

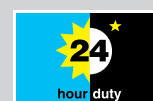
# Qdos 30 Universal and Universal+ pumps with 110V Logic

**qdos30**  
Peristaltic Metering

Watson-Marlow Pumps

## FEATURES AND BENEFITS

- Flow rates 0.1 ml/min (0.001 USGPH) to 500 ml/min (7.93 USGPH) at 7 bar (100psi) RMS pressure
- ReNu pumphead provides accurate, linear and repeatable flow
- Fluid recovery ensures operator safety and avoids chemical waste
- Flow control 5000:1 with  $\pm 1\%$  accuracy
- Manual, analogue and 110V digital input functionality
- 3.5" (88.9mm) colour TFT display providing pump feedback through colour, icons, graphics and text
- No valves or ancillary equipment required



*Watson-Marlow... Innovation in Full Flow*

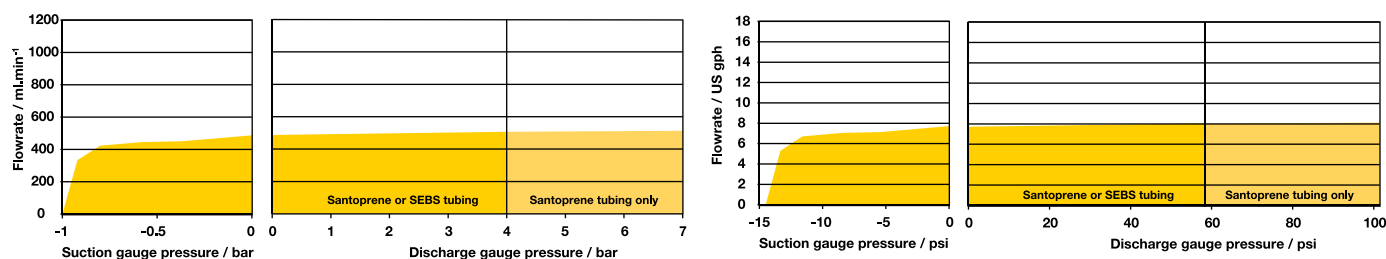
## PERFORMANCE

### Qdos 30 pump typical flow rates

	Speed (rpm)	Flow (ml/min)*
ReNu Pumphead	0.025-125	0.1-500
	Speed (rpm)	Flow (USGPH)*
ReNu Pumphead	0.016-125	0.001-7.93

\*accuracy  $\pm 1\%$ , repeatability  $\pm 0.5\%$

### Flow rate with discharge pressure for ReNu pumpheads at different drive speeds



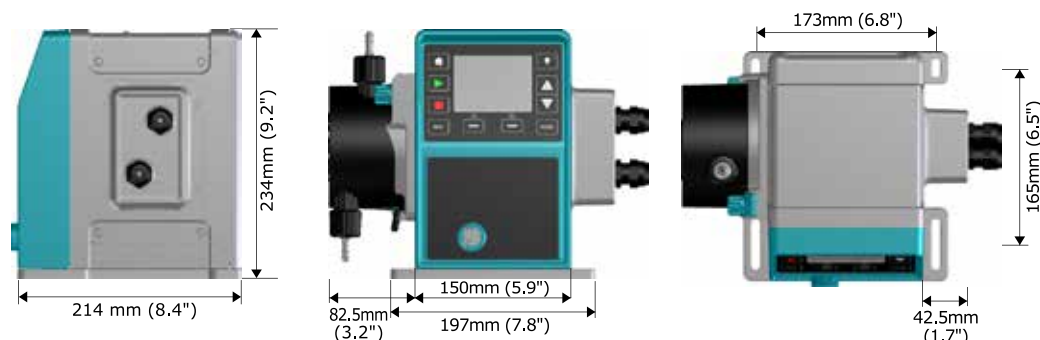
## TECHNICAL DATA

Functionality	Qdos 30 Universal 110V logic	Qdos 30 Universal+ 110V logic
<b>Operational modes</b>		
Manual	•	•
4-20mA	•	•
Fluid recovery	•	•
Fault reporting	•	•
<b>Manual control</b>		
Flow rate range 0.1 to 500 ml/min (5000:1)	•	•
Numerical flow display	•	•
Numerical speed display	•	•
Numerical percentage of max speed display	•	•
Fluid level monitor	•	•
Max (prime)	•	•
Auto restart	•	•
Fluid recovery and leak detection	•	•

