



# 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>KPE-900-125 VSD</b>                                                                                                                                                                                            |                                | Date: <b>01/08/26</b>                     |
|    | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled                                                                                                                                            | Type: <b>Screw</b>             |                                           |
|    | # 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>200</b>                     | hp                                        |
| 5  | Drive Motor Nominal Efficiency                                                                                                                                                                                                  | <b>97.1</b>                    | percent                                   |
| 6  | Fan Motor Nominal Rating (if applicable)                                                                                                                                                                                        | <b>3</b>                       | hp                                        |
| 7  | Fan Motor Nominal Efficiency                                                                                                                                                                                                    | <b>89.3</b>                    | percent                                   |
| 8* | Input Power (kW)                                                                                                                                                                                                                | Capacity (acfm) <sup>a,d</sup> | Specific Power (kW/100 acfm) <sup>d</sup> |
|    | 165.4                                                                                                                                                                                                                           | <b>840</b>                     | <b>19.68</b>                              |
|    | 140.6                                                                                                                                                                                                                           | <b>713</b>                     | <b>19.73</b>                              |
|    | 115.7                                                                                                                                                                                                                           | <b>585</b>                     | <b>19.78</b>                              |
|    | 92.0                                                                                                                                                                                                                            | <b>459</b>                     | <b>20.06</b>                              |
|    | 70.2                                                                                                                                                                                                                            | <b>333</b>                     | <b>21.11</b>                              |
| 9* | Total Package Input Power at Zero Flow <sup>c, d</sup>                                                                                                                                                                          |                                | <b>0.0</b> kW                             |
| 10 | Isentropic Efficiency                                                                                                                                                                                                           |                                | <b>66.25</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:



Member

- 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                       |                           |
| 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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