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*Innovative Life Sciences Tools*

# 2021-2022 Catalogue

version 1.0

## Peristaltic Pump



# Life Sciences Research

## Peristaltic Pump

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. An expandable pump head is available to perfectly fulfill high-volume demands with multi-tubing purposes.

▣ Peristaltic Pump 83-84

Digital Peristaltic Pump

\*All images are for reference only, actual products might differ from the images.  
\*Please visit our website at [www.majorsci.com](http://www.majorsci.com) for more product selection and detailed information.  
\*Technical specification subject to change without notice.



# Digital Peristaltic Pump Dual and Tetrad Peristaltic Pump



## 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 accommodate 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 3,272ml/min with thicker tubing (1.6mm). Select the appropriate model for your lab with economical yet powerful enough peristaltic pump.



MU-D01/MU-D02



Easy load pump head

Expandable pump head

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

- Digital microprocessor control for precise speed control
- Compact size provides high portability
- 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 8 to 3,272ml/min for MU-D03
- 2-step programmable operation mode available



MU-D03

## Specifications

Cat. No	MU-D01	MU-D02	MU-D03
Controller	Digital microprocessor controller		
Motor	Brushless motor		
Power	50W	100W	
Pump Speed / Increment	20 - 300rpm / 1rpm	5 - 600rpm / 1rpm	20 - 300rpm / 1rpm
Max. Pump Speed	300rpm	600rpm	300rpm
Flow Range **	1.2 - 1,140ml/min	0.3 - 2,280ml/min	8 - 3,272ml/min
Number Of Rollers	4		2
Number Of Peristaltic Pumps	1(max. 2)		1
Operating Temperature	Ambient to 40 °C		
Dimension (WxLxH)	Approx. 7.9"x13.4"x5.1" (200x340x130mm)		Approx. 9.5"x13.3"x 6.6" (240x338x167mm)
Material	Painted iron metal		
Weight	Approx. 12.5lb ( 5.7kg )		Approx. 13.4lb (6.2kg)
Rated Voltage	110V/220V~	100V-240V~	100V-240V~
Program	2-step Program (running & ceasing); Max. of timer: 99 (hr) : 59 (min) : 59 (sec)		
Auto Resume Function	Yes		

\*\*The flow range is subject to the silicone tube that used. Please see Silicon tubing specifications table for reference.







## 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~
PWI-FS-05-00000000	Digital Peristaltic Pump connection cable for FS-05
PWI-FS-06-00000000	Digital Peristaltic 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 (MU-D series only)

## Tubing Information

Silicon Tubing Specifications						
<b>Cat. No.</b>	MU-S13	MU-S14	MU-S16	MU-S25	MU-S17	MU-S18
<b>Inner Diameter Inches. (mm)</b>	0.03(0.8)	0.06(1.6)	0.12(3.1)	0.19(4.8)	0.25(6.4)	0.31(7.9)
<b>Hose Barb Size Inches. (mm)</b>	1/16(1.6)	1/16(1.6)	1/8(3.2)	3/16(4.8)	1/4(6.4)	3/8(9.5)
<b>Flow Range With 6 To 600rpm Drive (ml/min)</b>	0.36 to 36	1.3 to 130	4.8 to 480	10 to 1000	17 to 1700	23 to 2300
<b>Maximum Pressure, Continuous</b>	*The flow range is subject to the motor drive of the pump. Please see Peristaltic Pump specifications for reference.					
	25psig (1.7bar)		20psig (1.4bar)		15psig (1.0bar)	10psig (0.7bar)
<b>Maximum Pressure, Intermittent</b>	40psig (2.7bar)		35psig (2.4bar)		20psig (1.4bar)	15psig (1.0bar)
<b>Maximum Vacuum</b>	26" Hg (660mm Hg)				20" Hg (510mm Hg)	
<b>Suction Lift</b>	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)	

\* MU-S18 is not compatible with MFU series.



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



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