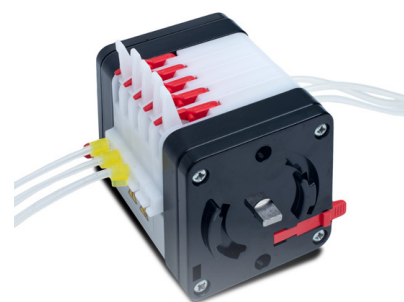


318MC Microcassette Pump Heads 5-Channel, 8-Roller

Features and Benefits

- Remove cassette without disturbing other channels
- Each cassette loads easily with a single cam lever action
- Eight-roller model for higher precision and less pulsation
- Flow rate as low as 0.002 mL/min per channel
- Accepts tubing with built-in stops that ensure the correct position and tension of the tubing
- Add an extension pump head to double your pumping capability to 10 channels



WARNING

This product is not approved or intended for, and should not be used for, medical, clinical, surgical, or other patient-oriented applications.

Performance

MC8 eight-roller five-channel low-flow microcassette pump heads — tube bore and flow rates (mL/min)

Bore mm	0.13	0.19	0.25	0.38	0.5
3 to 110 rpm	0.002 to 0.09	0.01 to 0.3	0.01 to 0.5	0.03 to 0.9	0.05 to 1.7
	0.002 to 0.09	0.01 to 0.3	0.01 to 0.5	0.02 to 0.8	0.04 to 1.4
Bore mm	0.63	0.76	0.88	1.02	1.14
3 to 110 rpm	0.08 to 3.1	0.13 to 4.6	0.17 to 6.4	0.22 to 8.1	0.27 to 9.9
	0.07 to 2.6	0.11 to 3.9	0.14 to 5.3	0.18 to 6.6	0.28 to 8.8

USA +1.800.323.4340
+1.847.549.7600
Canada +1.800.363.5900
China +86.21.5109.9909
India +1.800.266.1244

UK +44 (0) 1480.272279
+33 (0) 1.87.170142*
+49 (0) 937.792030*
Italy +39.02.84349215
All others +1.847.549.7600

Performance (continued)

MCS eight-roller five-channel low-flow microcassette pump heads — tube bore and flow rates (mL/min)					
Bore mm	1.29	1.42	1.52	1.65	1.85
3 to 110 rpm	0.35 to 10	0.46 to 12	0.52 to 14	0.6 to 17	0.76 to 20
	0.27 to 10	0.33 to 12	0.38 to 14	0.46 to 17	0.55 to 20
Bore mm	2.05	2.29	2.54	2.79	
3 to 110 rpm	0.9 to 24	1.1 to 29	1.3 to 33	1.4 to 36	—
	0.65 to 24	0.79 to 29	0.9 to 33	0.98 to 36	—

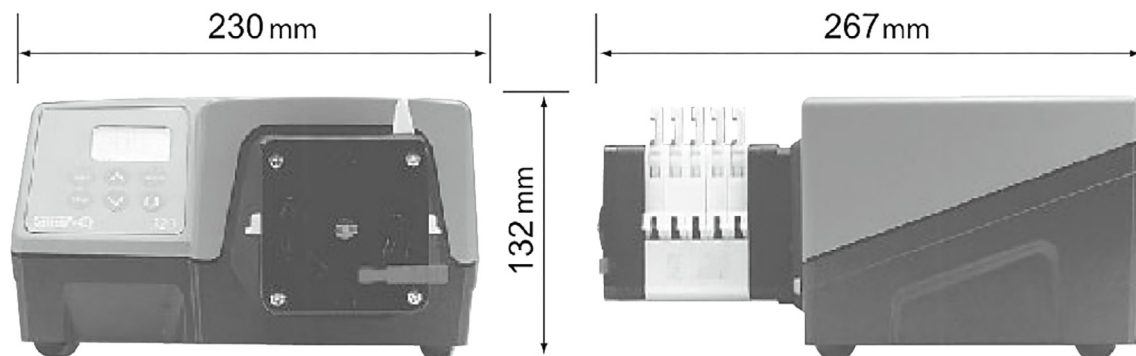
Technical Specifications

Specification	Description
Pump head number of rollers	8
Pump head number of channels	5
Max. flow rate	36 mL/min
Min. flow rate	0.002 mL/min
Max. continuous operating speed	110 rpm
Compatible tubing bore size	0.13, 0.19, 0.25, 0.38, 0.5, 0.63, 0.76, 0.88, 1.02, 1.14, 1.29, 1.42, 1.52, 1.65, 1.85, 2.05, 2.29, 2.54

Materials of Construction

Component	Material
Adapter plate	IXEF® (polyarylamide)
Pump head body assembly	Aluminum
Pump head roller assembly	MoS2-filled nylon 6 (Nylatron®)
Pump head rotor assembly	Aluminum

323 DRIVE WITH MC8 PUMP HEAD DIMENSIONS



Ordering Information

Pump heads		
Model	Description	Item number
318MC	Microcassette Pump Head, 5-Channel, 8-Roller	50130-18
318MCX	Microcassette Extension Pump Head, 5-Channel, 8-Roller	50130-19
300 series drives		
Model	Description	Item number
323S	Variable-Speed Pump Drive, Manual Control, 3 to 400 rpm; US Plug	50130-20
323S	Variable-Speed Pump Drive, Manual Control, 3 to 400 rpm; UK Plug	50131-90
323S	Variable-Speed Pump Drive, Manual Control, 3 to 400 rpm; EU Plug	50131-80
323U	Variable-Speed Pump Drive, Analog/Manual Control, 3 to 400 rpm; US Plug	50142-16
323Du	Variable-Speed Pump Drive, RS-232/Analog/Manual Control, 3 to 400 rpm; US Plug	50130-21
323Du	Variable-Speed Pump Drive, RS-232/Analog/Manual Control, 3 to 400 rpm; UK Plug	50131-82
323Du	Variable-Speed Pump Drive, RS-232/Analog/Manual Control, 3 to 400 rpm; EU Plug	50131-81

Ordering Information (continued)

Tubing				
Color code	Tube (mm)	Marprene	PVC	Silicone
Orange/black	0.13	–	50130-52	–
Orange/red	0.19	–	50130-53	–
Orange/blue	0.25	50130-35	50130-54	–
Orange/green	0.38	50130-36	50130-55	–
Orange/yellow	0.50	50130-37	50130-56	–
Orange/white	0.63	50130-38	50130-57	50130-71
Black/black	0.76	50130-39	50130-58	50130-72
Orange/orange	0.88	50130-40	50130-59	50130-73
White/white	1.02	50130-41	50130-60	50130-74
Red/red	1.14	50130-42	50130-61	50130-75
Grey/grey	1.29	50130-43	50130-62	50130-76
Yellow/yellow	1.42	50130-44	50130-63	50130-77
Yellow/blue	1.52	50130-45	50130-64	50130-78
Blue/blue	1.65	50130-46	50130-65	50130-79
Green/green	1.85	50130-47	50130-66	50130-80
Purple/purple	2.05	50130-48	50130-67	50130-81
Purple/black	2.29	50130-49	50130-68	50130-82
Purple/orange	2.54	50130-50	50130-69	50130-83
Purple/white	2.79	50130-51	50130-70	50130-84



All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. The information contained in this document is believed to be correct but Cole-Parmer accepts no liability for any errors it contains and reserves the right to alter specifications without notice. It is the user's responsibility to ensure product suitability for use within their application. Watson-Marlow and Marprene are registered trademarks of Watson-Marlow Limited. Please state the item number when ordering pumps and tubing.