

COMPRESSOR DATA SHEET
Rotary Compressor: Variable Frequency Drive



MODEL DATA - FOR COMPRESSED AIR

| | | | |
|----|---|--------------------------------|---|
| 1 | Manufacturer: ELGi | | |
| 2 | Model Number: EG 90V -125 | Date: | 03/13/2018 |
| | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled | Type: | SCREW |
| | <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free | # of Stages: | 1 |
| 3 | Rated Operating Pressure | 125 | psig ^b |
| 4 | Drive Motor Nominal Rating | 125 | hp |
| 5 | Drive Motor Nominal Efficiency | 95.4 | percent |
| 6 | Fan Motor Nominal Rating (if applicable) | 2.1 | hp |
| 7 | Fan Motor Nominal Efficiency | NA | percent |
| 8* | Input Power (kW) | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 109.2 Max | 536.0 | 20.38 |
| | 100.9 | 495.0 | 20.40 |
| | 86.8 | 421.0 | 20.61 |
| | 72.6 | 347.0 | 20.93 |
| | 61.2 | 289.0 | 21.17 |
| | 49.8 Min | 231.0 | 21.51 |
| 9* | Total Package Input Power at Zero Flow ^{c, d} | 0.00 | kW |
| 10 | <p>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 |
|--|-----------------------------|------------------|-----------------------------|---------------------------|
| <u>m³ / min</u> | <u>ft³ / min</u> | % | % | |
| 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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