

520Di IP31 high accuracy dispenser fitted with 505CA multi-channel cassette pumpheads

500series

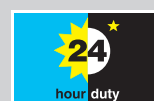
Flexicon Liquid Filling

FEATURES

- 505CA cassette pump features eight planetary gear driven rollers for ultra low pulsation. Note that the 505CA pumphead can only be run up to a maximum of 170rpm
- Cassettes have a sprung track and accept 20 different sizes of colour coded manifold tubing. Up to 48 pumping channels can be achieved from a single drive
- +/-0.5% accuracy per channel
- Calibration by weight or by volume
- "Suck-back" facility eliminates drips at dose end
- RS232 control via serial communications
- Simple security protection code protects set functions. Comprehensive security protection can be incorporated to protect dispensing parameters and calibration values
- Up to 50 dispensing programs including dose parameters and calibration, can be stored in the memory with full name



Flexicon...Filled with experience



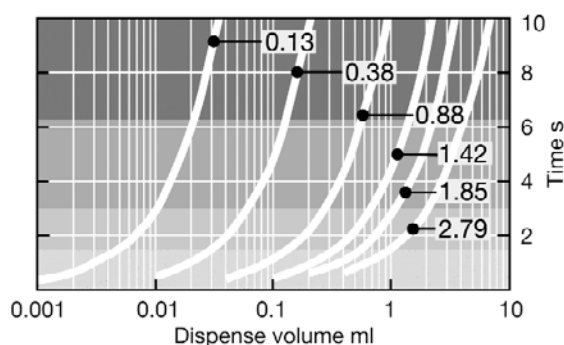
TECHNICAL DATA

Pump drives	520Di
Enclosure	
Ingress protection rating	IP31
Manual control	
Digital speed control with full calibration to display flow	•
Choice of flowrate or speed display	•
Numerical keypad for entry of speed	•
Remote control	
Run/Stop, direction change, auto/manual toggle, leak detector input (via contact closure or 5V TTL or 24V industrial logic)	•
Remote operation of Dosestart with instantaneous switch	•
Four programmable digital status outputs through 24V, 30W relays	
Digital communication	
Digital network serial control	RS232
Security	
Security code to protect set-up, programs and dose parameters	•

PERFORMANCE

520Di/CA recommended dose sizes (ml)							
Maximum speed	Tube bore	0.13mm	0.38mm	0.88mm	1.42mm	1.85mm	2.97mm
170rpm	Minimum dose	0.001ml	0.015ml	0.06ml	0.16ml	0.25ml	0.48ml
	Maximum dose	0.04ml	0.25ml	1.0ml	3.75ml	7.50ml	400ml

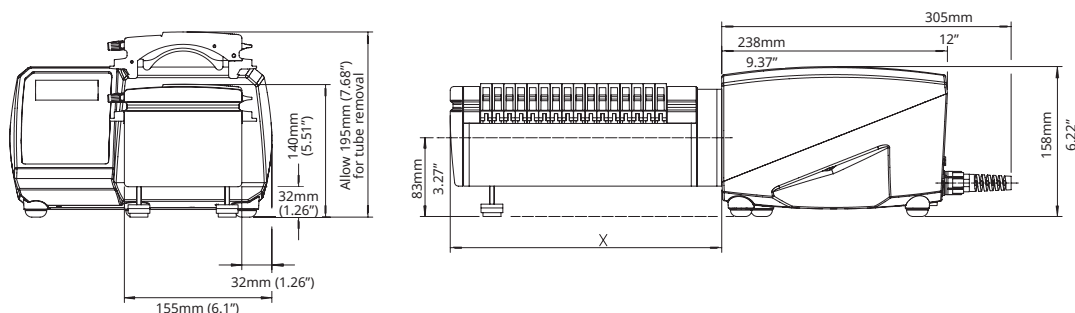
520 Di/L flow rates (ml/min)										
Tube bore	0.13mm	0.19mm	0.25mm	0.38mm	0.50mm	0.63mm	0.76mm	0.88mm	1.02mm	1.14mm
Speed range 0.1 to 170rpm	0.0001-0.20	0.0002-0.31	0.0003-0.44	0.0007-1.22	0.0011-1.90	0.0017-2.82	0.0022-3.74	0.0032-5.44	0.0042-7.14	0.0052-8.84
Tube bore	1.29mm	1.42mm	1.52mm	1.65mm	1.85mm	2.05mm	2.29mm	2.54mm	2.79mm	
Speed range 0.1 to 170rpm	0.0066-11.2	0.0080-13.6	0.0086-14.6	0.010-17.3	0.013-21.4	0.015-25.8	0.018-31.3	0.022-37.4	0.024-40.8	



Dispense volume against time for the 520Di/L pump with a selection of tubes. Dispensing accuracy is indicated by the background shade

- within ±5.0%
- within ±2%
- within ±1.0%
- within ±0.5%

DIMENSIONS



TECHNICAL SPECIFICATIONS

Weight	10.7kg (23lb 9oz)
Operational Temperature range	5C to 40C (40F to 104F)
Noise	<70dB(A) at 1m
Control ratio	2200:1
Standards	CE, cETLus
Supply	110V/230V, 1ph, 50/60Hz

MATERIALS OF CONSTRUCTION

Component	Material
Drive casework	Pressure die-cast aluminium LM24
Casework coating	Alocrom pre-treatment, exterior grade polyester powder coat
Keypad	Polyester
Switch plate	Glass ABS plastic
Rear blanking plate	Stainless Steel 304
Gearbox nose	Aluminium LM24M
Drive shaft	Electroless nickel plated carbon steel
Cassette	Verton body, Kernatal 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

ORDER INFORMATION

520Di drive and 505CA pumphead ordering information		
Pump	Specification	Product code
520Di 170rpm IP31 drive	100-120V/220-240V 50/60Hz 1ph 100VA	056.7171.000*
505CA4	Four channel pumphead	053.4202.000
505CA8	Eight channel pumphead	053.4222.000
505CA12	Twelve channel pumphead	053.4242.000
505CA16	Sixteen channel pumphead	053.4262.000
505CAX12	Twelve channel extension pumphead	053.3442.000
505CAX16	Sixteen channel extension pumphead	053.3462.000

*Replace 0 with A, E or U for American, European or UK mains lead

Tube ordering codes						
Manifold pump tubing for 505CA						
Colour code	Tube	Marprene*	PVC	Silicone	Solvent resistant	Acid resistant
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 replace the last zero with a +. For example 978.0025.00+ is 0.8mm wall, 0.25mm bore autoclavable Marprene manifold tube.

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Liquid Filling

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