

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>Gardner Denver</b>   |                                       |                                |   |
| 2                               | Model Number: <b>L18RS-25hp-110psi</b>  |                                       | Date:                          | <b>08/28/23</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>110</b>                     | psig <sup>b</sup>                         |
| 4                               | Drive Motor Nominal Rating  |                                       | <b>25</b>                      | hp  |
| 5                               | Drive Motor Nominal Efficiency  |                                       | <b>91.7</b>                    | percent                                   |
| 6                               | Fan Motor Nominal Rating (if applicable)  |                                       | <b>NA</b>                      | hp  |
| 7                               | Fan Motor Nominal Efficiency  |                                       | <b>NA</b>                      | percent                                   |
| 8*                              | Input Power (kW)  |                                       | Capacity (acfm) <sup>a,d</sup> | Specific Power (kW/100 acfm) <sup>d</sup> |
|                                 | 22.83   |                                       | <b>106.4</b>                   | <b>21.46</b>                              |
|                                 | 19.20   |                                       | <b>90.1</b>                    | <b>21.30</b>                              |
|                                 | 15.74   |                                       | <b>73.5</b>                    | <b>21.41</b>                              |
|                                 | 13.55   |                                       | <b>62.4</b>                    | <b>21.74</b>                              |
|                                 | 11.45   |                                       | <b>51.1</b>                    | <b>22.41</b>                              |
|                                 | 10.56   |                                       | <b>46.2</b>                    | <b>22.88</b>                              |
| 9*                              | Total Package Input Power at Zero Flow <sup>c, d</sup>  |                                       | <b>3.4</b>                     | <b>kW</b>                                 |
| 10                              | Isentropic Efficiency   |                                       | <b>64.10</b>                   | <b>%</b>                                  |
| 11                              | <p>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  
 Consult CAGI 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 at specified conditions |                       | Volume Flow Rate | Specific Energy Consumption | Zero Flow 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                       | +/- 10%         |
| 1.5 to 15                                | 53 to 529.7           | +/- 5            | +/- 6                       |                 |
| Above 15                                 | Above 529.7           | +/- 4            | +/- 5                       |                 |

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12/19 Rev 3 This form was developed by the Compressed Air and Gas Institute for the use of its members participating in the PVP. CAGI has not independently verified the reported data.