

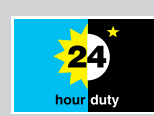
620SN, 620UN, and 620DuN IP66 pumps with 620R, 620RE and 620RE4 Mk II pumpheads

600^{series}

Watson-Marlow Pumps

FEATURES AND BENEFITS

- Flow from 0.001 L/min (0.0003 USGPM) to 19 L/min (5.02 USGPM)
- 4 bar (58 psi) pressure with LoadSure™ elements (STA-PURE, Bioprene™ or Marprene™)
- 2650:1 control ratio (0.1 to 265rpm speed range)
- MemoDose for accurate single-shot dispensing
- Maintenance-free brushless DC motor
- Smooth easy-to-clean enclosure free from bug traps
- Integrated pumphead guard switch
- Two head positions as standard (inlet/outlet ports on the right or facing downwards)
- Retractable pumphead rollers for CIP, SIP and easy tube loading



Watson-Marlow...Innovation in Full Flow

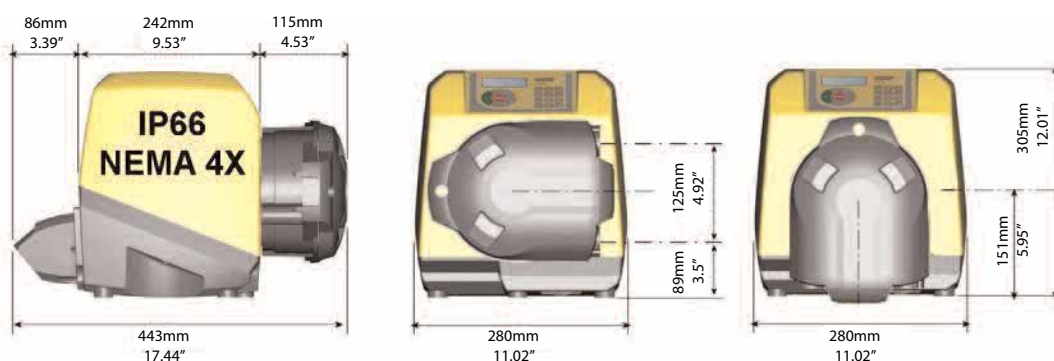
TECHNICAL DATA

Functionality	620SN	620UN	620DuN
Enclosure - ingress protection rating	IP66	IP66	IP66
Manual control			
Digital speed control with simple calibration to display flow	•	•	•
Choice of flow rate display; metric or imperial units			•
Numeric keypad for entry of speed, flow or PIN code			•
Remote control			
Run/stop, direction change, auto/manual mode, leak detector input (via contact closure or 5V TTL to 24V industrial logic)		•	•
Remote operation of MemoDose (foot/handswitch or logic input)		•	•
Four programmable digital status outputs through 24V, 30W relays		•	•
Analogue speed control			
Software programmable inputs; 0-10V, 1-5V or 4-20mA		•	•
Analogue outputs; 0-10V		•	
Analogue outputs; 0-10V, 4-20mA			•
Keypad/analogue input scaling (replacement of diaphragm pumps)			•
Tachometer output; 0-1478Hz		•	•
Digital communication			
Digital network serial control			RS485
Security			
Basic security code to protect set-up		•	
Dual operator/supervisor PIN code protection of pump settings			•

PERFORMANCE

Flow ranges (L/min)	Continuous tubing				LoadSure™ element tubing			
(over 0.1 to 265rpm speed range)	620R (2 rollers)				620RE (2 rollers)		620RE4 (4 rollers)	
Tubing material	6.4mm	9.6mm	12.7mm	15.9mm	12mm	17mm	12mm	17mm
Marprene TM, Bioprene TM					0.004-9.8	0.01-16	0.003-8.3	0.004-11
Marprene TL, Bioprene TL	0.001-3.4	0.003-6.6	0.004-11	0.01-12	0.004-9.8	0.01-18	0.003-8.3	0.005-12
Pumpsil silicone	0.001-3.2	0.003-7.2	0.004-11	0.01-15	0.004-10	0.01-16	0.003-8.7	0.004-11
STA-PURE PFL, Neoprene	0.001-3.2	0.003-6.6	0.004-11	0.01-16	0.004-11	0.01-19	0.003-9.0	0.010-13

