



Improving your PERFORMANCE

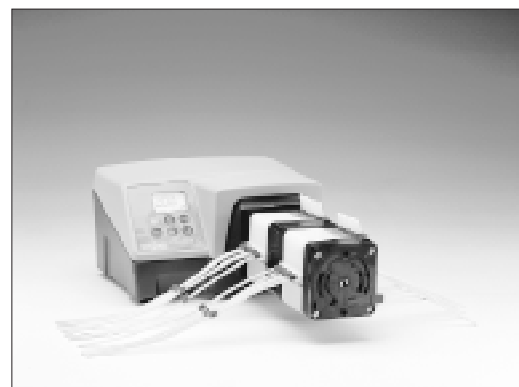
323Du/MC8 Low-flow RS232/analogue/manual control microcassette pumps

Technical information and features

- RS232 serial communication
- High-performance microprocessor controlled pumps
- Flow rates from 2µl/min to 36ml/min per channel
- Precision digital speed control 1rpm steps from 3 to 110rpm
- Fitted with lower-pulsing 318MC eight-roller 5 channel microcassette pumphead
- Add one snap-fit 318MCX extension pumphead for ten channels of flow
- Digital TTL or remote switch inputs for run/stop and direction
- Rear panel 25D socket accepts analogue auto-control signal input for speed control 4-20mA, 0-10V
- High visibility digital display and 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 tubing



323Du/MC8



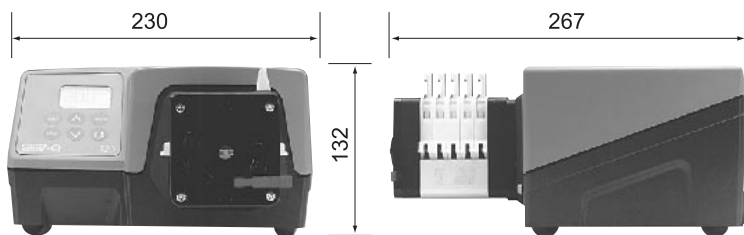
323Du/MC8 + 318MCX



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	0.02	0.04	0.07	0.11	0.14	0.18	0.24	0.27	0.33	0.38
110rpm	0.09	0.3	0.5	0.8	1.4	2.6	3.9	5.3	6.6	8.8	10	12	14

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	0.46	0.55	0.65	0.79	0.90	0.98
110rpm	17	20	24	29	33	36



323Du/MC8 Low-pulse RS232/analogue/ manual control microcassette pumps

Product codes		
323Du 3.0-400rpm	drive only	036.3154.000*
318MC	eight roller five channel pumphead	033.6853.000
318MCX	eight roller five channel extension pumphead	033.6854.000

*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 318MC pumpheads				
Colour code	Tube (mm)	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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