621F with 620RE4 pumphead

WATSON MARLOW Pumps

600 series close-coupled pumps

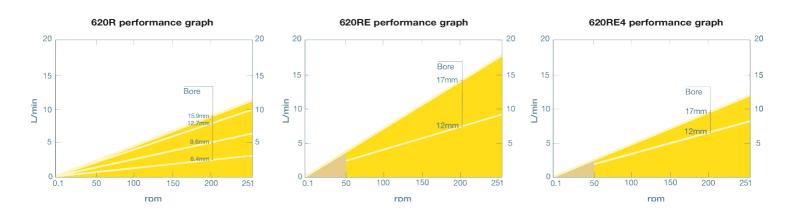
Features and benefits

- Simplex flow rates up to 13 L/min
- Discharge pressures up to 4 bar with element style pumpheads
- 620RE two roller or 620RE4 four roller pumphead with CIP/SIP rotor and rapid snapfit tube loading, pumphead accepts both 12 mm and 17 mm industrial and sanitary LoadSure elements
- Compact design with foot mounted gearbox
- 24-hour continuous duty with a two-year warranty
- Reversible operation
- Fixed Speed options: 230/460 VAC, 50/60 Hz 3-phase or 120/240 VAC, 50/60 Hz, 1-phase. Variable speed options supplied with 230/3/60, 460/3/60, 120/1/60 or 220/1/60 Variable frequency drive



621F with 620RE4 pumphead performance

Tube bore and flow rates (L/min)					Elements				
	Fixed	620R continuous tubing			620RE LoadSure		620RE4 LoadSure		
Material	rpm	6.4mm	9.6mm	12.7mm	15.9mm	12.0mm	17.0mm	12.0mm	17.0mm
Marprene, Bioprene TM	77/250					2.9/9.3	4.5/14.8	2.4/7.9	3.2/10.3
Marprene, Bioprene TL	77/250	1.0/3.3	1.9/6.3	3.1/10	4.2/11	2.9/9.3	4.7/16.9	2.4/7.9	3.6/11.8
Pumpsil Platinum Silicone Neoprene, STA-PURE PCS	77/250	0.92/3.0	2.1/6.8	3.2/11	4.7-14	3.0/9.7	4.7/15	2.5/8.3	3.3/11
STA-PURE PFL	77/250	0.92/3.0	1.9/6.3	3.1/10	4.7-15	3.1/10.0	5.6/18	2.6/8.5	3.9/13



Technical specifications

	621F with 620RE4 pumphead
Max. flow rate	13 L/min
Min. flow rate	0.92 L/min
Max. flow rate	3.43 USGPM
Min. flow rate	0.24 USGPM
Max. operating pressure	4 bar
Max. operating pressure	60 psi
Ambient Temperature Range	5 to 40 °C
Ambient Temperature Range	41 to 104 °F
Motor types	Fixed speed motor
Max. operating speed	250 rpm
Standards	CE
Ingress rating	IP55
Noise	75dB(A) at 1m
Weight	18.5 kg
Weight	40.43 lbs
Power supply	230/400 V 3 ph, 50 Hz

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.

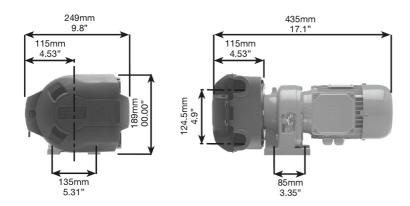
Materials of construction

	621F with 620RE4 pumphead
Gearbox	Cast iron
Motor	Cast aluminium alloy
Pumphead guard	Powder coated aluminium LM24
Pumphead roller assembly	Fortron 1140L0 (PPS), MoS2 filled Nylon 6 (Nylatron), Stainless steel 303S31
Pumphead rotor assembly	Fortron 1140L0 (PPS)
Pumphead track	Powder coated aluminium LM24
Seals	Neoprene
Tube clamp assembly	PP (polypropylene)

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 WMFTS representative.

621F with 620RE4 pumphead dimensions



Product codes

Pump		rpm	Supply	Product code	
	C21E/DE4	77	230/400V 50Hz 3ph 0.37kW	060.8122.E40 - *10:1	
621F/RE4	621F/RE4	250	230/400V 50Hz 3ph 0.37kW	060.8152.E40 - *5:1	

^{*10:1} or 5:1 speed reduction available using VFD

*ATEX pumps 10:1 speed reduction available using VFD from geared units fitted with PTC thermistors For alternative speeds and motor options contact Watson-Marlow Applications Engineering Department.

Pumphead	Description	Description				
620RE4	Four roller LoadS	oadSure element pumphead for maximum 4 bar peak pressure				
Tubing					·	
Bore/wall (mm)		Bioprene	Marprene	Platinum Silicone	PureWeld XL	
6.4x3.2		933.0064.032	902.0064.032	913.A064.032		
9.6x3.2		933.0096.032	902.0096.032	913.A096.032	942.0096.032	
12.7x3.2		933.0127.032	902.0127.032	913.A127.032	942.0127.032	
15.9x3.2		933.0159.032	902.0159.032	913.A159.032		
Bore/wall (mm)		STA-PURE	STA-PURE PFL			
6.4x3.2		961.0064.032	966.0064.032			
9.6x3.2		961.0096.032	966.0096.032			
12.7x3.2		961.0127.032	966.0127.032			
15.9x3.2	•	961.0159.032	966.0159.032			
oadsura Elama	ntc	•				

Loadsure Elements						
Material	12mm Tri-Clamp 3/4" PVDF connectors	17mm Tri-Clamp 3/4" PVDF connectors	12mm C&G with PP 3/4" connectors	12mm C&G with PP 3/4" connectors		
Bioprene TL 0-2 bar (peak)	933.0120.PFT	933.0170.PFT				
Bioprene TM 0-4 bar (peak)	933.M120.PFT	933.M170.PFT				
STA-PURE PCS 0-4 bar (peak)	961.0120.PFT	961.0170.PFT				
Pumpsil (0-2 bar peak)	913.A120.PFT	913.A170.PFT				
Marprene TL 0-2 bar (peak)			902.0120.PPC	902.0170.PPC		
Marprene TM 0-4 bar (peak)			902.P120.PPC	902.P170.PPC		
Pumpsil 0-2 bar (peak)			913.A120.PPC	913.A170.PPC		

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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