530 Drive with 520RET **Pumphead**



500 series cased pump

Features and benefits

- Color display and intuitive menu structures provide visual status indication and minimal key presses
- Flow rates from 0.0006 GPH (0.004 ml/min) to 55.48 GPH (3.5 L/min)
- 520R, 520R2, 520REL, 520REM, 520REH, 520RET and 505L pumpheads available as standard, others available on request
- 2,200:1 speed control range from 0.1 to 220 rpm in 0.1 rpm increments
- Keypad incorporates 3-level security PIN lock
- NEMA 2 (IP31) and NEMA 4X (IP66) cased pumps
- Dual voltage, 115 V/230 V 50/60 Hz
- Remote Analogue/Digital, RS232, RS485, PROFIBUS®, PROFINET®, SCADA and EtherNet/IP™ control options









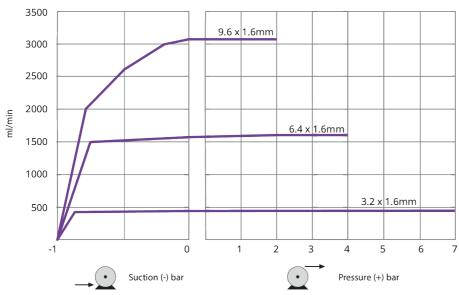




530 Drive with 520RET Pumphead performance

520RET twin-roller pumpheads	for Maxthane® LoadSu	re® elements tubing — flow rat	es — ml/min (USGPH)				
Tube material	Speed	3.2 mm	6.4 mm	9.6 mm			
Maxthane®	0.1-220 rpm	0.24-520 (0-8.24)	0.75-1600 (0.01-25.4)	1.3-2900 (0.02-46.0)			

Maxthane® LoadSure® Elements, Counter clockwise Rotation 200 rpm RET rotor



To achieve the discharge pressures stated above, the rotor must be run counter clockwise. To achieve optimal tube life, run the rotor clockwise at a maximum discharge pressure of 2 bar.

Technical specifications

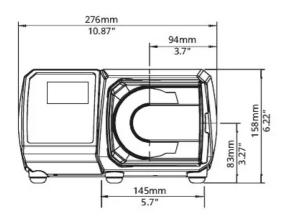
	530 Drive with 520RET Pumphead									
Pumphead number of rollers	2									
Pumphead number of channels	1									
Max. flow rate	2900 ml/min									
Min. flow rate	0.24 ml/min									
Max. flow rate	46 USGPH									
Min. flow rate	0 USGPH									
Drive speed control ratio	2200:1									
Drive speed	0.1 - 220 rpm									
Operating temperature range	5 to 40 °C									
Operating temperature range	40 to 104 °F									
Weight	10.5 - 11.4 kg									
Weight	23.2 - 25.1 lbs									
Drive weight	9.82, 10.7 kg									
Drive weight	21.6, 23.6 lbs									
NEMA module weight	0.9 kg									
NEMA module weight	1.9 lbs									
Control types	EtherNet/IP™, PROFIBUS®, PROFINET®, Remote Analogue/Digital, RS232, RS485, SCADA									
Drive control options	Bp, BpN, Du, DuN, En, EnN, Pn, PnN, S, SN, U, UN									
Drive standards	CE, cETLus, C-Tick, IRAM, NSF/ANSI 61 (for Marprene tubing and loadsure elements), RoHS									
Drive ingress protection	IP31, IP66, NEMA 2, NEMA 4X									
Drive humidity	(Non-condensing) 80% up to 31°C (88°F), decreasing linearly to 50% at 40C (104F)									
Drive noise	<70dBA at 1m									
Max. altitude	2000 m									
Drive power supply	115/230 V 1ph 50/60 Hz 135 VA									
Compatible tubing bore size	3.2, 6.4, 9.6 mm									

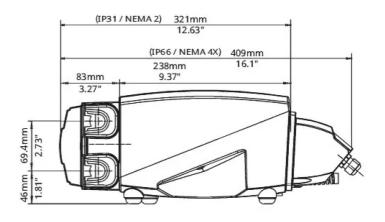
Materials of construction

	530 Drive with 520RET Pumphead
Bearings	Stainless steel
Driveshaft	Electroless nickel plated carbon steel
Drain port assembly	Hytrel, PP (polypropylene)
Drive casework	Pressure die-cast aluminum LM24
Drive casework coating	Alocrom pre-treatment, Exterior grade polyester powder coat
Guide roller assembly	MoS2 filled Nylon 6 (Nylatron)
Drive keypad/HMI	Polyester
Drive rear blanking plate	Stainless steel 304
Seals	Neoprene, PTFE
Switch-plate	Glass filled ABS plastic

Information listed covers the complete range.
For detailed specifications of individual models/components refer to user manual or contact WMFTS representative.

Dimensions





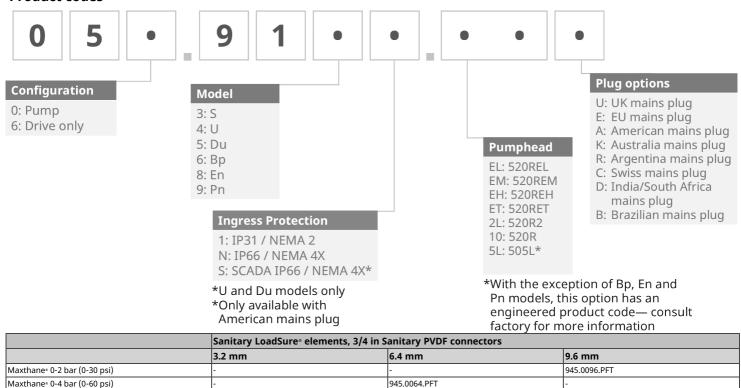
Control options	
	4/6

Key to p	oump drive	models	;																				
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Standard	Standard IP66 / NEMA 4X	Universa	Unive IP66 / 4X	, NIENAN [Digital Univers		tal versal I MA 4X	P66 /	us Pum Profibu	Profib	Profibus IP66 / S		versal NDA / IP66 MA 4X	Unive SCAD	Digital / Universal SCADA / IP66 / NEMA 4X		nerNet/IF	EtherNet/IP / IP66 / NEMA 4				9) [FINET® / / NEMA 4>
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	flowrate or s				✓	✓	√	_	✓	/ /			✓	✓			✓	_	/	√		/	✓
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Speed feedback														✓	✓	\perp			✓	✓		✓	√
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 $^{{\}tt *Range\ of\ 3rd\ party\ pressure/flow\ sensors\ supported-see\ compatible\ sensor\ list\ on\ www.wmftg.com/literature}$

^{**}Dispensing (Network/Manual) - Store up to 100 recipes locally or via network control. Features include volume, flow rate, anti-drip, ramp and time delays. Run these as batches using local, network or manual keypad control.

Product codes



Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. 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. It is the users responsibility to ensure product suitability for use within their application. Watson-Marlow, LoadSure, Pumpsil, PureWeld XL, Bioprene, Marprene are registered trademarks of Watson-Marlow Limited. Tri-Clamp is a registered trademark of Alfa Laval Corporate AB. GORE and STA-PURE are registered trademarks of W.L. Gore and Associates. Please state the product code when ordering pumps and tubing.

945.0032.PFT

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Maxthane® 0-7 bar (0-100 psi)



06 June 2024