

Micro Pumps

uf-7000FB2 Series

uf-7000FB2 series is the plunger type pump directly driven by micro stepping motor by means of ball screw. Strong acid can be pumped since the liquid contact parts are made of fluorine resin, sapphire, ruby and alumina. This series will cover a wide range of applications from quick-return pump for micro volume feeding with short-stroke to be used with reaction liquid to high flow rate pumps for preparative works.

Specifications :

Model	7000FSWB2	7000FSSWB2	7002FSB2	7002FSSB2	7005FSB2	7010FSB2
General Application	Analytical				Analytical and preparative works	
Feed Method	Stepping motor, ball screw driven, single plunger					
Mode	Constant flow rate					
Flow rate (mL/min)	0.001 – 0.500, 0.001 step		0.01 – 2.00, 0.01 step		0.01 – 5.00 0.01 step	0.01 – 9.99 0.01 step
Accuracy	+/- 3% (0.1 mL/min -)				+/- 3% (1 mL/min -)	
Reproducibility	0.2 % or less (0.1 mL/min)				1 % or less (5 mL/min)	
Volume/Stroke (μL)	31.6	15.8	63.3	15.8	135	308
Max. Output Pressure (MPa)	10					5
Liquid Contact Parts	NB 1					
Inner Cleaning of Plunger Seal	Available					
Input/Output	Through DC voltage, external input of flow rate settings, Pump RUN/STOP input, Pump RUN output					
Dimensions	70 (W) x 170 (H) x 370 (D) mm / 2.8 (W) x 6.7 (H) x 14.6 (D) in.					
Weight	3 kg, 6.6 lb					
Power Supply	AC 100, 120, 220, 240V, 50/60 Hz, 2A					
Ambient Temperature	4 – 35 degrees C (without dew condensation)					

Model	7020FSB2	7050FAB2
General Application	Middle pressure preparative works	
Feed Method	Stepping motor, ball screw driven, single plunger	
Mode	Constant flow rate	
Flow rate (mL/min)	0.1 – 20.0 0.1 step	0.1 – 50.0 0.1 step
Accuracy	+/- 3% (1 mL/min -)	
Reproducibility	1 % or less (5 mL/min)	
Volume/Stroke (μL)	570	1,230
Max. Output Pressure (MPa)	3	1.2
Liquid Contact Parts	NB 1	NB 2
Inner Cleaning of Plunger Seal	Available	
Input/Output	Through DC voltage, external input of flow rate settings, Pump RUN/STOP input, Pump RUN output	
Dimensions	70 (W) x 170 (H) x 370 (D) mm / 2.8 (W) x 6.7 (H) x 14.6 (D) in.	
Weight	3 kg, 6.6 lb	
Power Supply	AC 100, 120, 220, 240V, 50/60 Hz, 2A	
Ambient Temperature	4 – 35 degrees C (without dew condensation)	

NB 1) 3F, Sapphire, Ruby, Teflon, ETFE
 NB 2) 3F, Alumina, Sapphire, Ruby, Teflon, ETFE

The specifications are subject to change without prior notice.

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