

## COMPRESSOR DATA SHEET

### Rotary Compressor: Variable Frequency Drive

#### MODEL DATA - FOR COMPRESSED AIR

|    |                                                                                                                                                                                                                                                           |                                |                                           |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------|
| 1  | Manufacturer: <b>Ingersoll Rand</b>                                                                                                                                                                                                                       |                                |                                           |
| 2  | Model Number: <b>RS18ne-A145</b>                                                                                                                                                                                                                          | Date: <b>August 2018</b>       |                                           |
|    | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled<br><input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free                                                                                | Type: <b>Screw</b>             |                                           |
|    |                                                                                                                                                                                                                                                           | # of Stages: <b>1</b>          |                                           |
| 3  | Rated Operating Pressure                                                                                                                                                                                                                                  | <b>145</b>                     | psig <sup>b</sup>                         |
| 4  | Drive Motor Nominal Rating                                                                                                                                                                                                                                | <b>25</b>                      | hp                                        |
| 5  | Drive Motor Nominal Efficiency                                                                                                                                                                                                                            | <b>92.6%</b>                   | percent                                   |
| 6  | Fan Motor Nominal Rating (if applicable)                                                                                                                                                                                                                  | <b>0.7</b>                     | hp                                        |
| 7  | Fan Motor Nominal Efficiency                                                                                                                                                                                                                              | <b>79.5%</b>                   | percent                                   |
| 8* | Input Power (kW)                                                                                                                                                                                                                                          | Capacity (acfm) <sup>a,d</sup> | Specific Power (kW/100 acfm) <sup>d</sup> |
|    | <b>23.19</b> Max                                                                                                                                                                                                                                          | <b>101.0</b>                   | <b>22.96</b>                              |
|    | <b>20.84</b>                                                                                                                                                                                                                                              | <b>88.9</b>                    | <b>23.45</b>                              |
|    | <b>18.56</b>                                                                                                                                                                                                                                              | <b>77.5</b>                    | <b>23.95</b>                              |
|    | <b>16.29</b>                                                                                                                                                                                                                                              | <b>66.3</b>                    | <b>24.57</b>                              |
|    | <b>14.02</b>                                                                                                                                                                                                                                              | <b>55.0</b>                    | <b>25.49</b>                              |
|    | <b>12.31</b> Min                                                                                                                                                                                                                                          | <b>46.5</b>                    | <b>26.47</b>                              |
| 9* | Total Package Input Power at Zero Flow <sup>c,d</sup>                                                                                                                                                                                                     |                                | <b>0</b> kW                               |
| 10 | <p style="text-align: center;">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 items are verified by 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 E; acfm is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity and Electrical Consumption 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 E, 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 <sup>3</sup> /min                      | ft <sup>3</sup> /min | %                | %                           |                           |
| Below 0.5                                | Below 15             | +/-7             | +/-8                        | +/- 10%                   |
| 0.5 to 1.5                               | 15 to 50             | +/-6             | +/-7                        |                           |
| 1.5 to 15                                | 50 to 500            | +/-5             | +/-6                        |                           |
| Above 15                                 | Above 500            | +/-4             | +/-5                        |                           |



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

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