Inch	cm
A	25.7"	65.2
B	30.1"	76.4
C	32.8"	83.3

Dim	Inch	cm
D	17.9"	45.4
E	13.5"	34.3
F	24.4"	62.0

Overall Height with Mounting Bracket = 33.1"



Materials of Construction

Non-wetted Components:

Enclosure: Kydex

Pump Head: GF Noryl

Pump Head Cover: Acrylic

Motor Shaft Support Bracket: Powder-coated Aluminum

Permanently lubricated sealed motor shaft support ball bearing.

Cover Screws: Stainless steel, polypropylene cap

Roller Assembly:

Rotor: GF Noryl

Rollers: Nylon

Roller Bearings: SS Ball bearings

Motor Shaft: Chrome plated steel

TFD System Sensor: Hastelloy C-276

Power Cord: 3 conductor, SJTW-A water-resistant

Mounting Brackets and Hardware: 316 Stainless steel

Wetted Components:

Pump Tube Assembly:

Tubing: Flex-A-Prene® or Flex-A-Thane®

Adapter Fittings: Polypropylene

O-Rings: FKM (Optional EP)

** Flex-A-Prene® and Flex-A-Thane® tubing comply with FDA 21 CFR, 117.2600 criteria for food processing.

Ancillary Items Not Included (sold separately):
Suction Tubing/Pipe, Discharge Tubing/Pipe, Injection Fittings, Foot Valves/Strainers, Quick Disconnect Valves, or Communications Wire/Cable.

Output Specifications

Feed Rate			Max Pressure	Max Temperature	Tube Material / Size
GPH	LPH	mL/Min	PSI (bar)	°F (°C)	
Flex-A-Prene® M5 Tube Pumps					
.0534 - 534	.2021 - 2021	3.369 - 33690	30 (2.1)	185 (85)	NPP
.0286 - 286.2	.1083 - 1083	1.806 - 18056	50 (3.4)	185 (85)	NLL
.0076 - 75.6	.0286 - 286	.4769 - 4769	65 (4.5)	185 (85)	NHHL
Flex-A-Thane® M5 Tube Pumps					
.0154 - 154.2	.0584 - 583.6	.9728 - 9728	50 (3.4)	130 (54)	GKK

Model Number Matrix

Model Number

M5	FLEXFLO® Peristaltic metering pump

Power Cord (operating voltage user selectable 115V/240 VAC 50/60Hz)

4	115V / 60Hz, power cord NEMA 5/15 plug (US)
6	220V / 50HZ, power cord CEE 7/VII plug (EU)
X	No Power Cord

Inlet/Outlet Connection Size, Connection Type, Connection Material

M	1.5” Male NPT Fitting, Polypropylene, FKM O-rings
B	1.5” Hose Barb, Polypropylene, FKM O-rings

Pump Tube Material, Pump Tube Size, Output Range, Pressure

NPP	Flex-A-Prene® .750 ID | .0534 - 534 GPH | .2121 - 2021 LPH | 3.369 - 33690 mL/min | 30 PSI
NLL	Flex-A-Prene® .500 ID | .0286 - 286 GPH | .1083 - 1083 LPH | 1.806 - 18056 mL/min | 50 PSI
NHHL	Flex-A-Prene® .250 ID | .0076 - 75.6 GPH | .0286 - 286 LPH | 0.4769 - 4769 mL/min | 65 PSI
GKK	Flex-A-Thane® .375 ID | .0154 - 154.2 GPH | .0584 - 583.6 LPH | 0.9728 - 9728 mL/min | 50 PSI

Pumphead Orientation

(Blank)	Standard - Left facing
R	Right facing pumphead

O-rings / Elastomers

(Blank)	Standard
E	EPDM

M5	**S**	**2**	**4**	**-**	**M**	**NPP**			**Sample Model Number**

Accessories

90010-663 115V/60Hz NEMA 5/15
90010-664 220V/50Hz CEE 7/V11
90010-665 230V/50Hz BS 1363/A
90010-666 240V/50Hz AS 3112
90010-696 230V/60Hz NEMA 6/15
90010-711 115V Lockable

POWER CABLES - 6 ft



CABLE-UAC
USB A-C CABLE



KIT-M12
TWO M12 CABLES

*__KIT-M12-3__ Three M12 Cables and __KIT-M12-6__ Six M12 Cables also available.



KIT-DP3
ONE 3ft PROFIBUS CABLE

Visit Accessory Pages for More Options

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