

Micro Pumps

uf-7000B2 Series

uf-7000B2 series is the plunger type pump directly driven by micro stepping motor by means of ball screw. 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	7000SZWB2	7000SZSWB2	7000PSWB2	7000PSSWB2	7002SZB2	7002SZSB2
General Application	Analytical					
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	
Accuracy	+/- 3% (0.1 mL/min -)					
Reproducibility	0.2 % or less (0.1 mL/min)					
Volume/Stroke (μL)	31.6	15.8	31.6	15.8	63.3	15.8
Max. Output Pressure (MPa)	20	10	20	10	20	10
Liquid Contact Parts	NB 1		NB 2		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	7002PSB2	7002PSSB2	7005SZB2	7005PSB2	7010SZB2	7010PSB2
General Application	Analytical		Analytical & preparative works			
Feed Method	Stepping motor, ball screw driven, single plunger					
Mode	Constant flow rate					
Flow rate mL/min	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 -)					
Reproducibility	0.2 % or less (0.1 mL/min)		0.2 % or less (1 mL/min)			
Volume/Stroke (μL)	63.3	15.8	135		308	
Max. Output Pressure (MPa)	20	10	20	15	8	5
Liquid Contact Parts	NB 2		NB 1	NB 2	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)					

SANWA TSUSHO Co., Ltd.

Model	7020SZB2	7020PSB2	7050SAB2	7050PAB2
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)	4	3	1.5	1.2
Liquid Contact Parts	NB 1	NB 2	NB 3	NB 4
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) SUS316, Zirconia, PEEK, Sapphire, Ruby, Teflon, ETFE
 NB 2) PEEK, Sapphire, Ruby, Teflon, ETFE
 NB 3) SUS316, Alumina, PEEK, Sapphire, Ruby, Teflon, ETFE
 NB 4) PEEK, Alumina, Sapphire, Ruby, Teflon, ETFE

The specifications are subject to change without prior notice.

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