



Improving your PERFORMANCE

## 505CA multichannel cassette pumphead

### Technical Information

- Flow rates from 0.6 microlitres to 42 millilitres per minute
- Flow adjustment through 20 tube sizes and drive speed up to 170rpm
- Fine, lockable 30 turn occlusion scale for fine tuning of flows
- Flow rates accuracy from 0.5%
- Single pumpheads from 4 to 16 channels
- Extension pumpheads to take the pump up to 48 channels
- Cassettes have a sprung track for ideal flow and pressure performance
- 8 driven rollers on planetary gear drive for ultra low pulsation
- Separate dedicated cassette release lever
- Two year comprehensive warranty



#### Flow rate ranges (ml/min)

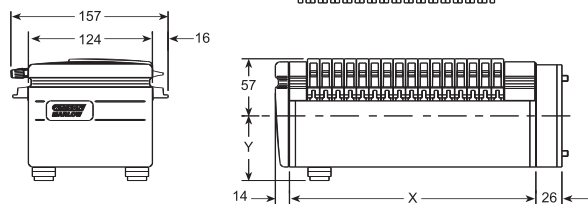
	Tube bore and flow rates (ml/min)					
	Speed rpm	0.13mm	0.19mm	0.25mm	0.38mm	0.50mm
520S, 520U	0.1-55	0.0006-0.061	0.009-0.09	0.0014-0.16	0.0024-0.27	0.004-0.44
520Du, 505Di	0.1-55	0.0003-0.061	0.004-0.09	0.0007-0.16	0.0012-0.27	0.002-0.44
Max permissible speed	170	0.19	0.29	0.44	1.22	1.90

	Tube bore and flow rates (ml/min)					
	Speed rpm	0.63mm	0.76mm	0.88mm	1.02mm	1.14mm
520S, 520U	0.1-55	0.008-0.79	0.010-1.16	0.014-1.54	0.20-2.04	0.022-2.51
520Du, 505Di	0.1-55	0.004-0.79	0.005-1.16	0.007-1.54	0.009-2.04	0.01-2.51
Max permissible speed	170	2.82	3.81	5.51	7.11	8.84

	Tube bore and flow rates (ml/min)					
	Speed rpm	1.29mm	1.42mm	1.47mm	1.52mm	1.65mm
520S, 520U	0.1-55	0.030-3.22	0.034-3.32	0.038-4.14	0.040-4.37	0.046-5.05
520Du, 505Di	0.1-55	0.015-3.22	0.017-3.32	0.019-4.14	0.020-4.37	0.023-5.05
Max permissible speed	170	11.2	13.6	14.5	14.5	17.4

	Tube bore and flow rates (ml/min)					
	Speed rpm	1.85mm	2.05mm	2.38mm	2.54mm	2.79mm
520S, 520U	0.1-55	0.060-6.31	0.070-7.60	0.090-9.84	0.11-11.0	0.12-12.8
520Du, 505Di	0.1-55	0.029-6.31	0.035-7.60	0.045-9.84	0.050-11.0	0.060-12.8
Max permissible speed	170	21.4	26.0	31.2	36.5	41.6

PUMPHEAD	DIM "X"
4	99
8	148
12	197
16	246



## 505CA multichannel cassette pumphead

Product codes		
505CA4		053.4202.000
505CA8		053.4222.000
505CA12		053.4242.000
505CA16		053.4262.000
505CAX12		053.3442.000
505CAX16		053.3462.000

Tube ordering codes						
Manifold pump tubing for 505CA						
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

### Specification

<b>Weight</b>	505CA4	2.7kg
	505CA8	3.8kg
	505CA12	5.0kg
	505CA16	6.2kg
	505CAX12	4.7kg
	505CAX16	5.9kg

### Standards

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

### Materials of Construction

<b>Drive external</b>	Aluminium case upper, painted steel base, polyester keypad
<b>Cassette</b>	Verton body, Kematal track and leg (standard) Verton body/PVDF track and leg (optional) Stainless steel pins
<b>Pumphead body</b>	Aluminium chassis, brass sun gear, Acetal planetary gear
<b>Rotor</b>	Stainless steel rollers, aluminium end plates
<b>Guard</b>	Verton gear guards and end cover

Verton is a glass filled polypropylene with excellent chemical resistance



Watson-Marlow-Bredel Pumps  
Falmouth  
Cornwall  
England  
TR11 4RU  
Tel: +44 (0) 1326 370370  
Fax: +44 (0) 1326 376009  
www.watson-marlow.com  
Email support4gb@watson-marlow.co.uk