



## 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>Ingersoll Rand</b>                                                          |              |                         |
| 2                               | Model Number: <b>RS15i-A125</b>                                                              | Date:        | <b>4/13/2020</b>        |
|                                 | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled         | Type:        | <b>Screw</b>            |
|                                 |                                                                                              | # of Stages: | <b>1</b>                |
| 3*                              | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                               | <b>88.1</b>  | acfm <sup>a, e</sup>    |
| 4*                              | Full Load Operating Pressure <sup>b</sup>                                                    | <b>115</b>   | psig <sup>b</sup>       |
| 5                               | Maximum Full Flow Operating Pressure <sup>c</sup>                                            | <b>125</b>   | psig <sup>c</sup>       |
| 6                               | Drive Motor Nominal Rating                                                                   | <b>20</b>    | hp                      |
| 7                               | Drive Motor Nominal Efficiency                                                               | <b>93.0</b>  | percent                 |
| 8                               | Fan Motor Nominal Rating (if applicable)                                                     | <b>0.7</b>   | hp                      |
| 9                               | Fan Motor Nominal Efficiency                                                                 | <b>79.5</b>  | percent                 |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>                                          | <b>5.5</b>   | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>    | <b>18.5</b>  | kW <sup>d</sup>         |
| 12*                             | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> | <b>20.97</b> | kW/100 cfm <sup>e</sup> |
| 13                              | Isentropic Efficiency                                                                        | <b>68.5</b>  | percent                 |

\* 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 3) and Electrical Consumption (item 11) were measured for this data sheet.
  - 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.
  - Total package input power at other than reported operating points will vary with control strategy.
  - 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 <sup>3</sup> / min                        | ft <sup>3</sup> / 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

12/19 Rev 3 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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