

720 SANITARY PUMPS Watson-Marlow Bredel...Value for life

NEW



The perfect solution for single-use

Pumping elements can be fitted to the 720 pump in seconds without breaking system integrity. Unlike lobe pumps, there is no cleaning to validate, dramatically reducing product time to market. With control options to suit your process and your choice of pumphead and tube options, the new 720



Now make your tube material choice...

Pumpsil for traceability

Pumpsil platinumcured tubing has an extra-smooth bore for less protein binding and high levels of purity.

Every length of Pumpsil is laser-etched to protect validated processes and comply with approval requirements.

Bioprene for FDA approval

Bioprene complies with USP Class VI, FDA requirements 21 CFR 177.2600 and NSF and USDA standards for food handling. It has wide chemical compatibility and can handle repeated autoclaving.



Sta-Pure has a unique construction of silicone in a PTFE lattice giving it superior burst resistance up to 7 bar (100psi) and 18 times longer life than silicone tubing. It produces virtually no spalling, is USP Class VI approved and is classified as non-toxic.

transfer package you've been waiting for

bioprocessing

sanitary element pump maximises productivity, speeds development time and improves profitability.

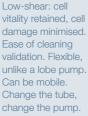


Filtration

The 720's four driven rollers provide a low-pulse, very low-shear flow for maximum live cell retention. Full skid integration through the comprehensive remote, analogue or RS485 control.



Live cell transfer





Images used by courtesy of Stedim Biosystems and Sartorius BBI Systems GmbH

... and connect up

BioBarb disposable tube connectors

BioBarb polypropylene fittings assure sterility wherever a fluid flow must divide, or where tubing lengths must join. BioBarb fittings do not choke the fluid path



No compromise

Your process is in place. After months of research you want to scale-up production with the same technology. The new Watson-Marlow Bredel 720 sanitary pump is the perfect choice: metering and transfer without loss, contamination or cell damage. No compromise.

- Up to 4,000 litres/hour; up to 2 bar
- 3,600:1 control ratio
- Maintenance-free, brushless DC motor with no carbon brush dust
- Tough, corrosion-resistant IP66 washdown case
- Five years warranty: value for life
- Low-shear pumping to maximise cell yield
- Simple operation and PIN protected: SOPs made easy
- Full remote, analogue and RS485 control for skid integration
- Four driven rollers for low pulse pumping

Removable track facilitates CIP, allowing cleaning to cGMP. Straight-through flow path ensures perfect cleaning -unlike a lobe pump where dead spots and seals make it difficult to ensure cleanliness.

LoadSure elements: the tubing for the job

The 720 is perfect for use with Watson-Marlow Bredel validated, fully traceable LoadSure elements. Choose continuous tubing where no joins in the fluid line is a vital consideration, or tube elements if simple, fast and foolproof tube loading is preferred.

• LoadSure elements are fully traceable back to raw materials for all wetted parts



- LoadSure traceability via LOT number permanently laser-etched on the element
- Certificate of conformity is supplied with all tubing and elements
- Pumpsil, Bioprene and Sta-Pure validation packs are available upon request
- There are three material and four bore size options for LoadSure elements (Pumpsil, Bioprene, Sta-Pure)
- There are four materials and five bore size options for continuous tubing (Marprene, Pumpsil, Bioprene, Sta-Pure)

United Kingdom Telephone +44 (0) 1326 370370 Fax: +44 (0) 1326 376009 Email info@watson-marlow.co.uk www.watson-marlow.co.uk

Belgium

Telephone +32 9 225 94 57 Fax: +32 9 233 06 49 Email info@watson-marlow.be www.watson-marlow.be

Brazil Telephone +55 11 4616 0404

Fax: +55 11 4616 0403 Email info4brazil@watson-marlow.com www.watson-marlow.com.br China

Telephone +86 21 6485 4898 Fax: +86 21 6485 4899 Email info@watson-marlow.cn www.watson-marlow.cn

Denmark

Telephone +00 45 43 94 00 65 Fax: +00 45 43 94 00 85 Email info@watson-marlow.dk www.watson-marlow.dk

France Telephone +33 (0) 2 37 38 92 03 Fax: +33 (0) 2 37 38 92 04 Email info@watson-marlow fr www.watson-marlow.fr

