Z-Series Instrument Ready Pumps

FEATURES

>

- > Electronic air displacement pipetting modules
- > Exceptional precision and accuracy

CUSTOMER REQUIREMENTS

Drive Recommendations

> Can be configured for mounting to a robotic arm

rates.

BASE MODEL

TRICONTINENT

by Gardner Denver

200 μL

1000 μL

2000 μL

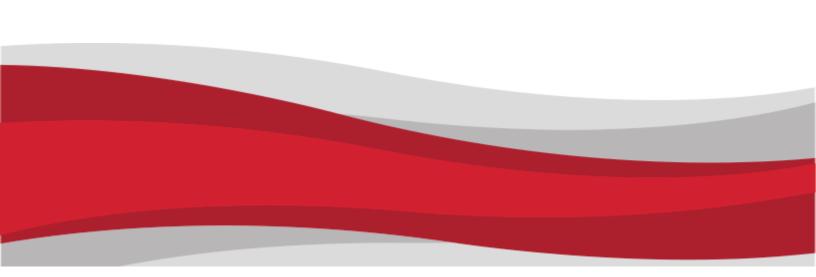
 $5000 \, \mu L$



CONFIGURED OPTIONS

> Available in 200 μL, 1000 μL, 2000 μL and 5000 μL

(Shown with optional Tip Adapter and Tip)



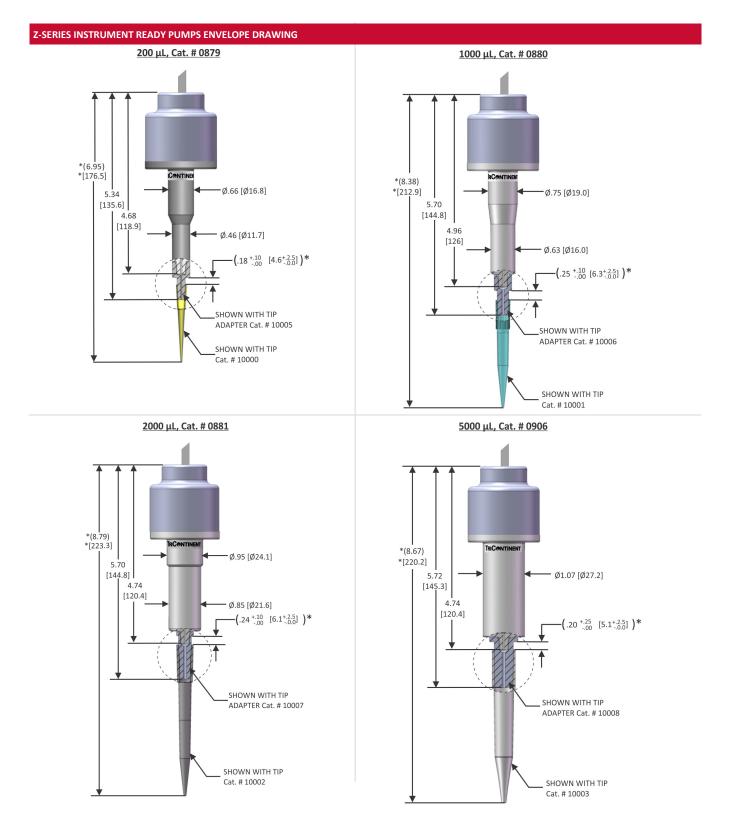
Pump should typically be driven with a 24 VDC

bipolar chopper drive, ½ step, at rated current. Higher voltage may be required at higher step

SPECIFICATIONS					
	200 μL Cat. # 0879	1000 μL Cat. # 0880	2000 μL Cat. # 0881	5000 μL Cat. # 0906	
Tip Adapter Cat. #	10005	10006	10007	10008	
Disposable Tip Cat. #	10000 (96/rack)	10001 (100/rack)	10002 (60/rack)	10003 (24/rack)	
Step Resolution Per Full Step Per Half Step	0.381 μL 0.191 μL	1.527 μL 0.763 μL	3.808 μL 1.904 μL	7.616 μL 3.808 μL	
Weight Z-Pump without Tip Adapter Z-Pump with Tip Adapter Z-Pump with Tip Adapter and Tip	4.00 oz [113.4 gm] 4.32 oz [122.5 gm] 4.33 oz [122.8 gm]	4.47 oz [126.7 gm] 4.88 oz [138.3 gm] 4.91 oz [139.2 gm]	4.57 oz [129.6 gm] 4.95 oz [140.3 gm] 5.00 oz [141.8 gm]	4.96 oz [140.6 gm] 6.08 oz [172.4 gm] 6.16 oz [174.6 gm]	
Syringe Data Bore Stroke	0.1721 in. [4.37 mm] 0.709 in. [18.00 mm]	0.3441in. [8.74 mm] 0.709 in. [18.00 mm]	0.5441 in. [13.82 mm] 0.709 in. [18.00 mm]	0.7694 in. [19.54 mm] 0.709 in. [18.00 mm]	
Fluid Contact Materials (in case of accidental fluid aspiration)	Acetal, PTFE, Silicone Lubricant, Buna N, Neoprene, Borosilicate Glass and Stainless Steel				

