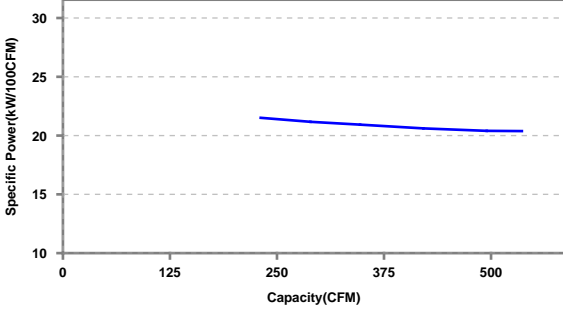


## COMPRESSOR DATA SHEET

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

**Rotary Compressor: Variable Frequency Drive**

| MODEL DATA - FOR COMPRESSED AIR |   |                                |  |
|---------------------------------|---|--------------------------------|--|
| 1                               | Manufacturer: <b>ELGi</b>   |                                |  |
| 2                               | Model Number: <b>EG 90V -125</b>  |                                | Date: <b>06/26/2020</b>                      |
|                                 | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled  |                                | Type: <b>SCREW</b>                           |
|                                 |   |                                | # of Stages: <b>1</b>                        |
| 3*                              | Full Load Operating Pressure <sup>b</sup>   | <b>125</b>                     | psig <sup>b</sup>                            |
| 4                               | Drive Motor Nominal Rating  | <b>125</b>                     | hp   |
| 5                               | Drive Motor Nominal Efficiency  | <b>95.4</b>                    | percent                                      |
| 6                               | Fan Motor Nominal Rating (if applicable)  | <b>2.1</b>                     | hp   |
| 7                               | Fan Motor Nominal Efficiency  | <b>NA</b>                      | percent                                      |
| 8*                              | Input Power (kW)  | Capacity (acfm) <sup>a,d</sup> | Specific Power<br>(kW/100 acfm) <sup>d</sup> |
|                                 | <b>109.2</b>  | <b>536.0</b>                   | <b>20.38</b>                                 |
|                                 | <b>100.9</b>  | <b>495.0</b>                   | <b>20.40</b>                                 |
|                                 | <b>86.8</b>   | <b>421.0</b>                   | <b>20.61</b>                                 |
|                                 | <b>72.6</b>   | <b>347.0</b>                   | <b>20.93</b>                                 |
|                                 | <b>61.2</b>   | <b>289.0</b>                   | <b>21.17</b>                                 |
| 9*                              | Total Package Input Power at Zero Flow <sup>c, d</sup>  | <b>0.00</b>                    | kW   |
| 10                              | Isentropic Efficiency   | <b>71.85</b>                   | %  |
| 11                              |  <p style="font-size: small; text-align: center;">                     Note: Graph is only a visual representation of the data in Section 8<br/>                     Note: Y-Axis Scale, 10 to 35, +5kW/100acfm increments if necessary above 35<br/>                     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](http://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<br>at specified conditions |                       | Volume Flow Rate | Specific Energy<br>Consumption | No Load /<br>Zero Flow<br>Power |
|---|-----------------------|------------------|--------------------------------|---------------------------------|
| m <sup>3</sup> / min                        | ft <sup>3</sup> / 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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