

260Z Series

THOMAS
by Gardner Denver

FEATURES

- > Unique head/cylinder design
- > Oil-less operation
- > Permanently lubricated bearings
- > Stainless steel valves
- > Pressure or Vacuum Capability
- > High performance piston seal
- > Die-cast aluminum components
- > Thin wall, hard coated aluminum cylinder
- > Wetted parts treated for corrosion resistance
- > Dynamically balanced
- > Designed and tested per Agency standards
- > Brushless DC motor
- > RoHS compliant

TYPICAL APPLICATIONS

- > Portable Oxygen Concentrator
- > Small Analytical Equipment
- > Instrumentation
- > 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 motor controller - SKCNTLR optional Thomas controller available in sample quantities

BASE MODEL

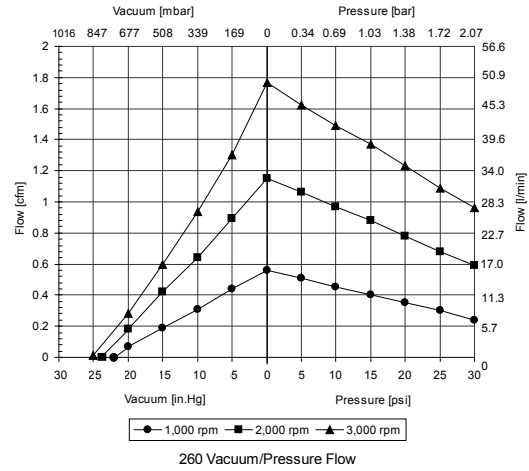
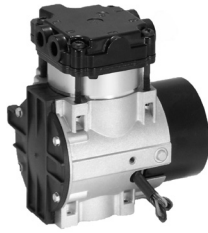
260ZC35/24



WOB-L

260Z Series

Flow	1.77 cfm (50.1 l/min)
Max. pressure	30 psi (2.1 bar)
Max. vacuum	87% local barometer



PERFORMANCE DATA

Model Number	260ZC35/24		
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	0.56 cfm (15.9 l/min)	1.15 cfm (32.6 l/min)	1.77 cfm (50.1 l/min)
Max. rated pressure	30 psi (2.1 bar)	30 psi (2.1 bar)	30 psi (2.1 bar)
Current at rated pressure	3.3A	4.8A	6.0A
Power at rated pressure	79W	115W	143W
Max. pressure restart	30 psi (2.1 bar)	30 psi (2.1 bar)	30 psi (2.1 bar)
Max. vacuum	23.8 in Hg (806 mbar)	24.7 in Hg (836 mbar)	25.5 in Hg (864 mbar)
Max. vacuum restart	23.8 in Hg (806 mbar)	24.7 in Hg (836 mbar)	25.5 in Hg (864 mbar)

ELECTRICAL DATA

Motor Type	10 Pole BLDC
Motor Insulation class	F
Motor protection	Thermally protected
	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	2.78 lbs (1.26 kg)

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

PRODUCT DIMENSIONS

260ZC35/24

Dimensions in in./[mm].

EXHAUST 1/8-27 NPT

INTAKE 1/8-27 NPT

WARRANTY

10X 15.5±.50 TO BACK OF HOUSING

AMP 3-641190-8 RED CONNECTOR

AMP 3-640426-3 ORANGE CONNECTOR

LEAD CONFIGURATION:
LINE:
POSITION 1 - GREEN (PHASE A)
POSITION 2 - BLACK (PHASE B)
POSITION 3 - RED (PHASE C)

HALL SENSOR:
POSITION 1 - VIOLET (THERMISTOR)
POSITION 2 - YELLOW (HALL +)
POSITION 3 - BROWN (H1)
POSITION 4 - ORANGE (H2)
POSITION 5 - BLUE (H3)
POSITION 6 - GRAY (HALL -)
POSITION 7 - VIOLET (THERMISTOR)
POSITION 8 - EMPTY

UNIT REQUIRES SUPPLEMENTAL COOLING AIR FLOW.
BRUSHLESS DC TECHNOLOGY REQUIRES MOTOR CONTROLLER TO OPERATE.

DETAIL B
SCALE 2 : 1

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