



## 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>KRSD-200-125 VSD</b>  |                                       | Date: <b>06/30/20</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>125</b>                            | psig <sup>b</sup>                         |
| 4    | Drive Motor Nominal Rating   | <b>200</b>                            | hp  |
| 5    | Drive Motor Nominal Efficiency   | <b>95.4</b>                           | percent                                   |
| 6    | Fan Motor Nominal Rating (if applicable)   | <b>(4) 1.0</b>                        | hp  |
| 7    | Fan Motor Nominal Efficiency   | <b>83.5</b>                           | percent                                   |
| 8*   | Input Power (kW)   | Capacity (acfm) <sup>a,d</sup>        | Specific Power (kW/100 acfm) <sup>d</sup> |
|      | 175.3  | <b>878</b>                            | <b>19.97</b>                              |
|      | 121.1  | <b>610</b>                            | <b>19.85</b>                              |
|      | 104.0  | <b>527</b>                            | <b>19.73</b>                              |
|      | 90.1   | <b>439</b>                            | <b>20.52</b>                              |
| 74.3 | <b>351</b>   | <b>21.17</b>                          |   |
| 9*   | Total Package Input Power at Zero Flow <sup>c, d</sup>   | <b>0.0</b>                            | <b>kW</b>                                 |
| 10   | Isentropic Efficiency  | <b>74.31</b>                          | <b>%</b>                                  |
| 11   | <p style="font-size: small; text-align: center;"> <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 |
|--|--------------|------------------|-----------------------------|---------------------------|
| $m^3 / min$                              | $ft^3 / min$ | %                | %                           | %                         |
| 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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