







# 2016 Catalogue

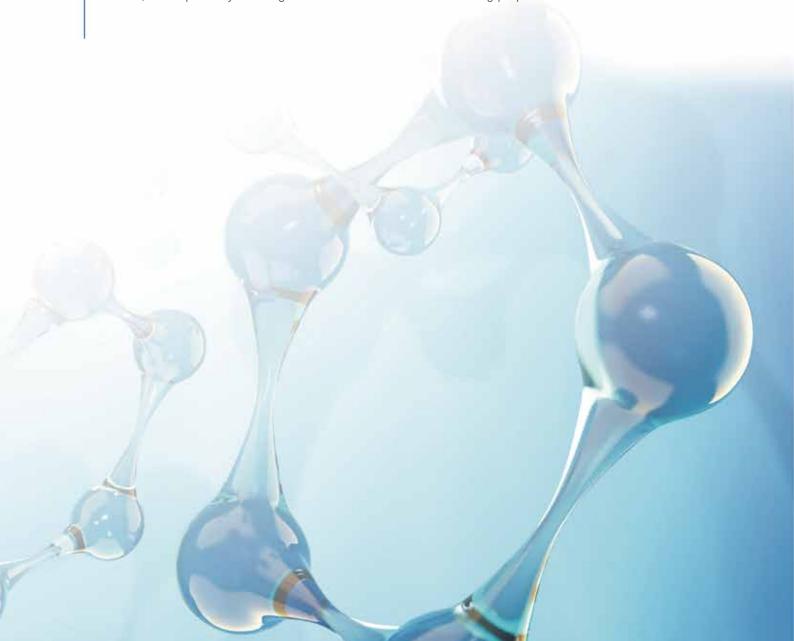


**Peristaltic Pump** 



# **Peristaltic Pump**

The MS Peristaltic Pump series offers several digitally-controlled versions of the peristaltic pump for a variety of applications, which provide high accuracy of rpm performance. The MU-D series is the single pump head version, controlled by a microprocessor. The MFU series features a dual or tetrad pump heads, which perfectly fulfill high-volume demands with multi-tubing purposes.



# **Peristaltic Pump**

Peristaltic Pump 120-121

- Digital Peristaltic Pump
- Dual and Tetrad Peristaltic Pump



# **Digital Peristaltic Pump**

# **MU-D series / MFU series**

For MU-D series

MU-D Peristaltic Pump series is ideal for a variety of applications, which include filtration, circulation, sampling, chemical spraying, dispensing, transferring, feeding and filling. The easy-to-use pump head design accomadate several different silicon tubing sizes. This provides a great flexibility for a wide range of flow rates to be utilized when connecting with different sizes of tubings.

The MU-D series is also reversible providing better convenience and flexibility to the user. The digital control provides high accurate rpm performance.

MU-D01 pump is a digital controlled mode with a solid 50W brushless motor, and MU-D02 is designed with a higher horsepower, 100W for higher volume demands required.

MU-D03 pump is the most powerful pump in this series which packs with powerful pump head, allows the flow rate to up to 3.3 litre/min with thicker tubing (1.6mm).

Select the appropriate model for your lab with economical yet powerful enough peristaltic pump.



The Dual and Tetrad Peristaltic Pump are equipped with two and four peristaltic pumps respectively, and can be controlled separately. Digital microprocessor provides precise speed control; individual timer and alarm function are equipped with all standard pumps. The Dual and Tetrad Peristaltic Pump can be used for various applications such as filtration, circulation, sampling, chemical spraying, dispensing transferring, feeding and filling. The easy-to-use pump head design is also conveniently reversible for purging, allowing further flexibility in any experiment.

#### Features:(for MU-D series)

- Digital microprocessor control for precise speed control
- Compact size provides high protability
- High quality Masterflex and Watson Marlow easy load pump head
- Reversible for purging purposes
- Flow rate range from 1.2 to 1,140ml/min for MU-D01
- Flow rate range from 0.3 to 2,280ml/min for MU-D02
- Flow rate range from 0.8 to 3,300ml/min for MU-D03
- 2-step programmable operation mode available

#### Features:(for MFU series)

- Compact size provides high protability
- Precise digital control for individual pump head
- High quality Verderflex Easy Load pump head
- Two or four pump head models available
- Allow individual control for each pump head
- Wide applications
- Reversible for purging purposes usage
- 2-step programmable operation mode available
- · Expandable pump head for wider range of applications



