



Improving your PERFORMANCE

521I/R2C inverter controlled pumps

Technical Information

- New 520R2C pumphead features PPS (Polyphenylene sulfide) track and rotor, with stainless steel occlusion rollers to resist chemical attack and abrasive wear
- Large track swept volume and two roller rotor design for flows from 2.5ml/minute to 4600ml/min.
- Heavy duty construction with clear impact proof safeguard, and robust tube clamps which ensure grip in poor operating environments
- Non-adjustable sprung rotor, gently compresses tubing using large low friction rollers with sealed bearings, guaranteeing long tube life and accurate metering
- Fast and simple pumphead set-up using two position sprung tube clamps and clutched rotor for effortless tube loading
- Fixed speed three phase industrial AC motor gearbox, driven by pre-configured single phase Siemens Vector frequency inverter
- Digital and analogue input options and 10:1 speed reduction

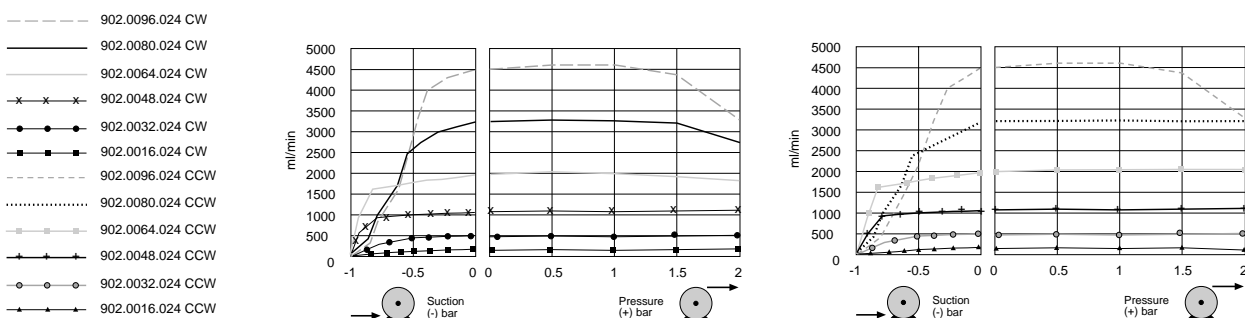


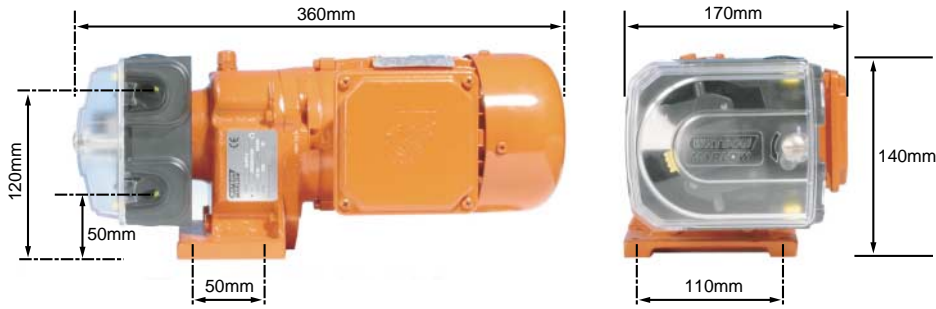
* ATEX compliant pumps for EU available from September 2003

Flow rate ranges (ml/min)

Tube material	Speed	Tube bore and flow rates (ml/min)					
		1.6mm	3.2mm	4.8mm	6.4mm	8.0mm	9.6mm
Neoprene, Sta-Pure, Chem-Sure, Tygon, Platinum-cured silicone	6 to 60rpm	2.6-26	11-110	24-240	42-420	66-660	95-950
	21 to 213rpm	9.2-94	37-370	83-840	150-1500	230-2300	330-3400
	29 to 291rpm	13-130	51-510	110-1200	200-2000	320-3200	460-4600
Marprene/Bioprene TL	60rpm	2.5-25	10-100	23-230	40-400	63-630	91-910
	213rpm	8.8-89	35-360	79-810	140-1400	220-2200	320-3200
	291rpm	12-120	49-490	110-1100	190-2000	300-3100	440-4400

521R2C Pumphead performance curve, with Marprene tubing at 291rpm





The dimensions may vary, please contact Watson Marlow

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Product codes			
Pump	rpm	Supply	Product code
521I/R2C Inverter driven	6 to 60	230V 50Hz 1 ph 0.25kW IP55	050.8522.2L0
	21 to 213	230V 50Hz 1 ph 0.25kW IP55	050.8552.2L0
	29 to 291	230V 50Hz 1 ph 0.25kW IP55	050.8572.2L0

Pumphead		
520R2C	Close coupled twin roller pumphead	053.1031.2L0
Close coupled accessories		
Universal baseplate and mounting kit		059.8000.000
313 pumphead mounting kit		059.8031.000
505L pumphead mounting kit		059.8051.000

Tube ordering codes			
Bore/wall (mm)	Bioprene	Marprene	Platinum Silicone
1.6 / 2.4	903.0016.024	902.0016.024	913.A016.024
3.2 / 2.4	903.0032.024	902.0032.024	913.A032.024
4.8 / 2.4	903.0048.024	902.0048.024	913.A048.024
6.4 / 2.4	903.0064.024	902.0064.024	913.A064.024
8.0 / 2.4	903.0080.024	902.0080.024	913.A080.024
9.6 / 2.4	903.0096.024	902.0096.024	913.A096.024
Bore/wall (mm)	STA-PURE [®]	Chem-Sure [®]	
1.6 / 2.4	960.0016.024	965.0016.024	
3.2 / 2.4	960.0032.024	965.0032.024	
4.8 / 2.4	960.0048.024	965.0048.024	
6.4 / 2.4	960.0064.024	965.0064.024	
8.0 / 2.4	960.0080.024	965.0080.024	

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Specification

Weight	11kg to 21kg
Operational Temperature range	5°C to 40°C
Noise	< 70dBb(A) at 1m
Control Ratio	10:1
Standards	CE, EN60529 (IP55)
Supply	230V 1ph 50Hz

Materials of Construction

Motor	Cast aluminium alloy
Gearbox	Cast iron
Track	PPS (polyphenylene sulfide) with 65% glass fibre and mineral fill
Rotor body and tube clamps	PPS (polyphenylene sulfide) 50% glass filled + 15% mineral
Springs, spindles and main rollers	Stainless steel 316S11 to S13
Guide rollers	Acetal copolymer
Guard	Polycarbonate, clear



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All flow rates shown were obtained pumping water at 20C (68F) with zero suction and delivery heads. Watson-Marlow, Bioprene and Marprene are trademarks of Watson-Marlow Limited. Disclaimer: The information contained in this document is believed to be correct but Watson-Marlow Limited accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.