

















Improving your PERFORMANCE

701DFB/RA and 701DFB/REA ATEX pumps

Technical information

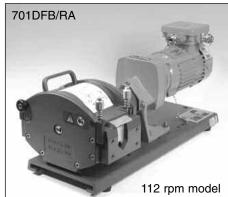
- ATEX Category II Group 2 Gas max surface temperature 135C (II 2G c IIB T4) fixed pump assembly
- 701RBA and 701RBXA pumpheads for use with 9.6, 12.7, 15.9 and 19.0mm bore 4.8mm wall thickness continuous tubing
- 701RBEA and 701RBEXA pumpheads for use with 12.7mm, 15.9mm and 19.0mm bore LoadSure tubing elements fitted with Cam and Groove connectors
- One minute maintenance from patented LoadSure technology
- Pumphead has four driven rollers and a spring loaded track for extended tube life and reduced pulsation
- Variable frequency drive* control motor options
- 0.37kW geared units and 1.1kW motors, 230/400V 3 phase 50Hz TEFC EExd IIB T4 geared units with positive temperature coefficient (PTC) thermistors
- 0.37kW & 1.1kW variable frequency drive options available with various control functionality

^{*10:1} speed reduction available using VFD from geared units, must be fitted with thermistors



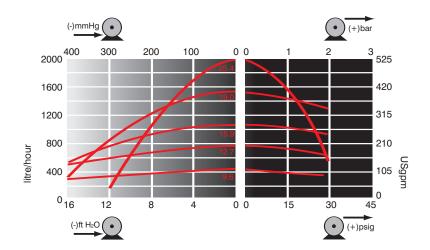






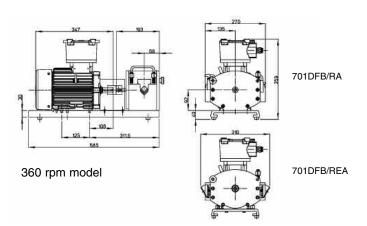
Flow rates at transfer pressure with water at 20C (litres/hour)

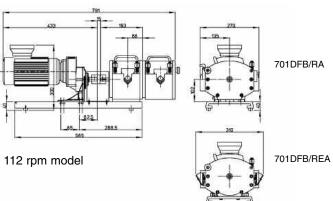
Fixed	701R continuous tubing				701RE LoadSure elements			
speeds	9.6mm	12.7mm	15.9mm	19.0mm	25.4mm	12.7mm	15.9mm	19.0mm
112rpm	130	240	340	470	620	240	340	470
360rpm	420	780	1100	1500	2000	780	1100	1500



For critical applications determine flow under operating conditions. Flow can vary due to tube tolerances and system configuration

Flow rates at 360rpm, clockwise, water 20°C





701DFB/RA and 701DFB/REA ATEX pumps

Order information			
Pump ordering codes			
Pump	rpm	Supply	Product code
701DFB/RA	112	230/400V 50Hz 3ph 0.37kW *10:1	070.1012.000
PTC's plated for inverter use	360	230/400V 50Hz 3ph 0.37kW *10:1	070.1032.000
701DFB/REA	112	230/400V 50Hz 3ph 0.37kW *10:1	070.1012.E00
PTC's plated for inverter use	360	230/400V 50Hz 3ph 0.37kW *10:1	070.1032.E00
*10:1 around radiustion available using VED. Cooked units fitted with DTC thermisters			

Pumphead orde	ering codes	
Pumphead	Description	Product code
701RBA	Four roller continuous tubing ATEX pumphead	073.0101.A00
701RBEA	Four roller LoadSure element ATEX pumphead	073.0104.A00
701RBXA	Four roller continuous tubing ATEX extension pumphead	073.0111.A00
701RBEXA	Four roller LoadSure element ATEX extension pumphead	073.0114.A00
701RBGA	Four roller continuous tubing ATEX pumphead	073.0121.A0G
	for STA-PURE tubing	

Variable frequency drive ordering (0.25kW) Filter Inverter Product code Supply Micromaster Compact "Plus' Class B 230/400V 50Hz/60Hz 3ph 079.4037.1FP 230/400V 50Hz/60Hz 3ph Micromaster Compact "Basic 079.4037.1FB Class A Micromaster Compact "Vector" Class A 230/400V 50Hz/60Hz 3ph 079.4037.1FV Class A 230/400V 50Hz/60Hz 3ph 079.4110.1FB Micromaster Compact "Basic" Micromaster Compact "Vector Class A 230/400V 50Hz/60Hz 3ph 079.4110.1FV

Tubing 4.8mm wall tubing ordering codes				
Bore/wall (mm)	Bioprene	Marprene	Platinum Silicone	
9.6/4.8	903.0096.048	902.0096.048	913.A096.048	
12.7/4.8	903.0127.048	902.0127.048	913.A127.048	
15.9/4.8	903.0159.048	902.0159.048	913.A159.048	
19.0/4.8	903.0190.048	902.0190.048	913.A190.048	
25.4/4.8	903.0254.048	902.0254.048	913.A254.048	
Bore/wall (mm)	Neoprene	STA-PURE	Chem-Sure	
9.6/4.8	920.0096.048	960.0096.048	965.0096.048	
12.7/4.8	920.0127.048	960.0127.048	965.0127.048	
15.9/4.8	920.0159.048	960.0159.048	965.0159.048	
19.0/4.8	920.0190.048	960.0190.048	965.0190.048	
25.4/4.8	920.0250.048	960.0250.048	965.0250.048	

LoadSure elements			
Bore/wall (mm)	12.7mmx4.8mm C&G	15.9 mmx4.8mm C&G	19.0mmx4.8mm C&G
	with PP 3/4" connectors	with PP 3/4" connectors	with PP 3/4" connectors
Marprene	902.0127.PPC	902.0159.PPC	902.0190.PPC
Neoprene	920.0127.PPC	920.0159.PPC	920.0190.PPC

All flow rates shown were obtained pumping water at 20C (68F) with zero suction and delivery heads. Watson-Marlow, Bioprene and Marprene are trademarks of Watson-Marlow Limited.

Disclaimer: 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.

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Please state the product code when ordering pumps and tubing.

Specification

Weight	35kg max
Ingress protection	IP55 geared uni

Operational	
temperature range	5°C to 40°C

EN13463-1:2001

Supply 230/400V 50Hz 3 phase

Materials of construction

Motor	Cast aluminium	allov

Gearbox Cast iron
Rotor end plates Aluminium

Cradle assembly, track Aluminium epoxy finish -

black

Central shaft EN24 steel

Sun gearMild steel - zinc platedEarth leadsCopper, tin platedClamp release leversGlass-filled nylonSprings, spindlesStainless steel

Fixings Stainless steel



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