

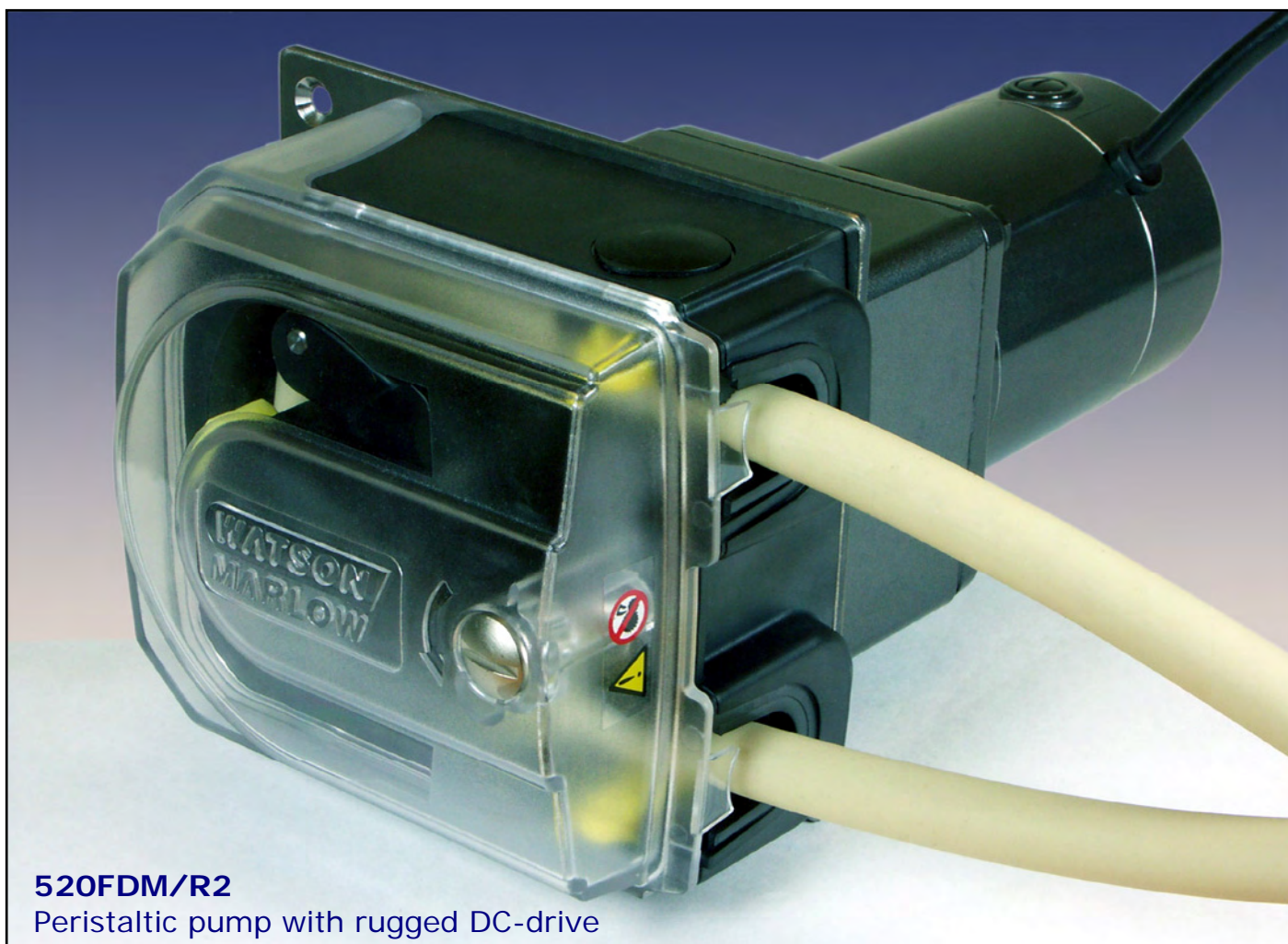
# OEM

**WATSON  
MARLOW  
ALITEA**

## 520 FAM, 520 FDM and 520 VBM Heavy duty AC and DC OEM-pumps

### Technical information and features

- Rugged peristaltic pumps for industrial applications
- IP 54 (520 FAM and 520 VBM)
- Complete range of drives; AC, DC and Brushless DC
- Heavy duty spur gearbox with ball bearings
- Outstanding performance high flow pumphead
- Spring-loaded stainless steel rollers with ball bearings provide gentle pumping and long tube life
- Stainless steel face plate
- Flow rates up to 300 litres/hour



