

## COMPRESSOR DATA SHEET

**Federal Uniform Test Method for Certain Air Compressors Not Applicable**

**Rotary Compressor: Fixed Speed**

### MODEL DATA - FOR COMPRESSED AIR

|     |  |  |                         |
|-----|--|--|-------------------------|
| 1   | Manufacturer: <b>ELGi</b>  |  |                         |
| 2   | Model Number: <b>OF90A-100</b>   |  | Date: <b>06/26/2020</b> |
|     | <input checked="" type="checkbox"/> Air-cooled   | <input type="checkbox"/> Water-cooled        | Type: <b>SCREW</b>      |
|     | <input type="checkbox"/> Oil-injected  | <input checked="" type="checkbox"/> Oil-free | # of Stages: <b>2</b>   |
| 3*  | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                               | <b>549</b>                                   | acfm <sup>a, e</sup>    |
| 4   | Full Load Operating Pressure <sup>b</sup>  | <b>100</b>                                   | psig <sup>b</sup>       |
| 5   | Maximum Full Flow Operating Pressure <sup>c</sup>  | <b>103</b>                                   | psig <sup>c</sup>       |
| 6   | Drive Motor Nominal Rating   | <b>150</b>                                   | hp                      |
| 7   | Drive Motor Nominal Efficiency   | <b>95</b>                                    | percent                 |
| 8   | Fan Motor Nominal Rating (if applicable)   | <b>2.1 x 2</b>                               | hp                      |
| 9   | Fan Motor Nominal Efficiency   | <b>NA</b>                                    | percent                 |
| 10* | Total Package Input Power at Zero Flow <sup>e</sup>  | <b>34.50</b>                                 | kW <sup>e</sup>         |
| 11  | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>    | <b>113.19</b>                                | kW <sup>d</sup>         |
| 12* | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> | <b>20.62</b>                                 | kW/100 cfm <sup>e</sup> |

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

NOTES:

- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
- c. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
- d. Total package input power at other than reported operating points will vary with control strategy.
- e. Tolerance is specified in ISO 1217, Annex C, 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 |
|---|--------------|------------------|--------------------------------|---------------------------------|
| $m^3 / min$                                 | $ft^3 / min$ | %                | %                              | %                               |
| Below 0.5                                   | Below 17.6   | +/- 7            | +/- 8                          | +/- 10%                         |
| 0.5 to 1.5                                  | 17.6 to 53   | +/- 6            | +/- 7                          |                                 |
| 1.5 to 15                                   | 53 to 529.7  | +/- 5            | +/- 6                          |                                 |
| Above 15                                    | Above 529.7  | +/- 4            | +/- 5                          |                                 |

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