

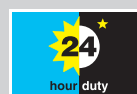
**530SN/REH, 530UN/REH, 530DuN/REH, 530S/REH,
530U/REH, 530Du/REH 4-7 bar pumps fitted with
LoadSure® element pumpheads**

500 series

Watson-Marlow Pumps

FEATURES AND BENEFITS

- Colour display and intuitive menu structures provide visual status indication and minimal key presses
- Flow rates up to 450 ml/min (7.13 USGPH) at 7 bar (100psi) constant pressure
- 520REH pumphead for use with quick-release industrial or sanitary Tri-clamp® LoadSure® elements for 4-7 bar operation
- 2200:1 speed control range from 0.1 to 220rpm in 0.1rpm increments
- Keypad incorporates 3-level security PIN lock
- IP31 (NEMA 2) and IP66 (NEMA 4X) cased pumps
- Dual voltage, 115V/230V 50/60Hz



Watson-Marlow...Innovation in Full Flow

TECHNICAL DATA

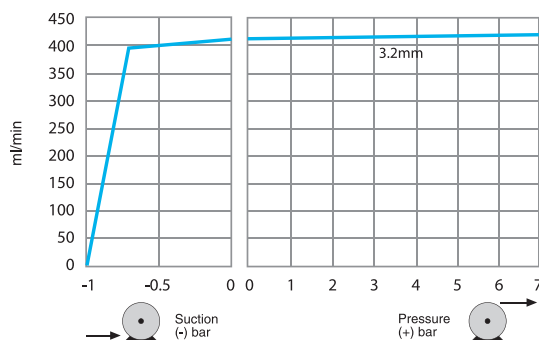
Pump drives	530SN	530UN	530DuN	530S	530U	530Du
Manual control						
Intuitive keypad and colour display	•	•	•	•	•	•
Choice of flowrate or speed display	•	•	•	•	•	•
Full calibration with choice of flow units	•	•	•	•	•	•
Remote control						
Configurable Start/Stop, leak detector and pressure switch input (via contact closure or 5V TTL or 24V industrial logic)		•	•		•	•
Direction change and auto/manual toggle input (via contact closure or 5V TTL or 24V industrial logic)		•	•		•	•
Remote operation of MemoDose (foot/hand-switch or logic input)		•	•		•	•
Four configurable digital status outputs through 24V, 30W relays		•	•			
Software configurable IP31 outputs					•	•
Analogue speed control						
Fully configurable inputs; 0-10V or 4-20mA		•	•		•	•
Analogue outputs; 0-10V, 4-20mA		•	•		•	•
Keypad/analogue input scaling (replacement of diaphragm pumps)			•			•
Tacho frequency output; 0-991Hz		•	•		•	•
Digital communication						
RS485 network control			•			
RS232 network control						•
Security						
3-level Security PIN lock	•	•	•	•	•	•

PERFORMANCE

LoadSure® element tubing flow rates (ml/min)

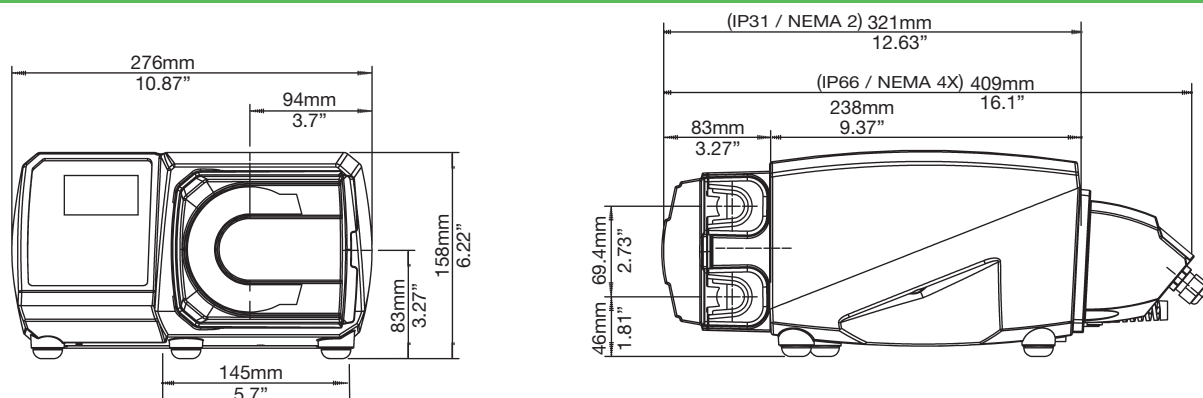
Tube material	Speed	3.2mm
Marprene® TH, Bioprene® TH, GORE® STA-PURE® Pump Tubing – Series PCS	0.1 to 220rpm	0.20-450

