



## COMPRESSOR DATA SHEET

In Accordance with Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Fixed Speed

### MODEL DATA - FOR COMPRESSED AIR

|     |   |                               |                         |                  |
|-----|---|-------------------------------|-------------------------|------------------|
| 1   | Manufacturer:   | <b>Kaishan Compressor USA</b> |                         |                  |
| 2   | Model Number:   | <b>KRSP2-200-100</b>          | Date:                   | <b>7/12/2021</b> |
|     | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled      |                               | Type:                   | <b>Screw</b>     |
|     |   |                               | # of Stages:            | <b>2</b>         |
| 3*  | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                            | <b>1178.0</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>200</b>                    | hp                      |                  |
| 7   | Drive Motor Nominal Efficiency  | <b>96.2</b>                   | percent                 |                  |
| 8   | Fan Motor Nominal Rating (if applicable)  | <b>5.0 &amp; 1.0</b>          | hp                      |                  |
| 9   | Fan Motor Nominal Efficiency  | <b>89.5 &amp; 83.5</b>        | percent                 |                  |
| 10* | Total Package Input Power at Zero Flow <sup>e</sup>                                       | <b>32.1</b>                   | kW <sup>e</sup>         |                  |
| 11  | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> | <b>181.50</b>                 | kW <sup>d</sup>         |                  |
| 12* | Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>    | <b>15.41</b>                  | kW/100 cfm <sup>e</sup> |                  |
| 13  | Isentropic Efficiency   | <b>86.26</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:

- a. 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.
- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
- c. 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.
- d. Total package input power at other than reported operating points will vary with control strategy.
- e. 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 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                       | +/- 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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