



## COMPRESSOR DATA SHEET

**Federal Uniform Test Method for Certain Air Compressors Not Applicable**

**Rotary Compressor: Variable Frequency Drive**

| MODEL DATA - FOR COMPRESSED AIR |   |  |   |
|---------------------------------|---|--|---|
| 1                               | Manufacturer: <b>Ingersoll Rand</b>   |  |   |
| 2                               | Model Number <b>IRN100H</b>   |  | Date: <b>04/30/20</b>                     |
|                                 | <input checked="" type="checkbox"/> Air-cooled  | <input type="checkbox"/> Water-cooled        | Type: <b>Screw</b>                        |
|                                 | <input type="checkbox"/> Lubricated   | <input checked="" type="checkbox"/> Oil-Free | # of Stages: <b>2</b>                     |
| 3*                              | Full Load Operating Pressure <sup>b</sup>   | <b>150</b>                                   | psig <sup>b</sup>                         |
| 4                               | Drive Motor Nominal Rating  | <b>100</b>                                   | hp  |
| 5                               | Drive Motor Nominal Efficiency  | <b>95.2</b>                                  | percent                                   |
| 6                               | Fan Motor Nominal Rating (if applicable)  | <b>5.4</b>                                   | hp  |
| 7                               | Fan Motor Nominal Efficiency  | <b>88.6</b>                                  | percent                                   |
| 8*                              | Input Power (kW)  | Capacity (acfm) <sup>a,d</sup>               | Specific Power (kW/100 acfm) <sup>d</sup> |
|                                 | <b>92.4</b>   | <b>368</b>                                   | <b>25.11</b>                              |
|                                 | <b>87.1</b>   | <b>345</b>                                   | <b>25.25</b>                              |
|                                 | <b>81.0</b>   | <b>319</b>                                   | <b>25.40</b>                              |
|                                 | <b>75.0</b>   | <b>293</b>                                   | <b>25.62</b>                              |
|                                 | <b>69.3</b>   | <b>267</b>                                   | <b>25.98</b>                              |
|                                 | <b>63.9</b>   | <b>241</b>                                   | <b>26.56</b>                              |
| 9*                              | Total Package Input Power at Zero Flow <sup>c, d</sup>  | <b>0.0</b>                                   | kW  |
| 10                              | <p style="font-size: small; 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 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)



Member

- NOTES:
- 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.
  - 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 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 17.6            | +/- 7            | +/- 8                       |                           |
| 0.5 to 1.5                               | 17.6 to 53            | +/- 6            | +/- 7                       | +/- 10%                   |
| 1.5 to 15                                | 53 to 529.7           | +/- 5            | +/- 6                       |                           |
| Above 15                                 | Above 529.7           | +/- 4            | +/- 5                       |                           |

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