250Z Series



FEATURES

- > Pressure or vacuum capability
- > Oil-less operation
- > Efficient brushless DC motor
- > Variable speed output
- > Proven WOB-L piston technology
- > High performance piston seal
- > Die-cast aluminium and Magnesium components
- > Thin wall, hard coated aluminum piston cylinder
- > Epoxy coated wetted parts
- > Designed and tested per Agency standards
- > RoHS and REACH compliant

TYPICAL APPLICATIONS

- > Portable Oxygen Concentrator
- > Small Analytical Equipment
- > Fuel Atomization
- > Ambient Scenting
- > Lab Automation

CUSTOMER REQUIREMENTS

- > Supplemental cooling air flow to compressor to be integrated into thermal management system to ensure that proper installation and operating environment is maintained in keeping with the product specifications
- >BLDC motor requires a motor controller optional Thomas controller, SKCNTLR, available in sample quantities



250ZC35/24







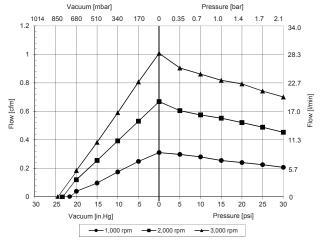
250Z Series

Flow	1.00 cfm (28.3 l/min)
Max. pressure	30 psi (2.1 bar)
Max. vacuum	82% local barometer









250 Vacuum/Pressure Flow Curve

PERFORMANCE DATA	T16-0381, T17-0200		
Model number	250ZC35/24		
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Head configuration	Pressure/Vacuum		
Stroke	0.35 in. (8.9 mm)		
Nominal voltage input	24V DC	24V DC	24V DC
Variable output speed	1,000 rpm	2,000 rpm	3,000 rpm
Max. open air flow	0.31 cfm (8.7 l/min)	0.67 cfm (19.0 l/min)	1.00 cfm (28.3 l/min)
Max. rated pressure	30 psi (2.1 bar)	30 psi (2.1 bar)	30 psi (2.1 bar)
Current at rated pressure	1.3A	2.3A	3.5A
Power at rated pressure	31W	55W	83W
Max. pressure restart	30 psi (2.1 bar)	30 psi (2.1 bar)	30 psi (2.1 bar)
Max. vacuum	73% local barometer	80% local barometer	82% local barometer
Max. vacuum restart	73% local barometer	80% local barometer	82% local barometer

ELECTRICAL DATA

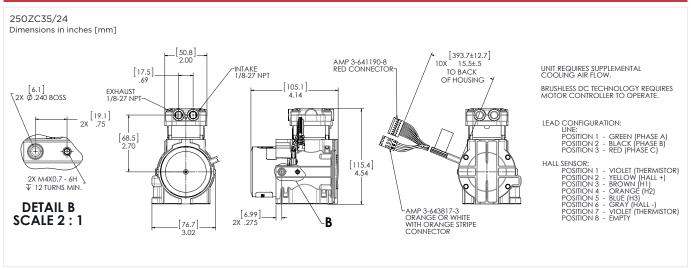
Motor type	10 pole brushless DC, 3 phase
Motor insulation class	F
Motor protection	Thermally protected via customer hook-up of thermistor leads
	Optional SKCNTLR Thomas controller disables motor for stall, amps
Power lead wire color, gauge	Green (phase A), black(phase B), red (phase C), 18 AWG
Hall sensor wire color, gauge	Yellow (Hall+), brown (HS1), orange (HS2), blue (HS3), gray (Hall -), 22 AWG
Thermistor wire color, gauge	Violet (Thermistor), 22 AWG

GENERAL DATA

Operating ambient temperature	50° TO 104° F (10° to 40 °C)*
Safety certification	Consult factory
Net weight	2.40 lbs (1.08 kg)

^{*}Broader ambient operating ranges may be possible depending on your specific application. Please consult factory regarding your particular system needs.

PRODUCT DIMENSIONS



PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE

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