



## 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>RS110ne-A145</b>                                                                                                                                                                                             | Date: <b>12/9/2024</b>         |                                           |
|    | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled                                                                                                                                          | Type: <b>Screw</b>             |                                           |
|    |                                                                                                                                                                                                                               | # of Stages: <b>2</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>97.0%</b>                   | percent                                   |
| 6  | Fan Motor Nominal Rating (if applicable)                                                                                                                                                                                      | <b>10.1</b>                    | hp                                        |
| 7  | Fan Motor Nominal Efficiency                                                                                                                                                                                                  | <b>90.4%</b>                   | percent                                   |
| 8* | Input Power (kW)                                                                                                                                                                                                              | Capacity (acfm) <sup>a,d</sup> | Specific Power (kW/100 acfm) <sup>d</sup> |
|    | <b>134.6</b>                                                                                                                                                                                                                  | <b>803</b>                     | <b>16.76</b>                              |
|    | <b>117.1</b>                                                                                                                                                                                                                  | <b>707</b>                     | <b>16.57</b>                              |
|    | <b>100.4</b>                                                                                                                                                                                                                  | <b>608</b>                     | <b>16.51</b>                              |
|    | <b>84.3</b>                                                                                                                                                                                                                   | <b>508</b>                     | <b>16.60</b>                              |
|    | <b>68.8</b>                                                                                                                                                                                                                   | <b>407</b>                     | <b>16.92</b>                              |
|    | <b>54.0</b>                                                                                                                                                                                                                   | <b>306</b>                     | <b>17.68</b>                              |
| 9* | Total Package Input Power at Zero Flow <sup>c, d</sup>                                                                                                                                                                        | <b>0</b>                       | kW                                        |
| 10 | Isentropic Efficiency                                                                                                                                                                                                         | <b>85.3</b>                    | percent                                   |
| 11 | <p>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> |                                |                                           |

\* 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:

- 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 8) and Electrical Consumption (item 8) were measured for this data sheet.
- 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.
- 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 |
|------------------------------------------|----------------------------|------------------|-----------------------------|---------------------------|
| $\text{m}^3 / \text{min}$                | $\text{ft}^3 / \text{min}$ | %                | %                           | %                         |
| 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 030.1