**520FDM/R2**

Peristaltic pump with rugged DC-drive





## Flow Rates Marprene tubing 2.4mm (3/32") wall, zero pressure and no suction height

ml/min with tubing dimension:		0.5mm	0.8mm	1.6mm	3.2mm	4.8mm	6.4mm	8.0mm	9.6mm
FAM 50Hz	37 rpm	1,5	3,9	15	62	140	250	390	550
	75 rpm	3,1	7,8	31	130	280	510	780	1120
	145 rpm	5,9	15	61	240	550	990	1520	2170
	290 rpm	12	30	120	490	1090	1980	3030	4350
FAM 60Hz	42 rpm	1,7	4,4	18	70	160	290	440	630
	85 rpm	3,5	8,8	35	140	320	580	890	1270
	170 rpm	7,0	17,5	71	280	640	1160	1780	2550
FDM 12/24VDC	45 rpm	1,8	4,7	19	76	170	310	470	670
	90 rpm	3,7	9,4	38	150	340	610	940	1350
	175 rpm	7,2	18	73	290	660	1190	1830	2620
	230 rpm	9,4	24	96	390	870	1570	2400	3450
VBM 24VDC	100 rpm	4,1	10,5	42	170	380	680	1040	1500
	190 rpm	7,8	20	79	320	720	1295	1980	2850
	360 rpm	15	38	150	600	1360	2450	3760*	5400*

For Pumpsil-, Tygon-, Sta-Pure-, Chem-Sure- and Neoprene-flowrates, add 5% to the above figures.  
For pressure performance see pumphead data sheet.

## Product codes

520 FAM		
Supply voltage	Speed	520FAM/R2
230VAC, 50Hz	37	040.AG22.210
115VAC, 60Hz	42	040.EH22.210
230VAC, 50Hz	75	040.AN22.210
115VAC, 60Hz	85	040.EP22.210
230VAC, 50Hz	145	040.AQ22.210
115VAC, 60Hz	170	040.ER22.210
230VAC, 50Hz	290	040.AU22.210

520 FDM		
Supply voltage	Speed	520FDM/R2
12VDC	45	040.CH22.210
24VDC	45	040.DH22.210
12VDC	90	040.CP22.210
24VDC	90	040.DP22.210
12VDC	175	040.CR22.210
24VDC	175	040.DR22.210
12VDC	230	040.CT22.210
24VDC	230	040.DT22.210

520 VBM		
Supply voltage	Speed	520VBM/R2
24VDC	100	040.NP22.210
24VDC	190	040.NS22.210
24VDC	360*	040.NV22.210

\* 360rpm drive not for high torque applications (max 0.7Nm)  
Max 6.4mm Marprene, no backpressure

Alternative pumpheads available for all pumps:

- **520 R** for 1.6mm wall tubing
- **LoadSure® Element pumpheads**
  - **520REL** for up to 2 bar (30psi) pressure
  - **520REM** for up to 4 bar (60psi) pressure
  - **520REH** for up to 7 bar (100psi) pressure

## Customised Solutions

If you don't find exactly what you are looking for in this data sheet a customised product could be the solution.

The drives can be supplied with alternative gear ratios and other motors such as variable speed AC and fan-cooled AC. The pumphead can be fitted on a customised face plate and more.

**520 Pumphead** Stainless steel rollers with ball bearings for long pump life.

Please contact your Watson-Marlow sales office for price and lead time

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