

**Micro Pumps**

**uf-3000 B2 Series**

uf-3000B2 series is the plunger type pump directly driven by micro stepping motor by means of ball screw. With the pressure sensor, drain valve and pulse damper built in, the micro pump will provide a stable liquid feeding with minimized pulsation in constant flow rate or constant pressure mode.

**Specifications :**

Model	3001SZWB2	3001PSWB2	3005SZB2	3005PSB2	3010SZB2	3010PSB2
General Application	Analytical				Analytical & preparative works	
Feed Method	Stepping motor and ball screw driven, dual plunger					
Mode	Constant flow rate & constant pressure flow					
Flow rate mL/min	0.001 – 0.999, 0.001 step		0.01 – 5.00, 0.01 step		0.01 – 9.99, 0.01 step	
Accuracy	+/- 2% (0.1 mL/min - )		+/- 2% (0.3 mL/min - )			
Reproducibility	0.2% or less (0.1 mL/min)		0.2% or less (1 mL/min)			
Volume/Stroke (µL)	31.6		63.3		135	
Setting Pressure Range (MPa)	0.2 – 19.8 0.2 step				0.2 – 19.8	0.2 – 15.0
Liquid Contact Parts	NB 1	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 and pressure settings, Pump RUN/STOP input, Pressure limiter reset input, Pressure monitor output, Pump RUN output, Pressure limiter output					
Dimensions	105 (W) x 170 (H) x 370 (D) mm / 4.2 (W) x 6.7 (H) x 14.6 (D) in.					
Weight	5 kg, 11 lb					
Power Supply	AC 100, 120, 220, 240V, 50/60 Hz, 2A					
Ambient Temperature	4 – 35 degrees C (without dew condensation)					

Model	3020SZB2	3020PSB2	3040SZB2	3040PSB2	3080SAB2	3080PAB2
General Application	Middle pressure preparative works					
Feed Method	Stepping motor and ball screw driven, dual plunger					
Mode	Constant flow rate & constant pressure flow					
Flow rate mL/min	0.1 – 20.0, 0.1 step		0.1 – 40.0, 0.1 step		0.1 – 80.0, 0.1 step	
Accuracy	+/- 3%					
Reproducibility	1% or less (10 mL/min)					
Volume/Stroke (µL)	308		570		1,230	
Setting Pressure Range (MPa)	0.1 – 8.0	0.1 – 5.0	0.1 – 4.0	0.1 – 3.0	0.1 – 1.5	0.1 – 1.2
Liquid Contact Parts	NB 1	NB 2	NB 1	NB 2	NB 3	NB 4
Inner Cleaning of Plunger Seal	Available					
Input/Output	Through DC voltage, external input of flow rate and pressure settings, Pump RUN/STOP input, Pressure limiter reset input, Pressure monitor output, Pump RUN output, Pressure limiter output					
Dimensions	105 (W) x 170 (H) x 370 (D) mm / 4.2 (W) x 6.7 (H) x 14.6 (D) in.					
Weight	5 kg, 11 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.*

(14.May. 2003)