



Improving your PERFORMANCE

323U/MC4 Low-flow analogue auto/manual control microcassette pumps

Technical information and features

- Rear panel 25D socket accepts analogue auto-control signal input for speed control 4-20mA, 0-10V
- Digital TTL or remote switch inputs for run/stop and direction
- Flow rates from 2µl to 53 ml/min per channel
- Precision digital speed control 1rpm steps from 3 to 110rpm
- Fitted with 314MC four-roller five channel microcassette pumphead
- Add one snap-fit 314MCX extension pumphead for ten channels of flow
- High visibility digital display with keypad lock
- Compact design, chemical resistant case, contemporary styling
- Zero maintenance, quiet brushless DC motor
- MemoDose facility for accurate single shot dosing
- Auto-restart for mains failure recovery and timer control
- Uses colour coded, double segment manifold tubes



323U/MC4



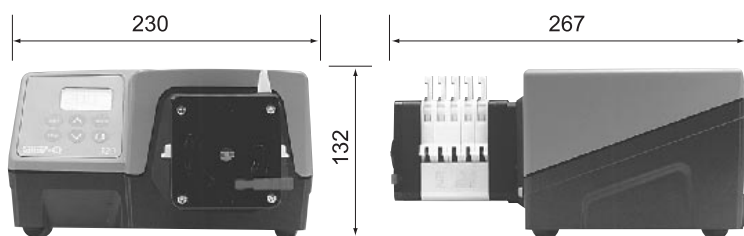
323U/MC4 + 314MCX



Flow rate ranges (ml/min)

Tube code	Orange/Black	Orange/Red	Orange/Blue	Orange/Green	Orange/Yellow	Orange/White	Black/Black	Orange/Orange	White/White	Red/Red	Grey/Grey	Yellow/Yellow	Yellow/Blue
Bore mm	0.13	0.19	0.25	0.38	0.50	0.63	0.76	0.88	1.02	1.14	1.29	1.42	1.52
3.0rpm	0.002	0.01	0.01	0.03	0.05	0.08	0.13	0.17	0.22	0.27	0.35	0.46	0.52
110rpm	0.09	0.3	0.5	0.9	1.7	3.1	4.6	6.4	8.1	9.9	13	17	19

Tube code	Blue/Blue	Green/Green	Purple/Purple	Purple/Black	Purple/Orange	Purple/White
Bore mm	1.65	1.85	2.05	2.29	2.54	2.79
3.0rpm	0.60	0.76	0.90	1.1	1.3	1.4
110rpm	22	28	33	40	47	53



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Product codes		
323U 3.0-400rpm	drive only	036.3144.000*
314MC	four roller five channel pumphead	033.6453.000
314MCX	four roller five channel extension pumphead	033.6454.000

*Replace last 0 with A, E or U for American, European or UK mains supply (American 110V 1ph 60Hz)

Tube ordering codes				
Double pump segment for 314MC pumpheads				
Colour code	Tube	Marprene*	PVC	Silicone
Orange/black	0.13		981.0013.000	
Orange/red	0.19		981.0019.000	
Orange/blue	0.25	979.0025.000	981.0025.000	
Orange/green	0.38	979.0038.000	981.0038.000	
Orange/yellow	0.50	979.0050.000	981.0050.000	
Orange/white	0.63	979.0063.000	981.0063.000	983.0063.000
Black/black	0.76	979.0076.000	981.0076.000	983.0076.000
Orange/orange	0.88	979.0088.000	981.0088.000	983.0088.000
White/white	1.02	979.0102.000	981.0102.000	983.0102.000
Red/red	1.14	979.0114.000	981.0114.000	983.0114.000
Grey/grey	1.29	979.0129.000	981.0129.000	983.0129.000
Yellow/yellow	1.42	979.0142.000	981.0142.000	983.0142.000
Yellow/blue	1.52	979.0152.000	981.0152.000	983.0152.000
Blue/blue	1.65	979.0165.000	981.0165.000	983.0165.000
Green/green	1.85	979.0185.000	981.0185.000	983.0185.000
Purple/purple	2.05	979.0205.000	981.0205.000	983.0205.000
Purple/black	2.29	979.0229.000	981.0229.000	983.0229.000
Purple/orange	2.54	979.0254.000	981.0254.000	983.0254.000
Purple/white	2.79	979.0279.000	981.0279.000	983.0279.000

* For autoclavable Marprene tubing, please replace last "0" with "*" - for example 979.0238.00*

Please state the product code when ordering pumps and tubing

Specification

Weight	5.0kg
Operational temperature range	5°C to 40°C
Noise	<70dBA at 1m
Control ratio	133:1
Standards	CE, BS0800, IEC335-1, EN60529 (IP31)
Supply	1ph, 100-120V, 220-240V 50/60Hz, 100VA

Materials of construction

Drive	
Drive base	Powder coated aluminium casework
Drive top	Self-coloured ABS plastic
Pumphead	
Cassettes	Acetal copolymer-Kematal (PVDF optional)
Fixings	Stainless steel pins
Mounting plate, front and rear	Glass filled Nylon
Pumphead cradle	Aluminium extrusion, anodised
Rollers	MoS2 filled Nylon 6 (Nylatron)
Rotor spindle carriers	Machined aluminium
Spindles	Stainless steel
Fixings	Stainless steel
Sealed bearings	Carbon steel



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