

COMPRESSOR DATA SHEET
Rotary Compressor: Variable Frequency Drive

| MODEL DATA - FOR COMPRESSED AIR | | | |
|---------------------------------|--|--------------------------------|---|
| 1 | Manufacturer: Kaeser Compressors, Inc. | | |
| 2 | Model Number: SFC 315 - 175 psig / 460V/3ph/60Hz | Date: | 11/4/2011 |
| | <input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled | Type: | Screw |
| | <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free | # of Stages: | 1 |
| 3 | Rated Operating Pressure | 175 | psig ^b |
| 4 | Drive Motor Nominal Rating | 450 | hp |
| 5 | Drive Motor Nominal Efficiency | 96.3 | percent |
| 6 | Fan Motor Nominal Rating (if applicable) | 0.4 | hp |
| 7 | Fan Motor Nominal Efficiency | 75 | percent |
| 8* | Input Power (kW) | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 368.2 | Max | 1652.7 |
| | 261.8 | | 1243.1 |
| | 187.5 | | 858.2 |
| | 139.3 | | 603.9 |
| | 91.1 | Min | 335.5 |
| 9* | Total Package Input Power at Zero Flow ^{c,d} | | 0.0 kW |
| 10 | <p align="center">Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, +5kW/100acfm increments if necessary above 35 X-Axis Scale, 0 to 25% over maximum capacity</p> | | |

*For models that are tested in the CAGI Performance Verification Program, these items are verified by program administrator. Consult CAGI website for a list of participants in the third party verification program: www.cagi.org

- NOTES:
- Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; acfm is actual cubic feet per minute at inlet conditions.
 - The operating pressure at which the Capacity and Electrical Consumption were measured for this data sheet.
 - No Load Power. In accordance with ISO 1217, Annex E, if measurement of no load power equals less than 1%, manufacturer may state "not significant" or "0" on the test report.
 - Tolerance is specified in ISO 1217, Annex E, as shown in table below:
 NOTE: The terms "power" and "energy" are synonymous for purposes of this document.



| Volume Flow Rate at specified conditions | | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|--|-----------------------|------------------|-----------------------------|---------------------------|
| m ³ / min | ft ³ / min | % | % | |
| Below 0.5 | Below 15 | +/- 7 | +/- 8 | +/- 10% |
| 0.5 to 1.5 | 15 to 50 | +/- 6 | +/- 7 | |
| 1.5 to 15 | 50 to 500 | +/- 5 | +/- 6 | |
| Above 15 | Above 500 | +/- 4 | +/- 5 | |

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