621F with 620R pumphead

600 series close-coupled pumps

Features and benefits

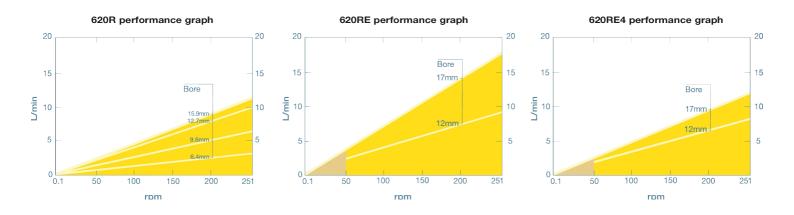
- Simplex flow rates up to 15 L/min
- Discharge pressures up to 2 bar with continuous tubing
- 620R two roller pumphead with CIP/SIP rotor
- Compact design with foot mounted gearbox
- 24-hour continuous duty with a two-year warranty
- Reversible operation

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 620R pumphead performance



Tube bore and flow rates (L/min)						Elements	ements			
	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 620R pumphead
Max. flow rate	15 L/min
Min. flow rate	0.92 L/min
Max. flow rate	3.96 usgpm
Min. flow rate	0.24 usgpm
Max. operating pressure	2 bar
Max. operating pressure	30 psi
Ambient Temperature Range	5 to 40
Ambient Temperature Range	41 to 104
Motor types	Fixed speed motor
Max. operating speed	246 rpm
Standards	CE
Ingress rating	IP55
Noise	75dB(A) at 1m
Weight	18.5 kg
Weight	40.43 lbs
Power supply	230/400V 3ph, 50Hz

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.

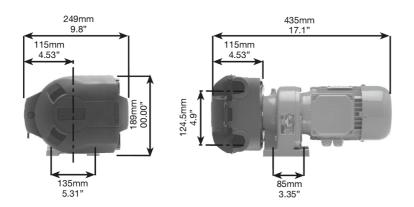
Materials of construction

	621F with 620R pumphead			
Gearbox	Cast iron			
Motor	Cast aluminum alloy			
Pumphead guard	Powder coated aluminum 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 aluminum LM24			
Seals	Neoprene			
Tube clamp assembly	PP (polypropylene)			
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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 620R pumphead dimensions



Product codes

Pump	rpm	Supply	Product code
621F/R	77	230/400V 50Hz 3ph 0.37kW	060.8122.020 - *10:1
621F/R	250	230/400V 50Hz 3ph 0.37kW	060.8152.020 - *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						Product code	
620R	Two roller continu	Two roller continuous tubing pumphead for maximum 2 bar peak pressure					064.0211.000		
Tubing									
Bore/wall (mm) Bioprene			Marprene Plat		tinum Silicone		PureWeld XL		
6.4x3.2 933.0064.032			902.0064.032 913.A		.A064.032				
9.6x3.2		933.0096.032		902.0096.032	913.A096.032		94	941.0096.032	
12.7x3.2		933.0127.032		902.0127.032	913.A127.032		94	941.0127.032	
15.9x3.2		933.0159.032		902.0159.032	913.A159.032				
Bore/wall (mm)		Neoprene		STA-PURE	STA-	PURE PFL			
6.4x3.2		920.0064.032		960.0064.032	965.0	064.032			
9.6x3.2		920.0096.032		960.0096.032	965.0	096.032			
12.7x3.2	920.0127.032			960.0127.032	965.0127.032				
15.9x3.2	5.9x3.2 920.0159.032			960.0159.032 965.0159.032		159.032			
Loadsure Elements	;								
Matavial	12mm Tri-Cla	12mm Tri-Clamp 3/4" PVDF 17		mm Tri-Clamp 3/4" PVDF		12mm C&G with PP 3/4"	12m	mm C&G with PP 3/4"	
Material	connectors		conr	nectors		connectors	conr	nectors	
Bioprene TL 0-2 bar (peak)	933.0120.PFT		933.0	170.PFT					
Bioprene TM 0-4 bar peak)	933.M120.PFT	933.M120.PFT 93		933.M170.PFT					
STA-PURE PCS 0-4 bar peak)	960.0120.PFT		960.0	170.PFT					
Pumpsil (0-2 bar peak)	913.A120.PFT		913.A	170.PFT					
Marprene TL 0-2 bar (peak)						902.0120.PPC	902.0	170.PPC	
Marprene TM 0-4 bar peak)						902.P120.PPC	902.P	170.PPC	
Pumpsil 0-2 bar (peak)						913.A120.PPC	913.A	170.PPC	
Neoprene 0-2 bar (peak	()					920.0120.PPC	920.0	170.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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14 August 2023