DIMENSIONS



TECHNICAL SPECIFICATION

	620SN, 620UN and 620DuN
Ingress rating	IP66 / NEMA 4X
Enclosure	Watertight, dustproof
Suitability	Corrosion resistant for heavy industrial environments
Humidity	(Condensing) 10-100% RH
Temperature	5C to 40C (40F to 104F)
Pump weight	20.5kg (45lb 3oz) with 620R, 620RE 21.0kg (46lb 5oz) with 620RE4
Control ratio	2650:1
Torque rating	6Nm, continuous duty
Noise	< 70dB(A) at 1m
Standards	CE, cETLus
Power supply	100-120V/200-240V, 1ph, 50/60Hz

MATERIALS OF CONSTRUCTION

Component	Material
Keypad	Polyester
Switch-plate	ABS PA-765
Rear blanking plate	Stainless steel 316
Drive casework	Pressure die-cast aluminium (top - LM6, base - LM24)
Case work and guard coating	Exterior grade polyester powder coat
Drive shaft	Stainless steel 440C
Pumphead track	Powder coated aluminium LM24
Guard	Pressure die-cast aluminium LM24
Rotor hub, roller arms	Fortron 1140L4 (PPS)
Rotor cover	Dupont Hytrel G5544
Rollers - main/guide	Stainless steel 303/Nylatron
Main roller bearings	Carbon steel
Tube clamp sets	Polypropylene

ORDER INFORMATION

Product codes			
	620R MkII head	620RE MkII head	620RE4 MkII head
Pumphead only	063.4211.000	063.4231.000	063.4431.000
620U	060.4141.020*	060.4141.E20*	060.4141.E40*
620Du	060.4151.020*	060.4151.E20*	060.4151.E40*
IP66/NEMA 4X wash-down pumps			
620SN	060.413N.020**	060.413N.E20**	060.413N.E40**
620UN	060.414N.020**	060.414N.E20**	060.414N.E40**
620DuN	060.415N.020**	060.415N.E20**	060.415N.E40**

** Replace 0 (plug less) with A for 2.8m American mains lead

	Continuous tubing				Sanitary LoadSure™ elements		Industrial LoadSure™ elements	
	(for 620R pumphead)				(3/4" Tri-clamp PVDF connectors)		(3/4" Cam and groove PP connectors)	
	6.4mm	9.6mm	12.7mm	15.9mm	12mm	17mm	12mm	17mm
STA-PURE PFL	965.0064.032	965.0096.032	965.0127.032	965.0159.032	965.0120.PFT*	965.0170.PFT*		
STA-PURE PCS	960.0064.032	960.0096.032	960.0127.032	960.0159.032	960.0120.SST**	960.0170.SST**		
Bioprene TM					933.P120.PFT*	933.P170.PFT*		
Bioprene TL	933.0064.032	933.0096.032	933.0127.032	933.0159.032	933.0120.PFT	933.0170.PFT		
Marprene TM							902.P120.PPC	902.P170.PPC
Marprene TL	902.0064.032	902.0096.032	902.0127.032	902.0159.032			902.0120.PPC	902.0170.PPC
Pumpsil silicone	913.A064.032	913.A096.032	913.A127.032	913.A159.032	913.A120.PFT	913.A170.PFT	913.A120.PPC	913.A170.PPC
Neoprene	920.0064.032	920.0096.032	920.0127.032	920.0159.032			920.0120.PPC	920.0170.PPC
PVC	950.0064.032	950.0096.032	950.0127.032	950.0159.032				
Fluorel	970.0064.032	970.0096.032	970.0127.032	970.0159.032				

*4 bar pressure capability with STA-PURE, Bioprene™ and Marprene™

**SST = sanitary stainless steel connectors

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
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Pumps**

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