



## COMPRESSOR DATA SHEET

Federal Uniform Test Method for Certain Air Compressors Not Applicable

Rotary Compressor: Fixed Speed

| MODEL DATA - FOR COMPRESSED AIR |                                                                                              |                        |                         |
|---------------------------------|----------------------------------------------------------------------------------------------|------------------------|-------------------------|
| 1                               | Manufacturer: <b>Kaishan Compressor USA</b>                                                  |                        |                         |
| 2                               | Model Number: <b>KRSP2-250-100</b>                                                           |                        | Date: <b>7/12/2021</b>  |
|                                 | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled         | Type:                  | <b>Screw</b>            |
|                                 | <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free           | # of Stages:           | <b>2</b>                |
| 3*                              | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                               | <b>1373.0</b>          | acfm <sup>a, e</sup>    |
| 4                               | Full Load Operating Pressure <sup>b</sup>                                                    | <b>100</b>             | psig <sup>b</sup>       |
| 5                               | Maximum Full Flow Operating Pressure <sup>c</sup>                                            | <b>100</b>             | psig <sup>c</sup>       |
| 6                               | Drive Motor Nominal Rating                                                                   | <b>250</b>             | hp                      |
| 7                               | Drive Motor Nominal Efficiency                                                               | <b>96.2</b>            | percent                 |
| 8                               | Fan Motor Nominal Rating (if applicable)                                                     | <b>7.5 &amp; 2.0</b>   | hp                      |
| 9                               | Fan Motor Nominal Efficiency                                                                 | <b>91.0 &amp; 87.5</b> | percent                 |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>                                          | <b>39.4</b>            | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>    | <b>214.30</b>          | kW <sup>d</sup>         |
| 12*                             | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> | <b>15.61</b>           | kW/100 cfm <sup>e</sup> |
| 13                              | Isentropic Efficiency                                                                        | <b>85.15</b>           | Percent                 |

\*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 C; ACFM is actual cubic feet per minute at inlet conditions.
- The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
- Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
- Total package input power at other than reported operating points will vary with control strategy.
- Tolerance is specified in ISO 1217, Annex C, as shown in table below:

NOTE: The terms "power" and "energy" are synonymous for purposes of this document.



Member

| Volume Flow Rate<br>at specified conditions |                             | Volume Flow Rate | Specific Energy<br>Consumption | No Load / Zero Flow<br>Power |
|---------------------------------------------|-----------------------------|------------------|--------------------------------|------------------------------|
| <u>m<sup>3</sup> / min</u>                  | <u>ft<sup>3</sup> / min</u> |                  |                                |                              |
| 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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