

Quantum 600

Quantum bioprocessing pump

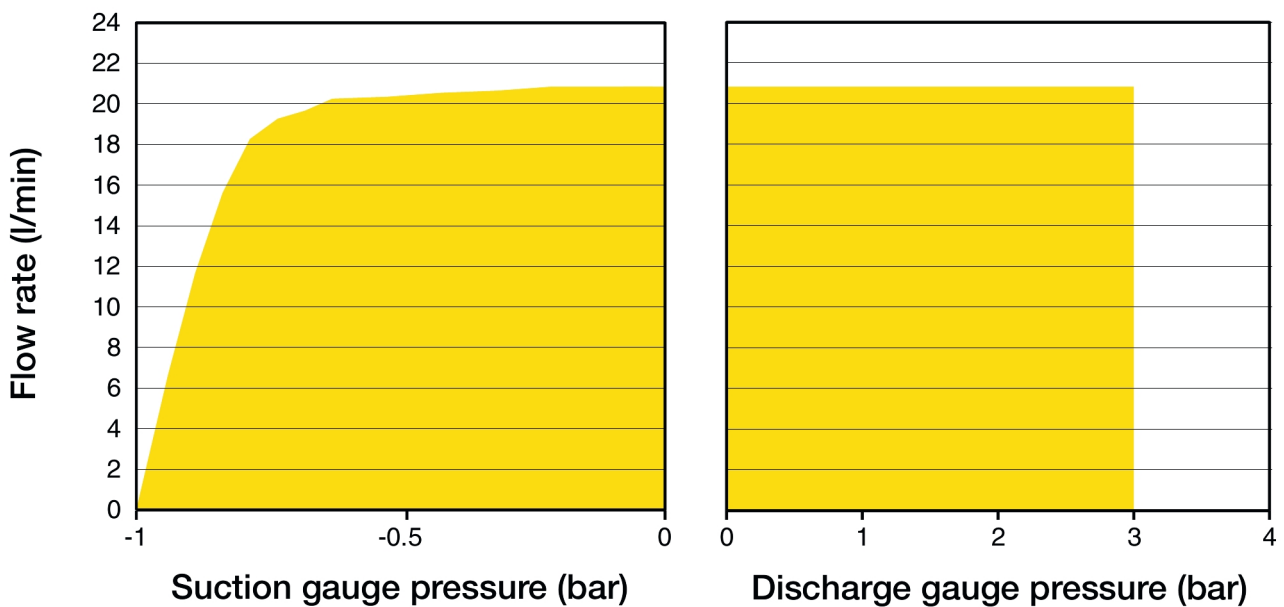
**WATSON
MARLOW**
Pumps

Features and benefits

- Flow rates from 5.33 ml/min to 20 L/min
- 4,000:1 speed control range from 0.1 to 400 rpm in 0.1 rpm increments
- Patented ReNu SU cartridge technology
- Colour display and intuitive menu structures provide visual status indication and minimal key presses
- Keypad incorporates 3-level security PIN protection
- Paint free IP66/NEMA 12/13 pump housing
- Dual voltage, 115 V/230 V 50/60 Hz