## TECHNICAL DATA

Functionality (Continued)	Qdos 30 Universal 110V logic	Qdos 30 Universal+ 110V logic
<b>Remote control</b>		
4-20mA input	•	•
4-20mA output		•
Run stop input	•	•
Run status output	•	•
Alarm output	•	•
<b>Security</b>		
Keypad lock	•	•
PIN lock to protect set up	•	•

## DIMENSIONS



## TECHNICAL SPECIFICATION

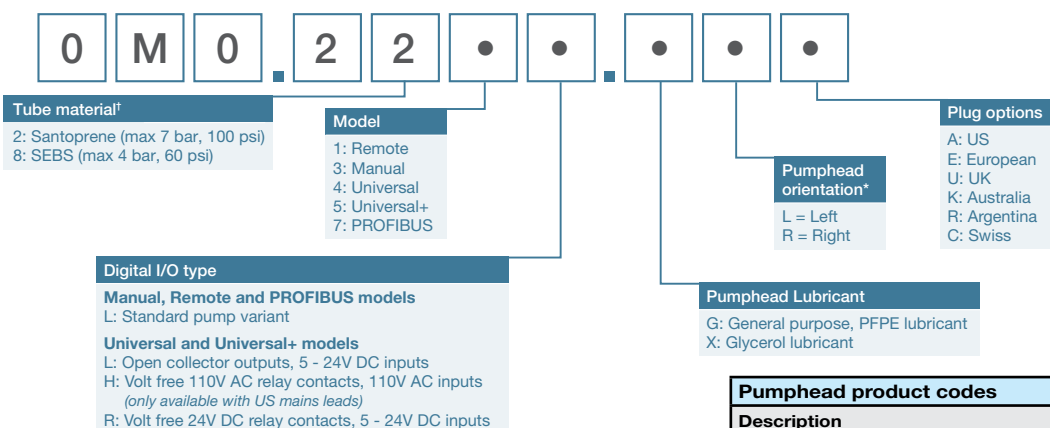
	Qdos 30 Manual
Ingress rating	IP66
Enclosure	Watertight / dustproof
Humidity	Non-condensing 5% to 95%
Temperature	5C to 45C (41F to 113F) Santoprene 5C to 40C (41F to 104F) SEBS
Pump weight	Drive: 4.1kg (9lb 6oz) Pumphead: 0.95kg (2lb 15oz)
Control ratio	5000:1
Noise	< 70dB(A) at 1m
Standard	CE, NSF 61, cETLus
Power supply	Switch mode power supply ~100-240V 50-60Hz 190VA

## MATERIALS OF CONSTRUCTION

Component	Material
Keypad	Polyester
Drive casework	20% Glass filled PPE/ PS
Drive shaft	Stainless steel 440C
Pumphead enclosure	40% Glass filled PPS
Rotor	Glass filled nylon
Rotor bearings	Steel
Tube†	Santoprene (max 7 bar, 100 psi) SEBS (max 4 bar, 60 psi)
Hydraulic connectors	Polypropylene
Lubricant*	PFPE based (standard lubricant) Glycerol based (optional lubricant)

\*The ReNu Pumphead contains lubricant. It is the user's responsibility to comply with local health and safety regulations, including ensuring chemical compatibility between the lubricant and the duty fluid before use. The standard lubricant is PFPE. A glycerol/glycol blend lubricant is also available as an option.

## ORDER INFORMATION



† For guidance on chemical compatibility see [www.qdospumps.com](http://www.qdospumps.com)

\* The pumphead side location is required when ordering. The left/right perspective assumes the user is looking at the front of the pump. The pump in the dimensions diagram is considered a pumphead located to the left.

Pumphead product codes	
Description	Partcode
ReNu pumphead 7 bar (100 psi) PFPE lubricant	0M3.2200.PFP
ReNu pumphead 7 bar (100 psi) glycerol based lubricant	0M3.2200.GLY
ReNu pumphead 4 bar (60psi) PFPE lubricant	0M3.2800.PFP

All flow rates shown were obtained pumping water at 20C (68F) with zero suction and delivery heads.  
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