

620Di and 620DiN with 620R 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 $\pm 0.5\%$
- 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 620R pumphead performance

Flow ranges (L/min)		Continuous tubing			
(over 0.1 to 265rpm speed range)		620R (2 rollers)			
Tubing material		6.4mm	9.6mm	12.7mm	15.9mm
Marprene TL, Bioprene TL		0.001-3.4	0.003-6.6	0.004-11	0.01-12
Pumpsil silicone		0.001-3.2	0.003-7.2	0.004-11	0.01-15
STA-PURE, Neoprene		0.001-3.2	0.003-6.6	0.004-11	0.01-16
Dose sizes					
Tube bore	6.4mm (1/4")	9.6mm (3/8")	12.7mm (1/2")	15.9mm (5/8")	
Minimum possible dose	6ml	14ml	21ml	28ml	
Minimum recommended	60ml	136ml	208ml	283ml	

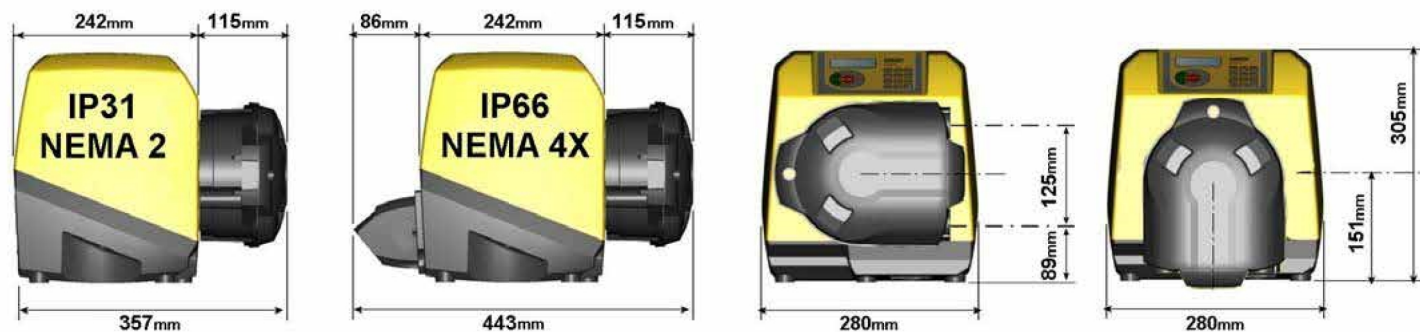
Technical specifications

	620Di and 620DiN with 620R pumphead
Filling volume range	Up to 500ml in 3.0s ml
Accuracy	$\pm 0.5\%$
Ingress Protection	IP31, IP66, NEMA 2, NEMA 4X
Operating temperature	40 °F to 104 °F (5 °C to 40 °C)
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	43.2 - 45.2 lbs (19.6 - 20.5 kg)
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 620R 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 620R pumphead dimensions



Control options

Functionality	620Di	620DiN
Enclosure - ingress protection rating	IP31	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 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	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	RS232	
Dual operator/supervisor PIN code protection of pump settings	✓	✓

Product codes

Pumpheads		Accessories			
620R MkII head		Footswitch	Handswitch	RS232 cable	Batch records cable
Pumphead only	063.4211.000				
IP31/NEMA 2 wipe-down pumps		IP31	IP31	IP31	IP31
620Di/R	060.4171.020*	059.3002.000	059.3022.000	059.3121.000	059.3125.000
* Replace last zero with A, E, U, K, R, D, Z or C for 2.8m American, European, United Kingdom, Australian, Argentinian, South African, Chinese or Swiss mains plug					
IP66/NEMA 4X wash-down pumps		IP55			
620DiN/R	060.417N.020**	069.5231.000	n/a	n/a	—
** Replace last zero with A, C, K, R or Z plug type					
Tubing					
Continuous tubing					
	6.4mm	9.6mm	12.7mm	15.9mm	
STA-PURE PCS	961.0064.032	961.0096.032	961.0127.032	961.0159.032	
Bioprene TL	933.0064.032	933.0096.032	933.0127.032	933.0159.032	
Marpene TL	902.0064.032	902.0096.032	902.0127.032	902.0159.032	
Pumpsil silicone	913.A064.032	913.A096.032	913.A127.032	913.A159.032	
NB: 4 bar pressure capability with Sta-Pure PCS					

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