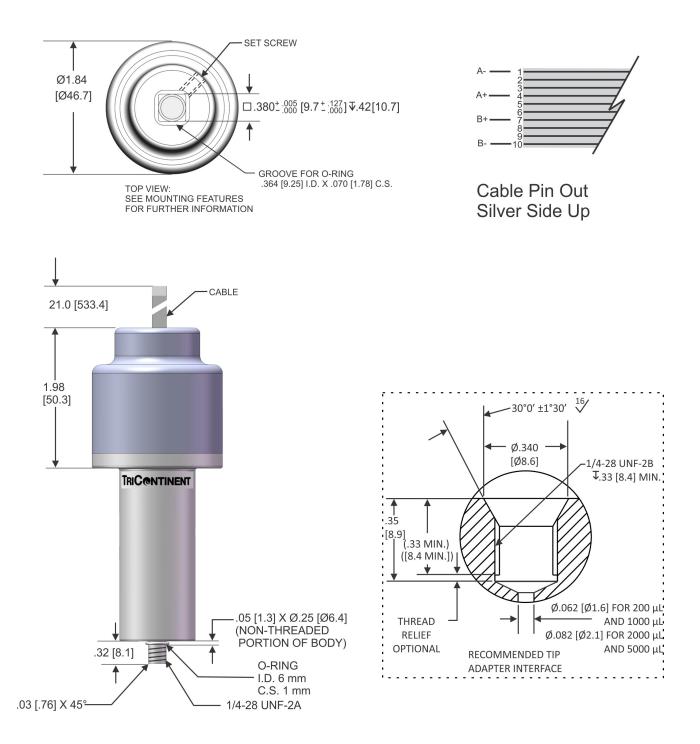
FUNCTIONAL PARAMETERS					
Performance (at full volume) with tip adapter and tip noted above Accuracy within Precision within	± 3% 1%				
Motor/Leadscrew Data Travel/Full Step Travel/Half Step Resistance/Phase Inductance/Phase Rated Current Rated Voltage	0.001 in. [0.0254 mm] 0.0005 in. [0.0127 mm] 14.7 Ω 8.5 mH 0.34 A 5.0 V				

accidental fluid aspiration)



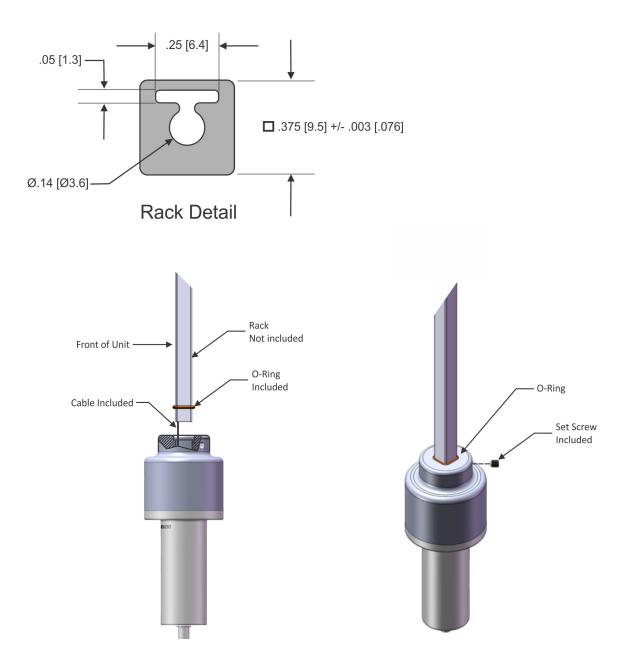
*Note: Each tip is designed to seal within the reference gap dimension shown. Customers should perform their own testing to determine optimum force/location for sealing and tip stripping.

Dimensions/Features noted are typical for any size, Z-Series Pump (5000 µl shown)



Note: Dimensions in inches [mm] unless otherwise specified.

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AIR DISPLACEMENT PUMP SOLUTIONS FOR OEMS WORLDWIDE

TriContinent by Gardner Denver

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