

COMPRESSOR DATA SHEET



In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

| MODEL DATA - FOR COMPRESSED AIR | | | |
|---------------------------------|--|--------------------------------|---|
| 1 | Manufacturer: ELGi | | |
| 2 | Model Number: EG 250 V-115 | | Date: 06/04/2021 |
| | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled | Type: SCREW | |
| | # of Stages: 1 | | |
| 3* | Full Load Operating Pressure ^b | 115 | psig ^b |
| 4 | Drive Motor Nominal Rating | 300 | hp |
| 5 | Drive Motor Nominal Efficiency | 96.2 | percent |
| 6 | Fan Motor Nominal Rating (if applicable) | 1.88 X 3 | hp |
| 7 | Fan Motor Nominal Efficiency | NA | percent |
| 8* | Input Power (kW) | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 257.7 | 1371.0 | 18.80 |
| | 222.6 | 1187.0 | 18.75 |
| | 187.1 | 969.0 | 19.30 |
| | 169.3 | 863.0 | 19.61 |
| | 142.6 | 704.0 | 20.25 |
| 9* | Total Package Input Power at Zero Flow ^{c, d} | 0.00 | kW |
| | 10 | Isentropic Efficiency | 73.66 % |
| 11 | <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 the third party administrator website for a list of participants in the third party verification program: www.cagi.org



- a. 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.
- b. The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
- c. 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.
- d. 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.

Member

| 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 17.6 | +/- 7 | +/- 8 | |
| 0.5 to 1.5 | 17.6 to 53 | +/- 6 | +/- 7 | |
| 1.5 to 15 | 53 to 529.7 | +/- 5 | +/- 6 | +/- 10% |
| Above 15 | Above 529.7 | +/- 4 | +/- 5 | |

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