

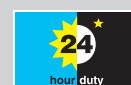
# 521F/REHC fixed speed and 521P/REHC 4-7 bar pneumatic pumps fitted with LoadSure® element pumphead

# 500series

Watson-Marlow Pumps

## FEATURES AND BENEFITS

- Flow rates up to 600 ml/min (9.5 USGPH) at 7 bar (100psi) peak pressure with 520 LoadSure® elements
- 520REHC pumphead features PPS (polyphenylene sulphide) track and rotor with stainless steel occlusion rollers to resist chemical attack and abrasive wear
- 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 for effortless element loading



*Watson-Marlow...Innovation in Full Flow*

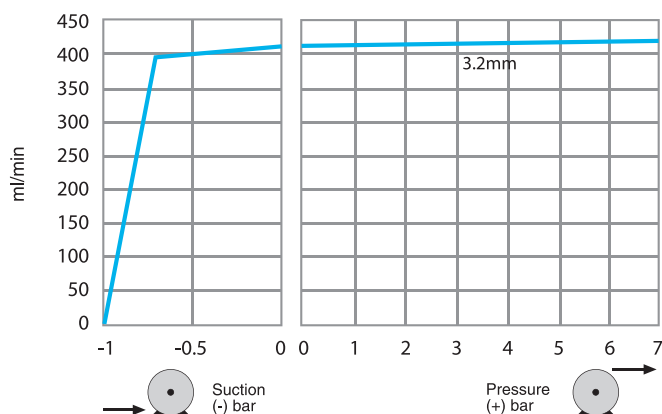
## TECHNICAL DATA

| Pump drives   | 521F | 521P |
|---|------|------|
| Three phase AC motor gearbox in three speed options | •    |      |
| Industry standard motors                            | •    | •    |
| Four vane pneumatic motor with speed limiting       |      | •    |
| Speed control ratio (with suitable equipment)       | 10:1 | 5:1  |
| Reversible with suitable equipment                  | •    | •    |
| Optional baseplate mounting                         | •    | •    |

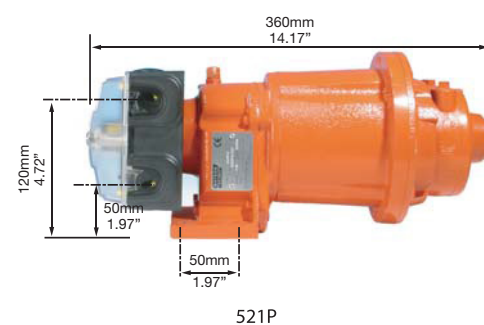
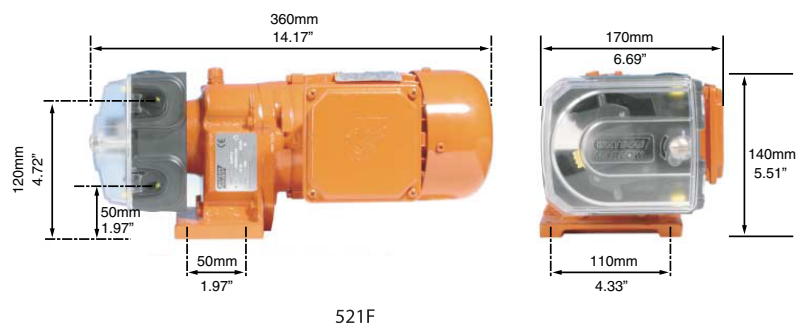
## PERFORMANCE

| LoadSure® element tubing flow rates (ml/min) |           |        |
|--|-----------|--------|
| Tube material                                | Speed     | 3.2mm  |
| Marprene TH, Bioprene TH, STA-PURE PCS       | 6-60rpm   | 12-120 |
|  | 21-213rpm | 43-440 |
|  | 29-291rpm | 59-600 |
| Marprene TH, Bioprene TH, STA-PURE PCS       | 257rpm    | 53-530 |

Marprene TH/Sta-Pure 4-7bar CCW 200rpm



## DIMENSIONS



## TECHNICAL SPECIFICATION

|                | 521F                    | 521P   |
|----------------|-------------------------|--|
| Ingress rating | IP55                    | IP55   |
| Temperature    | 5C to 40C (40F to 104F) | 5C to 40C (40F to 104F)                                  |
| Pump weight    | 11kg (24lb 4oz)         | 11kg (24lb 4oz)  |
| Control ratio  | 10:1                    | 5:1  |
| Noise          | <70dB(A) at 1m          | <70dB(A) at 1m   |
| Standard       | CE, EN60529             | CE   |
| Supply         | 230/400V 3ph 50Hz       | Compressed air, clean/dry/lubricated                     |
| Power          | 0.18kW                  | Up to equivalent 0.56kW 14l/sec (30 cfm) @ 7bar (100psi) |

## MATERIALS OF CONSTRUCTION

| Component                | Material                     |
|--------------------------|------------------------------|
| Motor                    | Cast aluminium alloy         |
| Gearbox                  | Cast iron                    |
| Pumphead track           | PPS (polyphenylene sulphide) |
| Guard - inner/outer      | Polycarbonate                |
| Guard seal               | Neoprene                     |
| Rotor hub                | Stainless steel 316          |
| Roller arms, rotor cover | PPS (polyphenylene sulphide) |
| Rollers - main/guide     | Stainless steel              |
| Main roller bearings     | Stainless steel              |
| Drain port               | PP (polypropylene)           |
| Drain plug               | Hytrel                       |

## ORDER INFORMATION

| Pump and pumphead product codes |              |                       |              |
|---------------------------------|--------------|-----------------------|--------------|
| Description                     | Partcode     | Description           | Partcode     |
| 521F/REHC 60rpm pump            | 050.8122.EH0 |                       |              |
| 521F/REHC 213rpm pump           | 050.8152.EH0 |                       |              |
| 521F/REHC 291rpm pump           | 050.8172.EH0 | Leak detector         | 059.8111.000 |
| 520REHC pumphead                | 053.1031.EH0 | 521P/REHC 257rpm pump | 050.8252.EH0 |

| Element product codes |   |   |
|-----------------------|---|---|
|                       | Industrial LoadSure® elements<br>Quick-release PVDF connectors<br>3.2mm | Sanitary LoadSure® elements<br>3/4 in Sanitary PVDF connectors<br>3.2mm |
| Marprene TH           | 902.H032.PFQ  |   |
| Bioprene TH           |   | 933.H032.PFT  |
| STA-PURE PCS          | 960.H032.PFQ  | 960.H032.PFT  |

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. LoadSure is a trademark of Watson-Marlow Limited. © STA-PURE PFL and © STA-PURE PCS are registered trademarks of W.L Gore & Associates Inc. Please state the product code when ordering pumps and tubing.

**WATSON  
MARLOW  
Pumps**

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