

# 621F/R, 621F/RE, 621F/RE4 fixed speed pumps

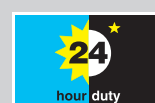
# 600series

Watson-Marlow Pumps

## FEATURES AND BENEFITS

- Flow rates from 0.92 L/m to 18 L/m, pressures up to 2bar (30psi), or 4bar (60psi) with STA-PURE or TM Marprene/Bioprene
- Rugged IP55 fixed speed AC motor for industrial environments
- All pumpheads have tool unlocking with safety interlock option\*
- 620R twin-roller CIP/SIP pumphead offers rapid tube loading with four tube bore sizes
- 620RE twin-roller CIP/SIP pumphead accepts rapid snap-fit 12mm or 17mm Loadsure™ elements
- 620RE4 four-roller low pulsation CIP/SIP pumphead accepts rapid snap-fit 12mm or 17mm Loadsure™ elements
- Two years comprehensive warranty

\*Contact Watson-Marlow applications department

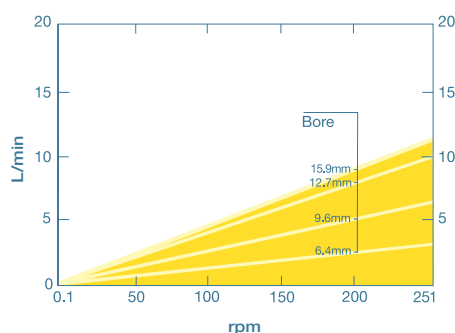


Watson-Marlow...Innovation in Full Flow

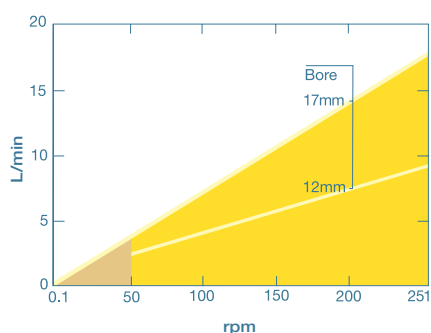
## PERFORMANCE

Tube bore and flow rates (L/min)						Elements			
Material	Fixed	620R continuous tubing				620RE LoadSure		620RE4 LoadSure	
	rpm	6.4mm	9.6mm	12.7mm	15.9mm	12.0mm	17.0mm	12.0mm	17.0mm
Marprene, Bioprene TM	77/251					2.9/9.3	4.5/14.8	2.4/7.9	3.2/10.3
Marprene, Bioprene TL	77/251	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	77/251	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	77/251	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

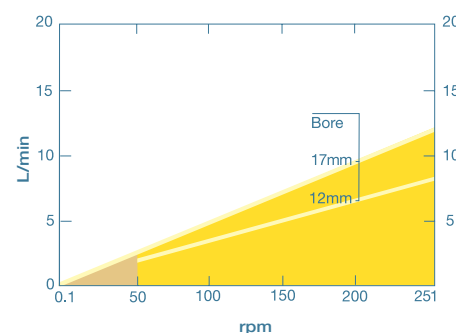
620R performance graph



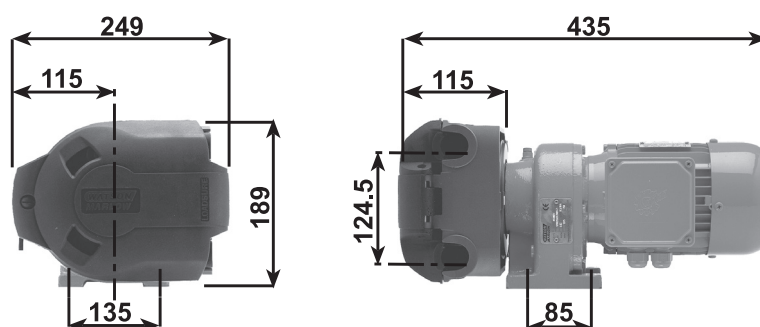
620RE performance graph



620RE4 performance graph



## DIMENSIONS



All dimensions in mm

## TECHNICAL SPECIFICATION

	621F/R, 621F/RE, 621F/RE4
Weight	18.5kg
Ingress protection	IP55
Operational temperature range	5C to 40C
Noise	75dBA at 1m
Standards	CE
Supply	230/400V 50Hz 3 phase

## MATERIALS OF CONSTRUCTION

Component	Material
Motor	Cast aluminium alloy
Gearbox	Cast iron
Track	Aluminium alloy - powder coated
Rotor hub, roller arms	Fortron 1140L4 (PPS)
Link arm	Polyphenylene Sulphide (PPS)
Tube clamps	Polypropylene
Main roller assembly and springs	Stainless steel 303S31
Roller spindles, pins, thrust washer	Stainless steel 303S31
Follower rollers	MOS2 filled Nylon
Guard	Powder coated aluminium LM24
Guard seal	Closed-cell Neoprene

## ORDER INFORMATION

Product codes			
Pump	rpm	Supply	Product code
621F/R	77	230/400V 50Hz 3ph 0.37kW	060.8122.020 - *10:1
	251	230/400V 50Hz 3ph 0.37kW	060.8152.020 - *5:1
621F/RE	77	230/400V 50Hz 3ph 0.37kW	060.8122.E20 - *10:1
	251	230/400V 50Hz 3ph 0.37kW	060.8152.E20 - *5:1
621F/RE4	77	230/400V 50Hz 3ph 0.37kW	060.8122.E40 - *10:1
	251	230/400V 50Hz 3ph 0.37kW	060.8152.E40 - *5:1

\*10:1 or 5:1 speed reduction available using VFD. For alternative speeds and motor options contact Watson-Marlow Applications Engineering Department.

Pumphead ordering codes		
Pumphead	Description	Product code
620R	Two roller continuous tubing pumphead for maximum 2bar peak pressure	064.0211.000
620RE	Two roller LoadSure element pumphead for maximum 4bar peak pressure	064.0231.000
620RE4	Four roller LoadSure element pumphead for maximum 4bar peak pressure	064.0431.000

Tubing 3.2mm wall tubing ordering codes				
Bore/wall (mm)	Bioprene	Marprene	Platinum Silicone	PureWeld XL
6.4x3.2	933.0064.032	903.0064.032	913.A064.032	
9.6x3.2	933.0096.032	903.0096.032	913.A096.032	941.0096.032
12.7x3.2	933.0127.032	903.0127.032	913.A127.032	941.0127.032
15.9x3.2	933.0159.032	903.0159.032	913.A159.032	
Bore/wall (mm)	Neoprene	STA-PURE	STA-PURE PFL	
6.4x3.2	920.0064.032	960.0064.032	965.0064.032	
9.6x3.2	920.0096.032	960.0096.032	965.0096.032	
12.7x3.2	920.0127.032	960.0127.032	965.0127.032	
15.9x3.2	920.0159.032	960.0159.032	965.0159.032	

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)	960.0120.PFT	960.0170.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.M120.PPC	902.M170.PPC
Pumpsil 0-2 bar (peak)			913.A120.PPC	913.A170.PPC
Neoprene 0-2 bar (peak)			920.0120.PPC	920.0170.PPC

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.



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