

2320Z Series

THOMAS
by Gardner Denver

FEATURES

- > Efficient brushless DC motor
- > 100-115V 50/60Hz AC voltage input
- > Variable speed output
- > Pressure or vacuum capability
- > Proven WOB-L piston technology
- > Versatility and ease of plumbing unit
- > Durable die-cast aluminium components
- > Small, compact size and lightweight
- > Wetted parts treated for corrosion resistance
- > Designed and tested per Agency standards
- > Field serviceable
- > RoHS/REACH compliant

TYPICAL APPLICATIONS

- > Oxygen Concentrator
- > Blood Analyzer
- > Respiratory Therapy
- > Medical Equipment
- > Dental Equipment

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 - SKCNTLRAC Thomas controller available in sample quantities
- > Motor protection to be integrated into system controller

BASE MODEL

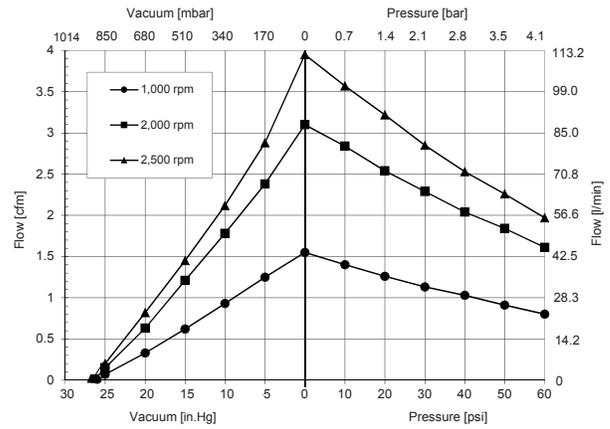
2320ZC36



WOB-L

2320Z Series

| | |
|---------------|------------------------|
| Flow | 3.95 cfm (111.9 l/min) |
| Max. pressure | 60 psi (4.1 bar) |
| Max. vacuum | 90% local barometer |



2320ZC36 Vacuum/Pressure Flow Curve
(at 115V AC input into Thomas SKCNTLRAC controller)

Note: BLDC motor designed for 140V DC nominal. Recommended AC input range: 100-115V 50/60Hz. Consult factory for more information.

PERFORMANCE DATA

T17-0377

| | | | |
|---------------------------|---|-----------------------|------------------------|
| Model number | 2320ZC36 | | |
| Head configuration | Pressure/Vacuum | | |
| Stroke | 0.36 in. (9.14 mm) | | |
| Nominal voltage input | 115V 60Hz AC input into optional Thomas controller (Note: Performance will vary with controller design) | | |
| Variable output speed | 1,000 rpm | 2,000 rpm | 2,500 rpm |
| Max. open air flow | 1.55 cfm (43.9 l/min) | 3.10 cfm (87.8 l/min) | 3.95 cfm (111.9 l/min) |
| Max. rated pressure | 60 psi (4.1 bar) | 60 psi (4.1 bar) | 60 psi (4.1 bar) |
| Current at rated pressure | 3.2A | 5.2A | 6.3A |
| Power at rated pressure | 180W | 310W | 385W |
| Max. pressure restart | 30 psi (2.1 bar) | 30 psi (2.1 bar) | 30 psi (2.1 bar) |
| Max. vacuum | 90% local barometer | 90% local barometer | 90% local barometer |
| Max. vacuum restart | 90% local barometer | 90% local barometer | 90% local barometer |

ELECTRICAL DATA

| | |
|------------------------------------|---|
| Motor type | 8 pole brushless DC, 3 phase |
| Motor insulation class | F |
| Motor protection | Not included - Customer to integrate into system controller |
| | Optional SKCNTLRAC Thomas controller disables motor for over current protection and stall |
| Power lead wire color, gauge | Black, red, green, (Phase leads) 18 AWG |
| Hall sensor (HS) wire color, gauge | Yellow (+VDC), blue (HS), brown (HS), orange (HS), gray (ground), 22 AWG |

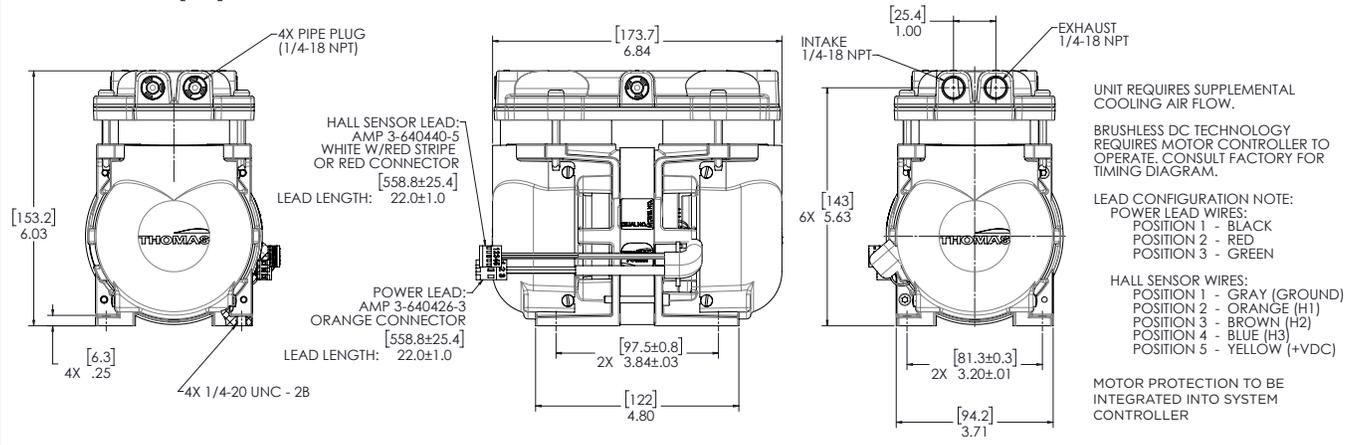
GENERAL DATA

| | |
|-------------------------------|-------------------------------|
| Operating ambient temperature | 50° TO 104° F (10° to 40° C)* |
| Safety certification | Consult factory |
| Net weight | 7.5 lbs (3.4 kg) |

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

PRODUCT DIMENSIONS

2320ZC36
Dimensions in inches [mm]



PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE

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The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for the intended use and the user assumes all risk and liability in connection there with. Thomas does not warrant, guarantee or assume any obligation or liability in connection with this information.

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