# 620Di and 620DiN with 620RE pumphead



620 series dispensing pumps

### **Features and benefits**

- Keypad entry of flow from 0.00026 GPM (0.001 L/min) to 4.76 GPM (18 L/min)
- Dispenses 16.91 fl oz (500 ml) to within ±0.5 %
- Stores up to 50 dispensing programs
- Up to 60 psi (4 bar) pressure
- 2650:1 control ratio (0.1 to 265 rpm speed range)
- Digital speed adjustment with choice of 0.1 rpm, 0.5 rpm, 1 rpm, 2 rpm, 5 rpm and 10 rpm step changes
- Maintenance-free brushless DC motor
- Smooth easy-to-clean enclosure free from bug traps



## 620Di and 620DiN with 620RE pumphead performance

Flow ranges (L/min)	LoadS	LoadSure™ element tubing				
(over 0.1 to 265rpm speed range)	620RE	620RE (2 rollers)				
Tubing material	12mm	1	17mm			
Marprene TM, Bioprene TM	0.004-9	.8	0.01-16			
Marprene TL, Bioprene TL	0.004-9	1.8	0.01-18			
Pumpsil silicone	0.004-1	0	0.01-16			
STA-PURE, Neoprene	0.004-1	1	0.01-18			
620RE dose sizes						
Tube bore		12mm	17mm			
Minimum possible dose		19ml	30ml			
Minimum recommended		189ml	302ml			

### **Technical specifications**

	620Di and 620DiN with 620RE pumphead
Filling volume range	Up to 500ml in 3.0s ml
Accuracy	±0.5 %
Ingress Protection	IP31, IP66, NEMA 2, NEMA 4X
Operating temperature range	5 to 40 °C
Operating temperature range	40 to 104 °F
Speed control ratio	2650:1
Humidity	(Condensing) 10 to 100% RH, (Non-condensing) 80% up to 31°C (88°F), decreasing linearly to 50% at 40C (104F)
Noise	<70dB(A) at 1m
Standards	CE, cETLus
Power supply	100 to 120 V, 200 to 240 V, 50/60 Hz, Single-phase
Weight	19.6 - 20.5 kg
Weight	43.2 - 45.2 lbs
Accessories	Footswitch, handswitch, RS232 cable, batch records cable
Compatible tubing size	12.0 mm ID, 12.7 mm ID, 15.9 mm ID, 17.0 mm ID, 6.4 mm ID, 9.6 mm ID

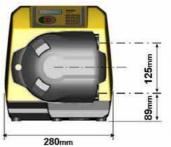
## **Materials of construction**

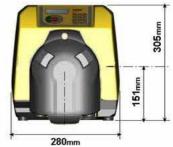
	620Di and 620DiN with 620RE pumphead	
Bearings	Carbon steel	
Casework	Pressure die-cast aluminum LM24, Pressure die-cast aluminum LM6	
Keypad/HMI	Polyester	
Pumphead roller assembly	Nylatron, Stainless steel	

# 620Di and 620DiN with 620RE pumphead dimensions









# **Control options**

Functionality	620Di	620DiN			
Enclosure - ingress protection rating					
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 dosing (foot/handswitch or logic input)					
Four programmable digital status outputs through 5V TTL to 24V industrial logic					
Analogue speed feedback					
Tachometer output; 0-1478Hz					
Digital communication					
Digital network serial control RS232 RS485					
Specialist dispensing functionality					
Drip control feature (momentary direction reverse at end of dose)					
Ramp control to improve accuracy and avoid splashing or frothing					
Export of batch records to PC or printer for cGMP requirements RS232					
Dual operator/supervisor PIN code protection of pump settings					

## **Product codes**

Pumpheads		Accessories						
620RE MkII head		Footswitch	Handswitch	RS232 cable	Batch records cable			
Pumphead only			nanuswitch	K3232 Cable	Battii retorus cable			
IP31/NEMA 2 wipe-down pumps		IP31	IP31	IP31	IP31			
620Di	Di 060.4171.E20*		059.3022.000	059.3121.000	059.3125.000			
*Replace 0 (plug-less) with A, E or U for 2.8m American, European or UK mains plug								
IP66/NEMA 4X wash-down pu	ımps	IP55						
620DiN	060.417N.E20**	069.5231.000	n/a	n/a	_			

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

Tubing								
	Continuous tubing for 620R				Sanitary LoadSure™ elements (3/4″ Tri-clamp PVDF connectors)		Industrial LoadSure™ elements (3/4" Cam & Groove PP connectors)	
	6.4mm	9.6mm	12.7mm	15.9mm	12mm	17mm	12mm	17mm
STA-PURE	960.0064.032	960.0096.032	960.0127.032	960.0159.032	960.0120.PFT	960.0170.PFT	_	_
CHEM-SURE	965.0064.032	965.0096.032	965.0127.032	965.0159.032	965.0120.SST*	965.0170.SST*	_	_
Bioprene TM	_	_	_	_	903.P120.PFT	903.P170.PFT	_	_
Bioprene TL	903.0064.032	903.0096.032	903.0127.032	903.0159.032	903.0120.PFT	903.0170.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	_	_	_	_
NB: 4 bar pres	NB: 4 bar pressure capability with Sta-Pure, Bioprene TM and Marprene TM						*SST = sanitary stainless steel connectors	

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