Germany Telephone +49 (0) 2183 42040 Telephone +49 (0) 2183 4 Fax: +49 (0) 2183 82592 Email info@watson-marlow.de

www.watson-marlow.de Italy Telephone +39 030 6871184 Fax: +39 030 6871352

Email info@watson-marlow.it www.watson-marlow.it Korea

Telephone +82 (0) 2 525 5755 Fax: +82 (0) 2 525 5764 Email support4k@watson-marlow.co.uk www.watson-marlow.co.kr

Malaysia Telephone +60 (3) 5635 3323 Fax: +60 (3) 5635 7717 Email sales@my.SpiraxSarco.com **Netherlands**

. 10 462 1688 Telephone +31 (0) 10 462 Fax: +31 (0) 10 462 3486 Email info@watson-marlow nl www.watson-marlow.nl

South Africa Telephone +27 11 796 2960 Fax: +27 11 794 1250

Email info@wmbpumps.co.za Sweden Telephone +46 8 556 556 00 Fax: +46 8 556 556 19 Email info@watson-marlow.se

www.watson-marlow.com

www.watson-marlow.se **United States of America** Telephone 800 282 8823 Fax: 978 658 0041 Email support@wmbpumps.com

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AUKETT

Industrial strength pumps with unrivalled precision

Pump Specification Pum		Pumphead	Product code	
720SN/R	IP66 0.1-360rpm	720R pumphead, max 2 bar, continuous tubing	070.413N.000	
720SN/RE	IP66 0.1-360rpm	720RE pumphead, max 2 bar, elements	070.413N.E00	
720SN/R/RX	IP66 0.1-360rpm	720R plus 720RX pumpheads, max 1 bar, continuous tubing	070.413N.X00	
720SN/RE/REX	IP66 0.1-360rpm	720RE plus 720REX pumphead, max 1 bar, elements	070.413N.EX0	
720UN/R IP66 0.1-360rpm 720F		720R pumphead, max 2 bar, continuous tubing	070.414N.000	
720UN/RE	IP66 0.1-360rpm	720RE pumphead, max 2 bar, elements	070.414N.E00	
720UN/R/RX	IP66 0.1-360rpm	720R plus 720RX pumpheads, max 1 bar, continuous tubing	070.414N.X00	
720UN/RE/REX	RE/REX IP66 0.1-360rpm 720RE plus 720REX pumphead, max 1 bar, elements		070.414N.EX0	
720DuN/R	IP66 0.1-360rpm	720R pumphead, max 2 bar, continuous tubing	070.415N.000	
720DuN/RE	DDUN/RE IP66 0.1-360rpm 720RE pumphead, max 2 bar, elements		070.415N.E00	
720DuN/R/RX	IP66 0.1-360rpm	720R plus 720RX pumpheads, max 1 bar, continuous tubing	070.415N.X00	
720DuN/RE/REX IP66 0.1-360rpm 7		720RE plus 720REX pumphead, max 1 bar, elements	070.415N.EX0	
All pumps supplied with mains lead with	n no plug. For American plug, replace the	last digit of the part code with an A		

Accessory	Description	Product code	Pumphead				
720AL	Leak detector kit for 720SN, 720UN and 720DuN	079.6131.000					
	1m 19mm bore transparent PVC tubing with 3/4" PP female C&G connectors	069.6171.PFC					
	3m 19mm bore transparent PVC tubing with 3/4" PP female C&G connectors	069.6173.PFC	720R	4 roller pumphead for maximum 2 bar. Accepts continuous tubing only (includes continuous tube clamp set)	073.2001.000		
	1m 19mm bore transparent PVC tubing with 3/4" PP female/male C&G connectors	069.6171.PTC		only (includes continuous tube clamp set)			
	3m 19mm bore transparent PVC tubing with 3/4" PP female/male C&G connectors	069.6173.PTC					
	1m 25.4mm bore transparent PVC tubing with 1" PP female/male C&G connectors	079.61A1.PTC		Extension pumphead for maximum 1 bar. Accepts continuous tubing			
	3m 25.4mm bore transparent PVC tubing with 1" PP female/male C&G connectors	079.61A3.PTC	720RX	only (includes continuous tube clamp set)			
	1m 19mm bore black PVC tubing with 3/4" PP female C&G connectors	069.6181.PFC					
	3m 19mm bore black PVC tubing with 3/4" PP female C&G connectors	069.6183.PFC			073.2004.000		
Interface tubing	1m 19mm bore black PVC tubing with 3/4" PP female/male C&G connectors	069.6181.PTC	70005	4 roller pumphead for maximum 2 bar. Accepts LoadSure tubing			
	3m 19mm bore black PVC tubing with 3/4" PP female/male C&G connectors	069.6183.PTC	720RE	elements only (no requirement for tube clamp set)			
	1m 25.4mm bore black PVC tubing with 1" PP female/male C&G connectors	079.61B1.PTC					
	3m 25.4mm bore black PVC tubing with 1" PP female/male C&G connectors	079.61B3.PTC					
	1m 19mm bore Silicone tubing with 3/4" PVDF Tri-clamp style connectors	079.61C1.PVT					
	3m 19mm bore Silicone tubing with 3/4" PVDF Tri-clamp style connectors	079.61C3.PVT	720REX	Extension pumphead for maximum 1 bar. Accepts LoadSure tubing elements only (no requirement for tube clamp set)	073.2014.000		
	1m 25.4mm bore Silicone tubing with 1" PVDF Tri-clamp style connectors	079.61D1.PVT		cionena eny (ne requiement of tabe damp set)			
	3m 25.4mm bore Silicone tubing with 1" PVDF Tri-clamp style connectors	079.61D3.PVT					

