



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: Kaishan Compressor USA | | |
| 2 | Model Number: KRSD-25-125 VSD | | Date: 06/30/20 |
| | <input checked="" type="checkbox"/> Air-cooled | <input type="checkbox"/> Water-cooled | Type: Screw |
| | | | # of Stages: 1 |
| 3* | Full Load Operating Pressure ^b | 125 | psig ^b |
| 4 | Drive Motor Nominal Rating | 25 | hp |
| 5 | Drive Motor Nominal Efficiency | 92.0 | percent |
| 6 | Fan Motor Nominal Rating (if applicable) | 1 | hp |
| 7 | Fan Motor Nominal Efficiency | 83.5 | percent |
| 8* | Input Power (kW) | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 24.1 | 107 | 23.60 |
| | 20.9 | 86 | 24.30 |
| | 19.3 | 75 | 25.73 |
| | 14.9 | 54 | 27.59 |
| 9* | Total Package Input Power at Zero Flow ^{c, d} | 0.0 | kW |
| 10 | Isentropic Efficiency | 58.23 | % |
| 11 | <p style="text-align: center; font-size: small;"> Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35 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

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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