



## COMPRESSOR DATA SHEET

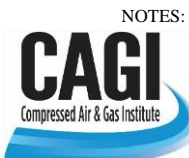
In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

### MODEL DATA - FOR COMPRESSED AIR

|    |                                                                                                                                                                                                                                                                                                    |                                       |                                           |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------|
| 1  | Manufacturer: <b>Kaishan Compressor USA</b>                                                                                                                                                                                                                                                        |                                       |                                           |
| 2  | Model Number: <b>KRSP-125-100 VSD</b>                                                                                                                                                                                                                                                              |                                       | Date: <b>08/30/20</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>100</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>5</b>                              | hp                                        |
| 7  | Fan Motor Nominal Efficiency                                                                                                                                                                                                                                                                       | <b>89.5</b>                           | percent                                   |
| 8* | Input Power (kW)                                                                                                                                                                                                                                                                                   | Capacity (acfm) <sup>a,d</sup>        | Specific Power (kW/100 acfm) <sup>d</sup> |
|    | 123.5                                                                                                                                                                                                                                                                                              | <b>632</b>                            | <b>19.54</b>                              |
|    | 82.9                                                                                                                                                                                                                                                                                               | <b>442</b>                            | <b>18.76</b>                              |
|    | 59.9                                                                                                                                                                                                                                                                                               | <b>316</b>                            | <b>18.96</b>                              |
|    | 49.4                                                                                                                                                                                                                                                                                               | <b>253</b>                            | <b>19.53</b>                              |
| 9* | Total Package Input Power at Zero Flow <sup>c, d</sup>                                                                                                                                                                                                                                             | <b>0.0</b>                            | kW                                        |
| 10 | Isentropic Efficiency                                                                                                                                                                                                                                                                              | <b>69.44</b>                          | %                                         |
| 11 | <p style="text-align: center; font-size: small;"> <b>Note: Graph is only a visual representation of the data in Section 8</b><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)



Member

- NOTES:
- 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.

| Volume Flow Rate at specified conditions |                       | Volume Flow Rate | Specific Energy Consumption | No Load / 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                       |                           |

ROT 031.1