



# 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>KROF-300-125 VSD</b>                                                                                                                                                                                           |                                | Date: <b>06/05/26</b>                     |
|    | <input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled                                                                                                                                            | Type:                          | <b>Screw</b>                              |
|    | <input type="checkbox"/> Lubricated <input checked="" type="checkbox"/> Oil Free                                                                                                                                                | # of Stages:                   | <b>2</b>                                  |
| 3* | Full Load Operating Pressure <sup>b</sup>                                                                                                                                                                                       | <b>125</b>                     | psig <sup>b</sup>                         |
| 4  | Drive Motor Nominal Rating                                                                                                                                                                                                      | <b>300</b>                     | hp                                        |
| 5  | Drive Motor Nominal Efficiency                                                                                                                                                                                                  | <b>96.2</b>                    | percent                                   |
| 6  | Fan Motor Nominal Rating (if applicable)                                                                                                                                                                                        | <b>1</b>                       | hp                                        |
| 7  | Fan Motor Nominal Efficiency                                                                                                                                                                                                    | <b>69.5</b>                    | percent                                   |
| 8* | Input Power (kW)                                                                                                                                                                                                                | Capacity (acfm) <sup>a,d</sup> | Specific Power (kW/100 acfm) <sup>d</sup> |
|    | 252.8                                                                                                                                                                                                                           | <b>1344</b>                    | <b>18.81</b>                              |
|    | 224.0                                                                                                                                                                                                                           | <b>1208</b>                    | <b>18.54</b>                              |
|    | 201.0                                                                                                                                                                                                                           | <b>1068</b>                    | <b>18.82</b>                              |
|    | 178.0                                                                                                                                                                                                                           | <b>929</b>                     | <b>19.16</b>                              |
|    | 155.0                                                                                                                                                                                                                           | <b>789</b>                     | <b>19.65</b>                              |
| 9* | Total Package Input Power at Zero Flow <sup>c, d</sup>                                                                                                                                                                          |                                | <b>0.0</b> kW                             |
| 10 | Isentropic Efficiency                                                                                                                                                                                                           |                                | <b>74.56</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)

### NOTES:

- 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.
- The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
- 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.
- 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.