



## COMPRESSOR DATA SHEET

Federal Uniform Test Method for Certain Air Compressors Not Applicable

Rotary Compressor: Variable Frequency Drive

### MODEL DATA - FOR COMPRESSED AIR

|       |  |                                       |  |
|-------|--|---------------------------------------|--|
| 1     | Manufacturer: <b>Kaishan Compressor USA</b>  |                                       |  |
| 2     | Model Number: <b>KRSP2-350-100 VSD</b>   |                                       | Date: <b>07/12/21</b>                        |
|       | <input checked="" type="checkbox"/> Air-cooled   | <input type="checkbox"/> Water-cooled | Type: <b>Screw</b>                           |
|       | <input checked="" type="checkbox"/> Lubricated   | <input type="checkbox"/> Oil Free     | # of Stages: <b>2</b>                        |
| 3*    | Full Load Operating Pressure <sup>b</sup>  | <b>100</b>                            | psig <sup>b</sup>                            |
| 4     | Drive Motor Nominal Rating   | <b>350</b>                            | hp   |
| 5     | Drive Motor Nominal Efficiency   | <b>96.2</b>                           | percent                                      |
| 6     | Fan Motor Nominal Rating (if applicable)   | <b>15&amp;4</b>                       | hp   |
| 7     | Fan Motor Nominal Efficiency   | <b>91.7&amp;89.1</b>                  | percent                                      |
| 8*    | Input Power (kW)   | Capacity (acfm) <sup>a,d</sup>        | Specific Power<br>(kW/100 acfm) <sup>d</sup> |
|       | 324.1  | <b>1964</b>                           | <b>16.50</b>                                 |
|       | 230.1  | <b>1375</b>                           | <b>16.73</b>                                 |
|       | 200.9  | <b>1178</b>                           | <b>17.05</b>                                 |
|       | 171.8  | <b>982</b>                            | <b>17.49</b>                                 |
| 139.4 | <b>786</b>   | <b>17.74</b>                          |  |
| 9*    | Total Package Input Power at Zero Flow <sup>c, d</sup>   |                                       | kW   |
| 10    | Isentropic Efficiency  | <b>78.57</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)

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                       | +/- 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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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.