

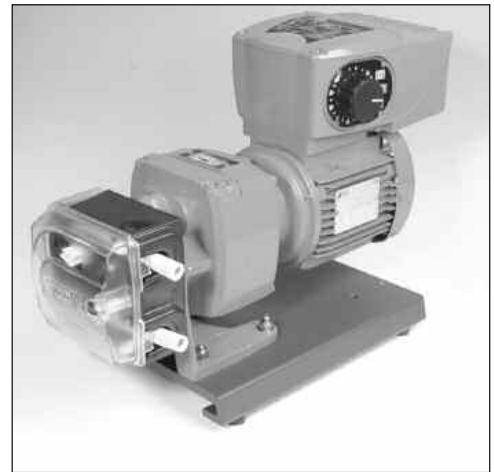


Improving your PERFORMANCE

## 521VI/R2C Varmeca variable speed 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 2.6ml/minute to 4400ml/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
- IP55 integrated frequency inverter/motor gearbox, offering 10:1 manual speed control (IP65 upgrades also available)
- Stop/forward/reverse control and analogue or digital remote control options

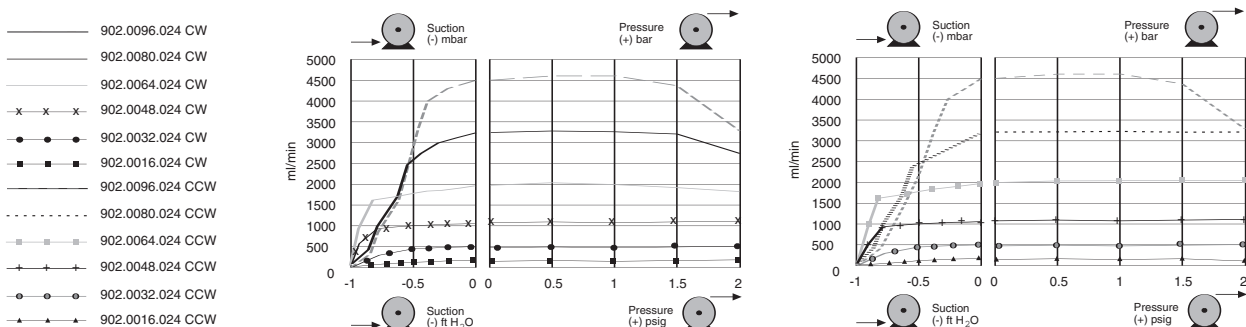


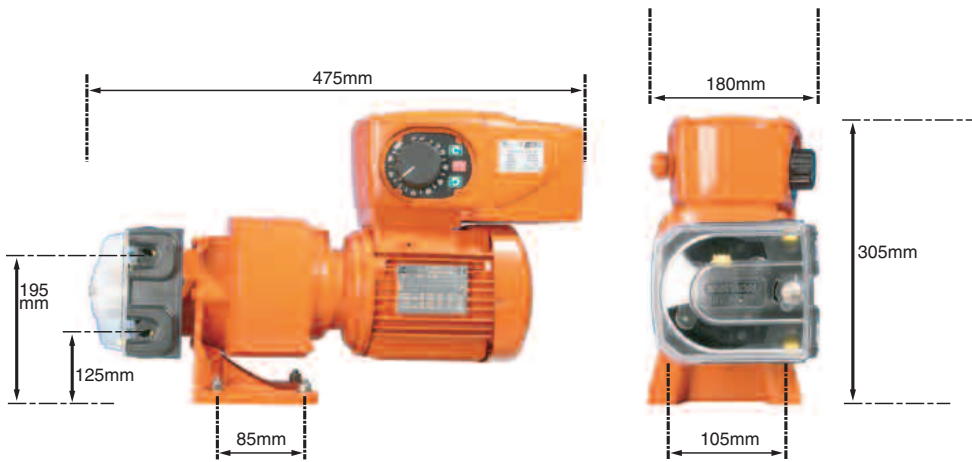
\* ATEX compliant pumps for EU available from September 2003

### 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 63rpm	2.6-28	11-110	24-250	42-440	66-690	95-1000
	22 to 220rpm	9.7-97	39-390	87-870	150-1500	240-2400	350-3500
	27 to 275rpm	12-120	48-480	110-1100	190-1900	300-3000	430-4400
Marprene/Bioprene TL	6 to 63rpm	2.5-26	10-110	23-240	40-420	63-660	91-950
	22 to 220rpm	9.2-92	37-370	83-830	150-1500	230-2300	330-3300
	27 to 275rpm	11-120	45-460	100-1000	180-1800	280-2900	410-4200

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





## 521VI/R2C Varmeca variable speed pumps

Product codes			
Pump	rpm	Supply	Product code
521VI/R2C Varmeca IP55 inverter driven	6 to 63	230V 50Hz 1 ph 0.25kW IP55	050.8822.2L0
	22 to 220	230V 50Hz 1 ph 0.25kW IP55	050.8852.2L0
	27 to 275	230V 50Hz 1 ph 0.25kW IP55	050.8872.2L0
521VI/R2C Varmeca IP55 inverter driven	6 to 63	110V 50Hz 1 ph 0.25kW IP55 (10:1)	050.8823.2L0
	22 to 220	110V 50Hz 1 ph 0.25kW IP55 (10:1)	050.8853.2L0
	27 to 275	110V 50Hz 1 ph 0.25kW IP55 (10:1)	050.8873.2L0

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 <sup>®</sup>	Chem-Sure <sup>®</sup>	
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

<b>Weight</b>	21kg
<b>Operational Temperature range</b>	5°C to 40°C
<b>Noise</b>	< 70dBb(A) at 1m
<b>Control Ratio</b>	10:1
<b>Standards</b>	CE, EN60529 (IP55) UL E211799
<b>Supply</b>	230V 50Hz 1ph, 110V 60Hz 1ph

### Materials of Construction

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