

NEW!
530
Pumps

Model 530 Industrial process pumps

Robust, accurate, intuitive



- No metal to metal contact and no contamination of the pump or the fluid
- Self-priming and dry-running
- One-minute maintenance



Easy to install and incredibly simple to use

Maintaining process integrity with visual status indication and an intuitive user-interface

Simplify your system design with Watson-Marlow peristaltic technology

Ultimate process security with a 3 level PIN lock

Speed control range 2,200:1 with flow proportional to pump speed

No valves, seals or glands to wear or replace

Reduce process downtime – one-minute maintenance

IP66 protection option

Industrial integration – manual, remote, Analog and digital communication, plus PROFIBUS

Safe operation with complete isolation of hazardous chemicals

Optimise your chemical metering - accurate and repeatable flows of caustic, abrasive, high viscosity, gases and suspended solids

Why Watson-Marlow makes the right pump for you

Watson-Marlow Fluid Technology Group is unique in being able to work with you at every process step to ensure your fluid transfer requirements are achieved. Whether performing flocculent addition or chemical metering, we have a solution which can cut pump downtime and reduce chemical costs.

In continuous use in water treatment and manufacturing industries globally, extremely low maintenance requirements and complete containment of the pumped fluid, ensures there is no risk to operators or the environment.

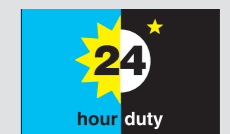
- Flexible and scalable fluid handling with low cost of ownership
- Superior flow stability up to 3.5 litres per minute, providing accurate and repeatable process control
- Extensive product portfolio enables adaptation to meet varying process needs

Confident controllability

Watson-Marlow pumps integrate seamlessly into your process control system. Pumps are self-contained and easily configurable, so there is no need for separate variable frequency drives or complex control devices.

Reliability

We know that pump failure during production cannot be tolerated due to the intrinsic value of the product. That is why we design our drives to be maintenance-free. We utilise spring-loaded rollers and tracks to provide long and repeatable tube life too.



Where we keep industry productive

Chemical metering and transfer in environmental, galvanics, construction and paper/pulp industries

Chemical metering and transfer: corrosive acids and bases

Water and waste water treatment: sodium hypochlorite, hydrofluorosilic acid and ferric chloride

Paint and pigments: dispersion mill feed, pigment and latex transfer

Pulp and paper: dyes, brighteners, sizing agents, retention aids and titanium dioxide

Mining and mineral separation: reagents, polymers and flocculants

Construction: cement, brick and roof tiles; metering and spraying of colourant, coatings and additives

Printing and packaging: varnishes, inks, coatings and adhesives, with no colour cross-contamination or aeration

Textiles: fibre coatings, dyes and acids

Fine chemicals production: metering of process chemicals

Engineering: spray coating and waste recovery

OEM: versions available for system suppliers



Feature	530Du/ 530DuN	530U/ 530UN	530S/ 530SN	530Bp/ 530BpN
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 and pressure switch 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 (530DuN/530UN only)	•	•		
Software configurable IP31 outputs	•	•		
Analog speed control				
Fully configurable inputs; 0-10V or 4-20mA. Analog outputs; 0-10V, 4-20mA	•	•		
Keypad/Analog input scaling (replacement of diaphragm pumps)	•	•		
Tacho frequency output; 0-991Hz	•	•		
Digital communication				
RS485 network control (530DuN only)	•			
RS232 network control (530Du only)	•			
Fieldbus technology				
PROFIBUS DP V0				•
Security				
3-level security PIN lock	•	•	•	•

Pump and tubing have equal importance


It is important to recognise that the pump and tubing combination are selected to match your specific application criteria.

Watson-Marlow is the only company that manufactures both the cased pumps and peristaltic tubing, which is a real advantage for customers that want to be certain that their peristaltic pump will work right first time and every time.



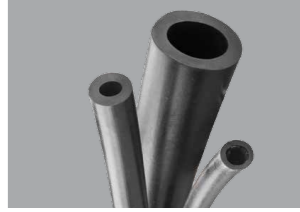
520 pumpheads: flow ranges, 0.1-220rpm. ml/min									
Tube bore (mm, #)		0.5 112	0.8 13	1.6 14	3.2 16	4.8 25	6.4 17	8.0 18	9.6 193
520R and 520R2 (continuous tubing)	Neoprene	0.0040 -9.5	0.01 -24	0.04 -97	0.18 -390	0.40 -870	0.70 -1500	1.1 -2400	1.6 -3500
	Marprene/64 shore tubing	0.0040 -9.0	0.01 -23	0.04 -92	0.17 -370	0.38 -830	0.67 -1500	1.1 -2300	1.5 -3300
520REL (LoadSure elements to 2bar)	Neoprene				0.18 -390	0.70 -1500	1.6 -3500		
	Marprene TL				0.17 -370	0.67 -1500	1.5 -3300		
520REM (LoadSure elements to 4bar)	Marprene TM				0.17 -370	0.67 -1500			
520REH (LoadSure elements to 7bar)	Marprene TH				0.20 -450				

Tubing features	Marprene	Neoprene
LoadSure® elements	•	•
Continuous tubing	•	•
ISO 10993	•	
Low gas permeability	•	
Wide chemical resistance	•	
High pressure capability 2-7bar	•	
Up to 10,000 hours pumping life	•	



Marprene®
Industrial grade thermoplastic elastomer tubing

- Wide chemical compatibility and long life
- Low gas permeability
- Highly resistant to oxidising agents



Neoprene
Industrial grade thermoplastic elastomer tubing

- Excellent performance with abrasive slurries
- Good suction and pressure capabilities

Product weight		
530 Drive only	+ 520R, 520R2	+ 520REL, 520REM, 520REH
IP31 9.70kg	10.60kg	10.52kg
IP66 10.58kg	11.48kg	11.40kg

LoadSure® pumpheads guarantee correct tube loading

Watson-Marlow LoadSure technology offers snap-fit one minute maintenance. LoadSure elements offer greater reliability, easy installation and increased productivity.



