



 **MS** major
science

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 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)

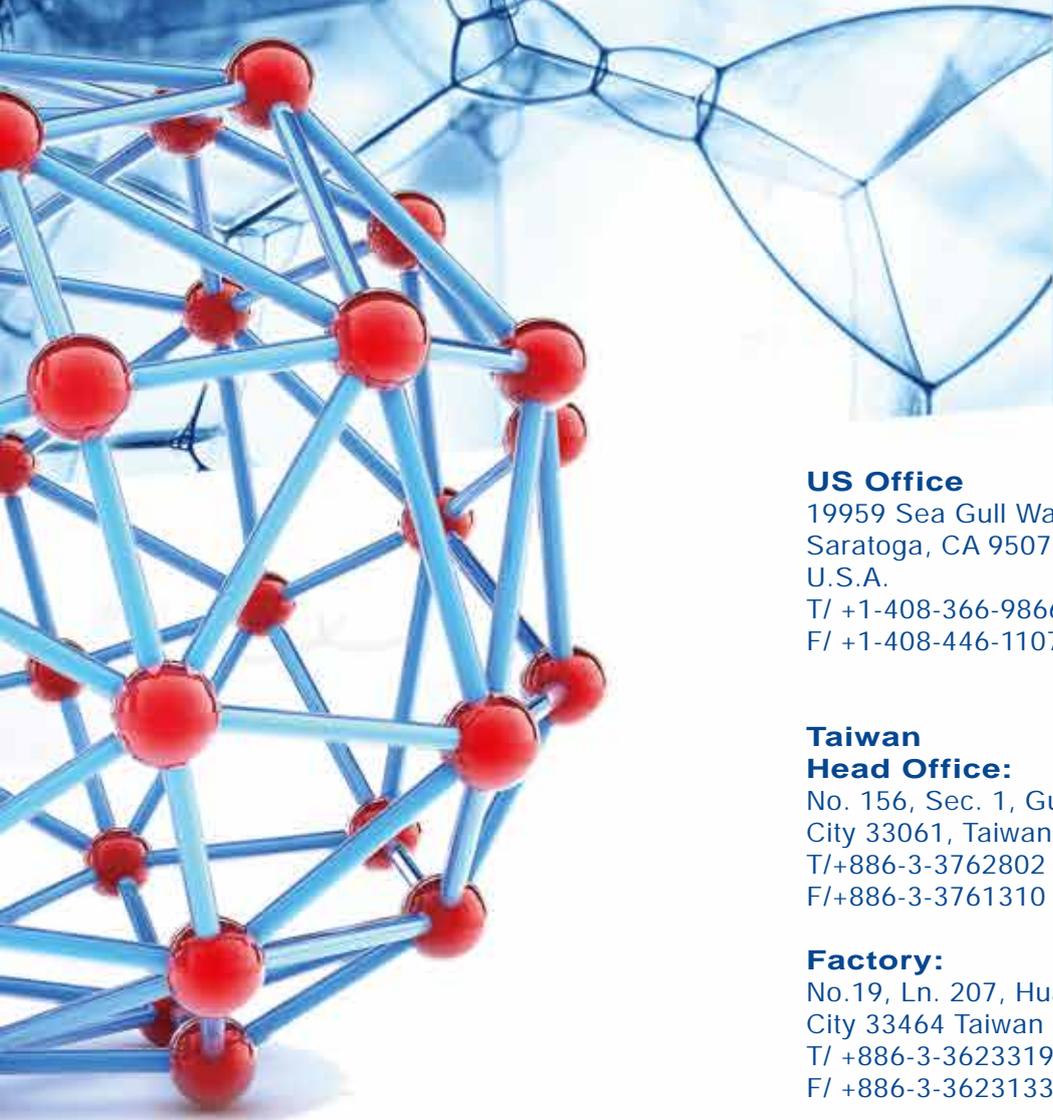
Tubing Information

Silicon Tubing Specifications						
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	*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)
Maximum Pressure, Intermittent	40psig (2.7bar)		35psig (2.4bar)		20psig (1.4bar)	15psig (1.0bar)
Maximum Vacuum	26" Hg (660mm Hg)			20" Hg (510mm Hg)		
Suction Lift	29ft H ₂ O (8.8m H ₂ O)			22ft H ₂ O (6.7m H ₂ 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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