Continuous ti	Continuous tubing for 720R and 720RX						
	9.6mm	12.7mm	15.9mm	19mm	25.4mm		
Marprene	902.0096.048	902.0127.048	902.0159.048	902.0190.048	902.0254.048		
Pumpsil	913.A096.048	913.A127.048	913.A159.048	913.A190.048	913.A254.048		
Neoprene	920.0096.048	920.0127.048	920.0159.048	920.0190.048	920.0254.048		
Bioprene	903.0096.048	903.0127.048	903.0159.048	903.0190.048	903.0254.048		
Sta-Pure	960.0096.048	960.0127.048	960.0159.048	960.0190.048	960.0254.048		

Element codes for 720RE and 720REX

ſ		LoadSure Industrial elements Cam and Groove PP connectors			LoadSure Sanitary elements Tri-clamp style PVDF connectors				
		12.7mm	15.9mm	19.0mm	25.4mm	12.7mm	15.9mm	19.0mm	25.4mm
1	Marprene	902.0127.PPC	902.0159.PPC	902.0190.PPC	902.0254.PPC				
	Pumpsil	913.A127.PPC	913.A159.PPC	913.A190.PPC	913.A254.PPC	913.A127.PFT	913.A159.PFT	913.A190.PFT	913.A254.PFT
	Neoprene	920.0127.PPC	920.0159.PPC	920.0190.PPC	920.0254.PPC				
	Bioprene					903.0127.PFT	903.0159.PFT	903.0190.PFT	903.0254.PFT
	Sta-Pure					960.0127.PFT	960.0159.PFT	960.0190.PFT	960.0254.PFT

Functionality	720SN	720UN	720DuN
Enclosure - ingress protection rating	IP66	IP66	IP66
Manual control			
Keypad speed control with simple calibration to display flow	•	•	•
Comprehensive calibration for flow rate display; metric or imperial units			•
Numeric keypad for entry of speed, flow or PIN code			•
Cumulative volume indication			•
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 MemoDose (foot/hand-switch or logic input)		•	•
Four programmable digital status outputs through 24V, 30W relays		•	•
Analogue speed control			
Software programmable inputs; 0-10V, 1-5V or 4-20mA		•	•
Analogue outputs; 0-10V (8 bit resolution)		•	
Analogue outputs; 0-10V, 4-20mA (8 bit resolution)			•
Keypad/analogue input scaling (replacement of diaphragm pumps)			•
Frequency output; 0-768Hz			•
RS485 digital communication			
Digital network serial control			•
Security			
Basic security code to protect set-up		•	
Dual operator/supervisor PIN code protection of pump settings			•

CE NEMA 4X



Call +44 (0) 1326 370 370 for further information on the 720 pump range including technical data sheets.

or log on to our web site:

www.watson-marlow.co.uk to view details of our complete peristaltic pump range.

Watson-Marlow Bredel Pumps Falmouth Cornwall TR11 4RU England Tel: +44 (0) 1326 370 370 Fax: +44 (0) 1326 376 009 info@watson-marlow.co.uk www.watson-marlow.co.uk



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