MU-D03





Easy load pump head

Expandable pump head



Easy load pump head

# **Specifications**

Cat. No	MU-D01	MU-D02	MU-D03	MFU-01	MFU-02			
Controller	Digital microprocessor controller							
Motor		Brushless motor	Stepping motor					
Power	50W	100W						
Pump speed increment	20 - 300rpm / 1rpm	5 - 600rpm / 1rpm	20 - 300rpm /1rpm	Approx. 1 - 100	Orpm / 1rpm			
Max. pump speed	300rpm	600rpm	300rpm	Approx. 100rpm				
Variable flow rate	1.2 - 1,140ml/min	0.3 - 2,280ml/min	0.8 - 3,300ml/min	0.6 - 380ml/min				
Number of rollers	9	}	2	3				
Number of peristaltic Pumps	1(max. 2)		1	2 4				
Operating temperature			Ambient to 40 °C					
Dimension (WxLxH)	7.87"x13.39"x5.12" (200x340x130mm)		9.45"x13.39"x 6.69" (240x340x170mm)	10.43"x13.39"x7.09" (265x340x180mm)				
Construction	Painted iron metal							
Weight	Approx. 12.5lb ( 5.7kg )		Approx. 13.4lb (6.2kg)	Approx. 12.6lb (5.7kg)				
Rated voltage	110V/220V	100V-240V	100V-240V	110V-240V				
Program	2-step Program (running & ceasing); Max. of timer: 99 (hr): 59 (min): 59 (sec)							

# **Ordering Information**

Cat. No	Product Description			
MU-D01	Digital Peristaltic Pump, 110 / 220V			
MU-D02	Superior Digital Peristaltic Pump, 100V-240V			
MU-D03	Supreme Digital Peristaltic Pump, 100V-240V			

Cat. No	Product Description
MFU-01	Dual Peristaltic Pump
MFU-02	Tetrad Peristaltic pump
PWI-FS-01-00000000	Digital Peristlatic Pump connection cable for FS-01/02
PWI-FS-05-00000000	Digital Peristlatic Pump connection cable for FS-05
PWI-FS-06-00000000	Digital Peristlatic Pump connection cable for FS-06, FS-07

## **Accessories**

Cat. No	Product Description
MU-PU1	Easy Load pump head for MU-D01 / MU-D02
MU-S13	Silicon tube I.D. 0.03 inch (0.8mm), 25ft
MU-S14	Silicon tube I.D. 0.06 inch (1.6mm), 25ft
MU-S16	Silicon tube I.D. 0.12 inch (3.1mm), 25ft
MU-S25	Silicon tube I.D. 0.19 inch (4.8mm), 25ft
MU-S17	Silicon tube I.D. 0.25 inch (6.4mm), 25ft
MU-S18	Silicon tube I.D. 0.31 inch (7.9mm), 25ft

## **Tubing Order Information**

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Silicon tubing specifications	0	0	0	0	0	0	
Cat. No.	MU-S13	MU-S14	MU-S16	MU-S25	MU-S17	MU-S18	
Inner diameter inches. (mm)	0.03(0.8)	0.06(1.6)	0.12(3.1)	0.19(4.8)	0.25(6.4)	0.31(7.9)	
Hose barb size inches. (mm)	1/16(1.6)	1/16(1.6)	1/8(3.2)	3/16(4.8)	1/4(6.4)	3/8(9.5)	
Flow range with 6 to 600rpm drive ml/min	0.36 to 36	1.3 to 130	4.8 to 480	10 to 1000	17 to 1700	23 to 2300	
Maximum pressure, continuous	25psig			20psig	15psig	10psig	
		(1.7bar)		(1.4bar)	(1.0bar)	(0.7bar)	
Maximum pressure, intermittent	40psig			35psig	20psig	15psig	
		(2.7bar)		(2.4bar)	(1.4bar)	(1.0bar)	
Maximum vacuum	26" Hg (660mm Hg)				20" Hg (510mm Hg)		
Suction lift	29ft H <sub>2</sub> O (8.8m H <sub>2</sub> O)			22ft H <sub>2</sub> O (6.7m H <sub>2</sub> O )			



<sup>\*</sup>Dual Pump Head available accommodate two silicon tubings with the same pump speed at the same time.

 $<sup>^{\</sup>star}\text{To}$  achieve maximum performance for MU-D03, please use tube size ID from 0.5mm to 8.0mm.



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