

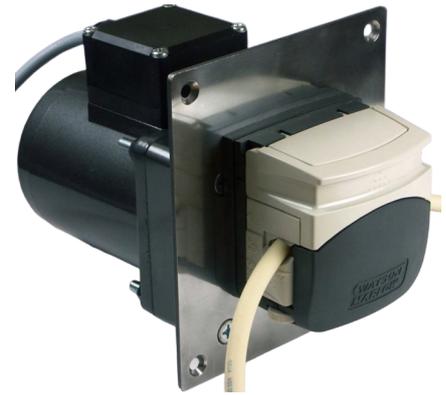
300 FAM heavy duty pump



300 series panel mount pumps

Key Features

- Rugged peristaltic pumps for industrial applications
- Heavy duty spur gearbox with ball bearings
- Iconic flip-top design for fast and error-free tube loading
- Available with 313X extension pumpheads for multi-channel applications
- Flow rates up to 1450 ml/min



300 FAM heavy duty pump performance

313/314 FAM pumps – Flow rates (ml/min)								
Tube bore (mm)	FAM 50Hz				FAM 60Hz			
	Speed (rpm)							
	37	75	145	290	42	85	170	
0.5	1.3	2.6	5.0	10	1.4	3.0	6.0	
0.8	2.6	5.4	10	21	3.0	6.0	12	
1.6	10	20	39	79	11	23	46	
3.2	37	75	145	290	42	85	170	
4.8	80	165	320	640	90	190	375	
6.4	130	270	520	1045	150	305	610	
8.0	185	375	725	1450	210	425	850	

314 flowrates are approximately 85 % of 313 flow rates

Marprene tubing 1.6 mm wall, zero pressure and no suction lift

Nominal flow rates may vary +/-10 %

Technical specifications

	300 FAM heavy duty pump
Motor types	Synchronous AC motor
Pumphead options	313D, 314D
Pumphead number of rollers	3, 4
Pumphead number of channels	1
Flow rate range	1.3 ml/min to 1450 ml/min
Operating speed range	37 rpm to 290 rpm
Supply voltage	110 V to 115 V AC, 60 Hz, 220 V to 230 V AC, 50 Hz
Operating temperature ranges	-10 °C to 40 °C (23 °F to 104 °F)
Rated Power	40 W
Control options	Fixed speed, Manual variable speed
Alarms	Cover-open
Ingress Protection	IP41 drive
Gearbox ratio	Spur; 10:1, Spur; 20:1, Spur; 40:1, Spur; 5:1
Compatible tubing bore size	0.5, 0.8, 1.6, 3.2, 4.8, 6.4, 8 mm
Compatible tubing wall thickness	1.6 mm

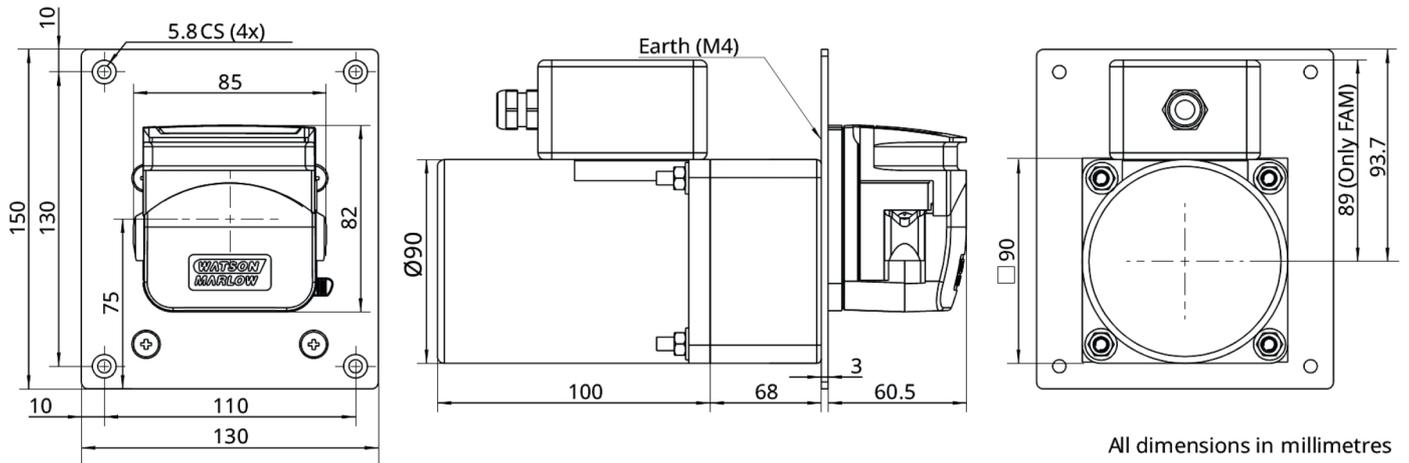
For detailed specifications of individual models refer to product reference manual or contact WMFTS representative.

Materials of construction

	300 FAM heavy duty pump
Pumphead body assembly	Glass filled polypropylene, Polyacrylamide–IXEF (PARA), Stainless steel
Pumphead rotor assembly	Electroless nickel plated hardened steel, Glass filled Nylon
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron)

Information listed covers the complete range. For detailed specifications of individual models/components refer to product reference manual or contact WMFTS representative.

300 FAM heavy duty pump dimensions



Product codes

Pump product codes				
Description	Supply voltage	Speed (rpm)	Number of channels	Product code
313FAM/D	230 VAC, 50 Hz	37	6	040.AG23.010
	115 VAC, 60 Hz	42	4	040.EH23.010
	230 VAC, 50 Hz	75	4	040.AN23.010
	115 VAC, 60 Hz	85	2	040.EP23.010
	230 VAC, 50 Hz	145	2	040.AQ23.010
	115 VAC, 60 Hz	170	1	040.ER23.010
	230 VAC, 50 Hz	290	1	040.AU23.010

Silicone 8.0 mm no backpressure

Marprene max 6.4 mm no backpressure

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. Watson-Marlow, Pumpsil, PureWeld XL, Bioprene and Marprene are trademarks of Watson-Marlow Limited. 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. GORE and STA-PURE are trademarks of W. L. Gore & Associates. Please state the product code when ordering pumps and tubing.



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