



## 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>Ingersoll Rand</b>                                                                                                                                                                                                                                                                  |                                |                                              |
| 2                               | Model Number: <b>RS110n-W145</b>                                                                                                                                                                                                                                                                     | Date:                          | <b>4/21/2023</b>                             |
|                                 | <input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled                                                                                                                                                                                                                 | Type:                          | <b>Screw</b>                                 |
|                                 |                                                                                                                                                                                                                                                                                                      | # of Stages:                   | <b>1</b>                                     |
| 3*                              | Full Load Operating Pressure <sup>b</sup>                                                                                                                                                                                                                                                            | <b>115</b>                     | psig <sup>b</sup>                            |
| 4                               | Drive Motor Nominal Rating                                                                                                                                                                                                                                                                           | <b>148</b>                     | hp                                           |
| 5                               | Drive Motor Nominal Efficiency                                                                                                                                                                                                                                                                       | <b>96.3%</b>                   | percent                                      |
| 6                               | Fan Motor Nominal Rating (if applicable)                                                                                                                                                                                                                                                             | <b>1.0</b>                     | hp                                           |
| 7                               | Fan Motor Nominal Efficiency                                                                                                                                                                                                                                                                         | <b>82.5%</b>                   | percent                                      |
| 8*                              | Input Power (kW)                                                                                                                                                                                                                                                                                     | Capacity (acfm) <sup>a,d</sup> | Specific Power<br>(kW/100 acfm) <sup>d</sup> |
|                                 | <b>130.5</b>                                                                                                                                                                                                                                                                                         | <b>735</b>                     | <b>17.75</b>                                 |
|                                 | <b>111.7</b>                                                                                                                                                                                                                                                                                         | <b>633</b>                     | <b>17.64</b>                                 |
|                                 | <b>93.7</b>                                                                                                                                                                                                                                                                                          | <b>530</b>                     | <b>17.67</b>                                 |
|                                 | <b>76.6</b>                                                                                                                                                                                                                                                                                          | <b>426</b>                     | <b>17.95</b>                                 |
|                                 | <b>60.0</b>                                                                                                                                                                                                                                                                                          | <b>322</b>                     | <b>18.64</b>                                 |
|                                 | <b>43.4</b>                                                                                                                                                                                                                                                                                          | <b>216</b>                     | <b>20.14</b>                                 |
| 9*                              | Total Package Input Power at Zero Flow <sup>c, d</sup>                                                                                                                                                                                                                                               | <b>0</b>                       | kW                                           |
| 10                              | Isentropic Efficiency                                                                                                                                                                                                                                                                                | <b>79.7</b>                    | percent                                      |
| 11                              | <div style="text-align: center;"> <p style="font-size: small;">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> </div> |                                |                                              |

\* For models that are tested in the CAGI Performance Verification Program, these are the items verified by the third party program 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 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 C, as shown in table below.

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

| Volume Flow Rate<br>at specified conditions |              | Volume Flow Rate | Specific Energy<br>Consumption | No Load / Zero<br>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

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This form was developed by the Compressed Air and Gas Institute for the use of its members participating in the PVP. CAGI has not independently verified the reported data.

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