520REH

- 7bar Pressures
- Flow rates up to 450 ml/min
- LoadSure® elements are available in Marprene TH



520REM

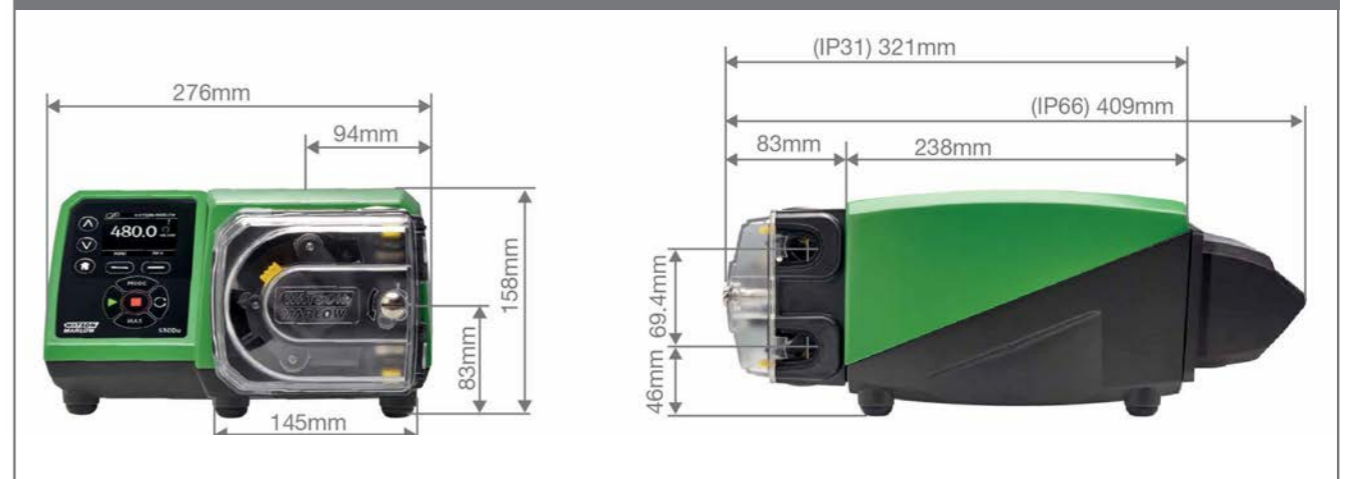
- 4bar Pressures
- Flow rates up to 1500 ml/min
- LoadSure® elements are available in Marprene TM



520REL

- 2bar Pressures
- Flow rates up to 3500 ml/min
- LoadSure® elements are available in Marprene TL

Dimensions

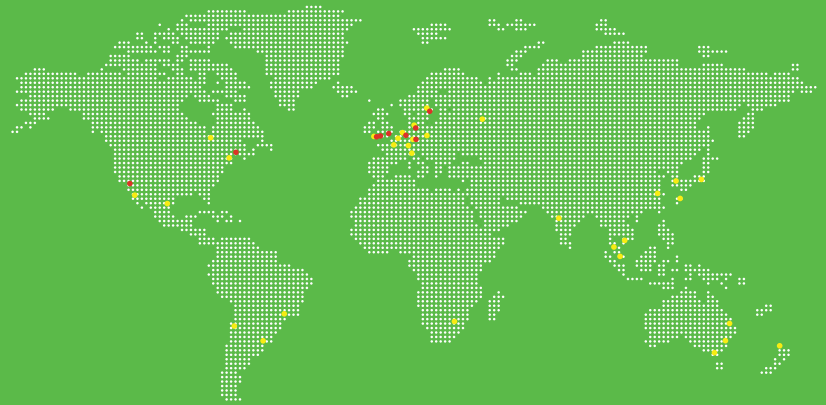


**WATSON
MARLOW**

Fluid Technology Group

A Spirax-Sarco Engineering Company

Watson-Marlow Fluid Technology Group has nine world-class factories supported by direct sales operations in 29 countries and distributors in more than 50 countries. For contact details visit our website:



Watson-Marlow Bredel Alitea Flexicon MasoSine BioPure Asepco Flow Smart



Watson-Marlow online

Our engineers around the world can help you choose the perfect pump and tubing for your needs.

More information? Our brochures are on our website:
www.wmftg.com

Global support

For many companies, global coverage will be a key consideration in their choice of equipment. Customers should assess the supplier's ability to supply certified spares, components, service and support on a truly global basis. Watson-Marlow Fluid Technology Group has direct sales operations in 29 countries and a worldwide network of distributors. These factors combine to give customers confidence that their pumps and systems can be supported, maintained and optimised on a global basis.



Watson-Marlow... Innovation in Full Flow

Watson-Marlow Fluid Technology Group
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