



## 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>KRSP-300-100</b>           | Date: <b>6/30/2020</b>  |
|                                 | <input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled         |                               | Type: <b>Screw</b>      |
|                                 | <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free           |                               | # of Stages: <b>1</b>   |
| 3*                              | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                               | <b>1502.0</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>300</b>                    | hp                      |
| 7                               | Drive Motor Nominal Efficiency   | <b>96.2</b>                   | percent                 |
| 8                               | Fan Motor Nominal Rating (if applicable)   | <b>0.5</b>                    | hp                      |
| 9                               | Fan Motor Nominal Efficiency   | <b>76.2</b>                   | percent                 |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>  | <b>52.8</b>                   | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>    | <b>247.50</b>                 | kW <sup>d</sup>         |
| 12*                             | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> | <b>16.48</b>                  | kW/100 cfm <sup>e</sup> |
| 13                              | Isentropic Efficiency  | <b>80.65</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.

| 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                       |                           |



Member

ROT 030.2