

# 521F with RC pumphead



500 series close-coupled pumps

## Features and benefits

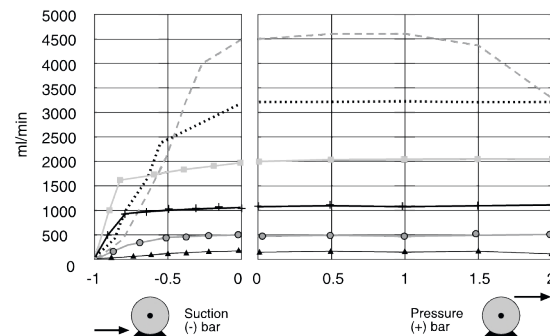
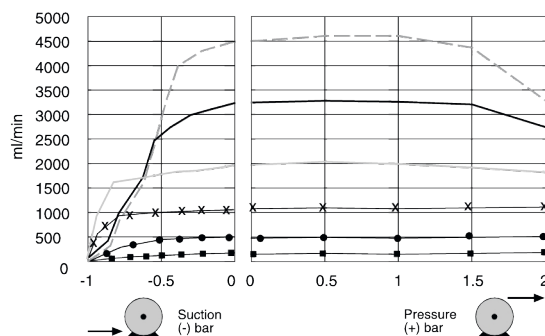
- Flow rates up to 4600 ml/min and peak pressure up to 2 bar
- Heavy-duty pumphead construction with impact-proof safeguard
- Sprung rotor gently compresses tubing using large low friction rollers with sealed bearings, guaranteeing long tube life and accurate metering
- Fast and simple pumphead set-up using a clutched rotor



## 521F with RC pumphead performance

| Tube bore and flow rates (ml/min)                             |             |       |       |       |       |       |       |
|---------------------------------------------------------------|-------------|-------|-------|-------|-------|-------|-------|
| Tube Material                                                 | Speed (rpm) | 1.6mm | 3.2mm | 4.8mm | 6.4mm | 8.0mm | 9.6mm |
| Neoprene, Sta-Pure, Chem-Sure, Tygon, Platinum-cured silicone | 60          | 26    | 110   | 240   | 420   | 660   | 950   |
|                                                               | 213         | 94    | 370   | 840   | 1500  | 2300  | 3400  |
|                                                               | 291         | 130   | 510   | 1200  | 2000  | 3200  | 4600  |
| Marprene/Bioprene TL                                          | 60          | 25    | 100   | 230   | 400   | 630   | 910   |
|                                                               | 213         | 89    | 360   | 810   | 1400  | 2200  | 3200  |
|                                                               | 291         | 120   | 490   | 1100  | 2000  | 3100  | 4400  |

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

## Technical specifications

|                                  | 521F with RC pumphead                   |
|----------------------------------|-----------------------------------------|
| Flow rate                        | 2.6 ml/min to 4600 ml/min               |
| Flow rate                        | 0.04 USGPH to 73 USGPH                  |
| Max. operating pressure          | 2 bar (30 psi)                          |
| Fluid temperature                | -20 °C to 80 °C (-4 °F to 175 °F)       |
| Motor types                      | AC electric motor                       |
| Standards                        | CE                                      |
| Ingress Protection               | IP55                                    |
| Noise                            | <70dBb(A) at 1m                         |
| Weight                           | 10 - 15 kg (22 - 33 lbs)                |
| Power supply                     | 400 V 50 Hz 3 ph                        |
| Compatible tubing bore size      | 0.5, 0.8, 1.6, 3.2, 4.8, 6.4, 8, 9.6 mm |
| Compatible tubing wall thickness | 1.6 mm                                  |

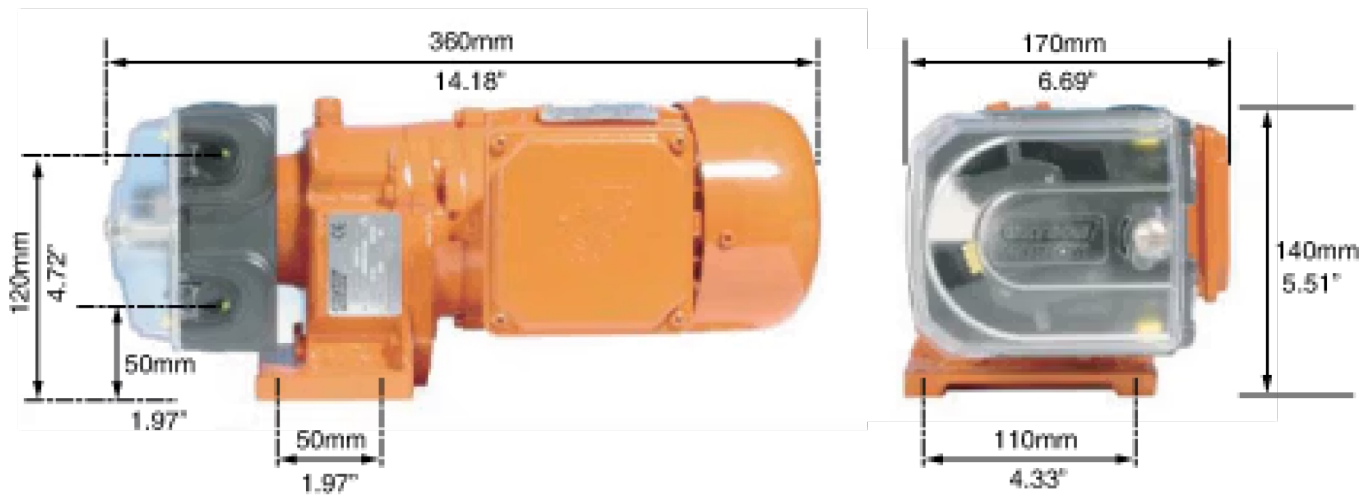
Table lists details for fixed speed pumps. For more detail on drive, AC motor and inverter options please contact your local Watson-Marlow Fluid Technology Solutions representative.

Materials of construction

|                         | 521F with RC pumphead                             |
|-------------------------|---------------------------------------------------|
| Bearings                | Stainless steel                                   |
| Gearbox                 | Cast iron                                         |
| Guide roller assembly   | Stainless steel                                   |
| Motor                   | Aluminium                                         |
| Mounting plate assembly | Aluminium                                         |
| Pumphead guard          | Polycarbonate (PC)                                |
| Pumphead rotor assembly | Polyphenylene sulphide (PPS), Stainless steel 316 |
| Pumphead track          | Glass filled PPS (polyphenylene sulphide)         |

Information listed covers the complete range of fixed speed pumps.  
For detailed specifications of individual models/components and other drive/pumphead options, refer to user manual or contact your local Watson-Marlow Fluid Technology Solutions representative.

521F with RC pumphead dimensions



Product codes

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. Watson-Marlow, Pumpsil, PureWeld XL, 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. GORE and STA-PURE are trademarks of W. L. Gore & Associates. Please state the product code when ordering pumps and tubing.



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