Marprene TH/ STA-PURE PCS 4-7bar CCW 200rpm



To achieve 7bar pressure the pump must rotate counter-clockwise

DIMENSIONS



TECHNICAL SPECIFICATION

	530SN, 530UN, 530DuN	530S, 530U, 530Du
Ingress rating	IP66 / NEMA 4X	IP31 / NEMA 2
Enclosure	Watertight / dustproof	Wipe-down
Suitability	Corrosion resistant for heavy industrial environments	Dry industrial environments with non-corrosive atmosphere
Humidity	(Condensing) 10-100% RH	(Non-condensing) 80% to 31C (88F) decreasing linearly to 50% at 40C (104F)
Temperature	5C to 40C (40F to 104F)	5C to 40C (40F to 104F)
Pump weight	10.7kg (23lb 9oz)	9.82kg (21lb 10oz)
Speed control ratio	2200:1	2200:1
Torque rating	2.2Nm, continuous duty	2.2Nm, continuous duty
Noise	<70dB(A) at 1m	<70dB(A) at 1m
Standard	CE, cETLus	CE, cETLus
Power supply	115/230V 1ph 50/60Hz	

MATERIALS OF CONSTRUCTION

Component	Material
Keypad	Polyester
Switch-plate	Glass filled ABS plastic
Rear blanking plate	Stainless steel 304
Drive casework	Pressure die-cast aluminium LM24
Case work coating	Alocrom pre-treatment, exterior grade polyester powder coat
Drive shaft	Electroless nickel plated carbon steel
Pumphead track	PPS (polyphenylene sulphide)
Guard	Polycarbonate
Guard seal	Neoprene
Rotor hub	Stainless steel 316
Roller arms, rotor cover	PPS (polyphenylene sulphide)
Rollers - main	Stainless steel 316
Rollers - guide	Nylatron
Main roller bearings	Stainless steel with PTFE seals
Drain port and nut	PP (polypropylene)
Drain plug	Hytrell

ORDER INFORMATION

0	5	•	9	1	•	•	•	•
Configuration			Model			Pumphead		
0: Pump 6: Drive only			3: S 4: U 5: Du 6: Bp			EL: 520REL EM: 520REM EH: 520REH 2L: 520R2 10: 520R 5L: 505L		
Ingress Protection						Plug options		
1: IP31 / NEMA 2 N: IP66 / NEMA 4X						U: UK mains plug E: EU mains plug A: American mains plug K: Australia mains plug R: Argentina mains plug C: Swiss mains plug D: India/South Africa mains plug B: Brazilian mains plug		

Element product codes		
	Industrial LoadSure® elements Quick-release PVDF connectors 3.2mm	Sanitary LoadSure® elements 3/4 in Sanitary PVDF connectors 3.2mm
Bioprene® TH		933.H032.PFT
Marpene® TH	902.H032.PFQ	
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, 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. LoadSure is a trademark of Watson-Marlow Limited. GORE and STA-PURE are trademarks of W. L. Gore & Associates. Tri-Clamp is a registered trademark of Ladish Company. Please state the product code when ordering pumps and tubing.

**WATSON
MARLOW
Pumps**

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