Quantum 600 performance



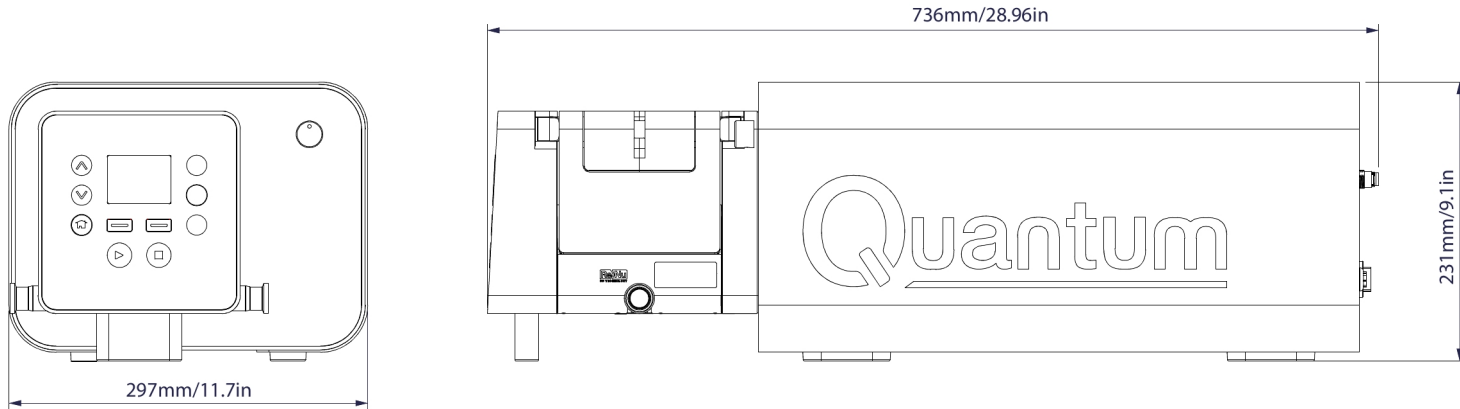
Technical specifications

	Quantum 600
Max. operating pressure	3 bar (43.5 psi)
Speed control ratio	4000:1
Operating speed	0.1 rpm to 400 rpm
Operating temperature	5 °C to 30 °C (41 °F to 86 °F)
Fluid temperature	5 °C to 37 °C (41 °F to 98 °F)
Weight	38 kg (83.8 lbs)
Inlet/outlet Connections	3 x M12 chassis male 8-way, M12 chassis female 8-way
Control types	Remote Analogue/Digital
Control options	U
Standards	CE, cETLus, IEC 61010-1
Drive ingress protection	IP66, NEMA 12/13
Humidity	(Non-condensing) 80 % up to 31 °C (88 °F) decreasing linearly to 50 % at 40 °C (104 °F)
Noise	<70dB(A) at 1m
Max. altitude	2000 m (6562 ft)
Drive power supply	100 V to 120 V/200 V to 240 V 1ph 50/60 Hz 250 VA

Materials of construction

	Quantum 600
Drive casework	Anodised aluminium, Silicone
Keypad/HMI	Polyester
Seals	Silicone

Quantum 600 dimensions



Control options

Pump drives	Universal
Manual control	
Intuitive keypad and colour display	✓
Choice of flow rate or speed display	✓
Full calibration with choice of flow units	✓
Remote control	
Configurable Start/Stop, leak detector input (via contact closure or 5V TTL or 24V industrial logic)	✓
Direction change and auto/manual toggle input (via contact closure or 5V TTL or 24V industrial logic)	✓
Remote operation of MemoDose (foot/hand-switch or logic input)	✓
Four configurable digital status outputs through 24V, 30W relays	✓
Analogue speed control	
Fully configurable inputs; 0-10V or 4-20mA	✓
Analogue outputs; 0-10V, 4-20mA	✓
Tacho frequency output; 0 to 1067 Hz, 0 to 400RPM	✓
Security	
3-level Security PIN lock	✓

Product codes



Plug options*

- U: UK mains plug
- E: EU mains plug
- A: American mains plug
- K: Australia mains plug
- R: Argentina mains plug
- C: Swiss mains plug
- D: India/South Africa mains plug

*IP66 / NEMA 12/13 pumps are supplied with a 2.5m/8.2ft lead attached to an American, Australia, Argentina, Swiss or South Africa mains plug

NOTE: Each pump is supplied with 1 bolt down bracket.

Description	Partcode
ReNu SU 600 20/3P	33-1061-000001
ReNu SU CONNECTION KIT, BRAIDED PLATINUM-CURED SILICONE HOSE, 3/4" TC E/E, 0.5 MTR	33-1069-000001
ReNu SU CONNECTION KIT, BRAIDED PLATINUM-CURED SILICONE HOSE, 3/4" TC E/E, 1 MTR	33-1069-000002
ReNu SU CONNECTION KIT, BRAIDED PLATINUM-CURED SILICONE HOSE, 3/4" TC E/E, 3 MTR	33-1069-000003

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. 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. It is the user's responsibility to ensure product suitability for use within their application. Watson-Marlow, LoadSure, Pumpsil, PureWeld XL, Bioprene, Marprene are registered trademarks of Watson-Marlow Limited. Tri-Clamp is a registered trademark of Alfa Laval Corporate AB. GORE and STA-PURE are registered trademarks of W.L. Gore and Associates. Please state the product code when ordering pumps and tubing.



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