



Improving your PERFORMANCE

205U/CA auto/manual control multi-channel cassette pump

Technical information and features

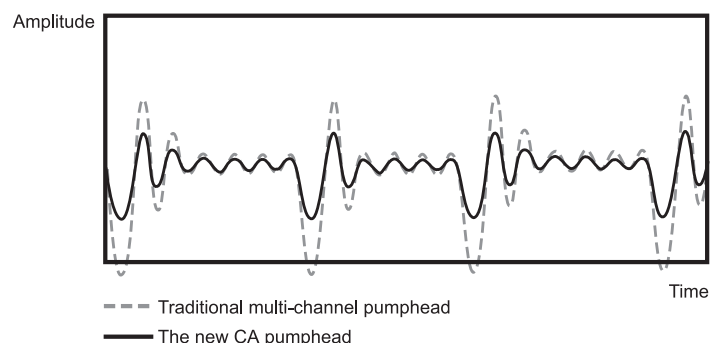
- Flow rates from 0.6 microlitres to 22ml/min, accuracy from 0.5%
- Pump speed can be controlled by a programmable analogue signal up to 30V or 32mA, providing either a rising or falling flow rate against a rising process signal. 0.5V tachometer output to indicate speed
- Remote zero volt or TTL switching for all pump functions
- Flow adjustment via 20 tube sizes and drive speed from 0.5rpm to 90rpm
- Precision cassettes with lockable 30 turn occlusion scale for fine tuning of flows
- 4, 8, 12 and 16 channel pumpheads, can be extended up to 32 channels
- Cassette with sprung track for ideal flow and pressure performance with separate dedicated release lever
- Eight driven rollers on planetary gear drive for ultra low pulsation

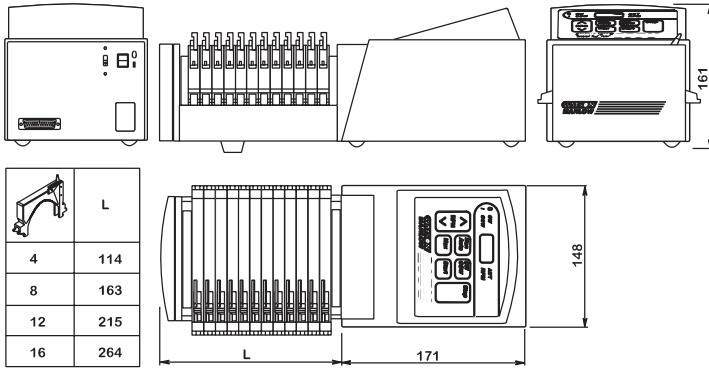


Flow rate ranges (ml/min)

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
0.5rpm	0.0006	0.0009	0.0013	0.0036	0.0056	0.0083	0.011	0.016	0.021	0.026	0.033	0.040	0.043
90rpm	0.099	0.15	0.23	0.65	1.01	1.49	2.02	2.92	3.76	4.68	5.94	7.20	7.69

Tube code	Blue/Blue	Green/Green	Purple/Purple	Purple/Black	Purple/Orange	Purple/White
Bore mm	1.65	1.85	2.05	2.38	2.54	2.79
0.5rpm	0.051	0.063	0.076	0.092	0.11	0.12
90rpm	9.12	11.3	13.8	16.5	19.3	22.0





205U/CA auto/manual control multi-channel cassette pump

Product codes		
205U/CA4	205U + 4 channel CA pumphead	020.5704.00U
205U/CA8	205U + 8 channel CA pumphead	020.5708.00U
205U/CA12	205U + 12 channel CA pumphead	020.5712.00U
205U/CA16	205U + 16 channel CA pumphead	020.5716.00U
205U	205 auto control drive only	026.5001.00U
205CA4	4 channel CA pumphead	023.1101.000
205CA8	8 channel CA pumphead	023.1201.000
205CA12	12 channel CA pumphead	023.1301.000
205CA16	16 channel CA pumphead	023.1401.000
205CAX12	12 channel extension CA pumphead	053.3442.000
205CAX16	16 channel extension CA pumphead	053.3462.000

Tube ordering codes						
Manifold pump tubing for 205CA						
Colour code	Tube	Marprene*	PVC	Silicone	Solvent	Acid
Orange/black	0.13		980.0013.000		984.0013.000	
Orange/red	0.19		980.0019.000		984.0019.000	
Orange/blue	0.25	978.0025.000	980.0025.000		984.0025.000	
Orange/green	0.38	978.0038.000	980.0038.000		984.0038.000	
Orange/yellow	0.50	978.0050.000	980.0050.000		984.0050.000	986.0050.000
Orange/white	0.63	978.0063.000	980.0063.000	982.0063.000	984.0063.000	986.0063.000
Black/black	0.76	978.0076.000	980.0076.000	982.0076.000	984.0076.000	986.0076.000
Orange/orange	0.88	978.0088.000	980.0088.000	982.0088.000	984.0088.000	986.0088.000
White/white	1.02	978.0102.000	980.0102.000	982.0102.000	984.0102.000	986.0102.000
Red/red	1.14	978.0114.000	980.0114.000	982.0114.000	984.0114.000	986.0114.000
Grey/grey	1.29	978.0129.000	980.0129.000	982.0129.000	984.0129.000	986.0129.000
Yellow/yellow	1.42	978.0142.000	980.0142.000	982.0142.000	984.0142.000	986.0142.000
Yellow/blue	1.52	978.0152.000	980.0152.000	982.0152.000	984.0152.000	986.0152.000
Blue/blue	1.65	978.0165.000	980.0165.000	982.0165.000	984.0165.000	986.0165.000
Green/green	1.85	978.0185.000	980.0185.000	982.0185.000	984.0185.000	986.0185.000
Purple/purple	2.05	978.0205.000	980.0205.000	982.0205.000	984.0205.000	986.0205.000
Purple/black	2.38	978.0238.000	980.0238.000	982.0238.000	984.0238.000	986.0238.000
Purple/orange	2.54	978.0254.000	980.0254.000	982.0254.000	984.0254.000	986.0254.000
Purple/white	2.79	978.0279.000	980.0279.000	982.0279.000	984.0279.000	986.0279.000

* For autoclavable Marprene tubing, please replace last "0" with "***" - for example 978.0238.00*

Please state the product code when ordering pumps and tubing

Specification

Weight	205U/CA4	6.5kg
	205U/CA8	7.6kg
	205U/CA12	8.8kg
	205U/CA16	10.0kg
	205U	4.1kg
	205CA4	2.4kg
	205CA8	3.5kg
	205CA12	4.7kg
	205CA16	5.9kg
	205CAX12	4.7kg
	205CAX16	5.9kg

Operational temperature range 5°C to 40°C

Supply 1ph, 100-120V, 200-240V
50/60Hz, 60VA

Control ratio 180:1

Standards CE, BS EN 50082-1,
BS EN 61010-1,
BS EN (IP31)

Materials of construction

Drive external Aluminium case upper,
painted steel base,
polyester keypad

Cassette Verton body, Kematal
track and leg (standard)
Verton body/PVDF track
and leg (optional)
Stainless steel pins

Pumphead body Aluminium chassis, brass
sun gear, Acetal planetary
gear

Rotor Stainless steel rollers,
aluminium end plates

Guard Verton gear guards and
end cover

Verton is a glass filled polypropylene with excellent chemical resistance



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