



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: Ingersoll Rand | | |
| 2 | Model Number: RS250ne-W145 | Date: | 8/18/2020 |
| | <input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled | Type: | Screw |
| | | # of Stages: | 2 |
| 3* | Full Load Operating Pressure ^b | 115 | psig ^b |
| 4 | Drive Motor Nominal Rating | 335 | hp |
| 5 | Drive Motor Nominal Efficiency | 96.0 | percent |
| 6 | Fan Motor Nominal Rating (if applicable) | 1.5 | hp |
| 7 | Fan Motor Nominal Efficiency | 87.5 | percent |
| 8* | Input Power (kW) | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 301.1 | 1797.5 | 16.75 |
| | 276.2 | 1670.4 | 16.53 |
| | 235.5 | 1419.6 | 16.59 |
| | 192.9 | 1165.0 | 16.56 |
| | 154.7 | 914.6 | 16.91 |
| | 116.9 | 663.9 | 17.60 |
| 9* | Total Package Input Power at Zero Flow ^{c,d} | 0 | kW |

Note: Graph is only a visual representation of the data in section 8
 Note: Y-axis scale 10 to 35, +5kW/100acfm increments if necessary above 35
 X-Axis Scale, 0 to 25% over maximum capacity

* 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

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.

Member

| Volume Flow Rate at specified conditions | | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|--|-----------------------|------------------|-----------------------------|---------------------------|
| m^3 / min | ft ³ / 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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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.