

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: Gardner Denver | | |
| 2 | Model Number: Ultima U90-145psi | | Date: 05/11/21 |
| | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled | Type: Screw | |
| | <input type="checkbox"/> Lubricated <input checked="" type="checkbox"/> Oil Free | # of Stages: 2 | |
| 3* | Full Load Operating Pressure ^b | 145 | psig ^b |
| 4 | Drive Motor Nominal Rating | 60 | hp |
| 5 | Drive Motor Nominal Efficiency | 97.0 | percent |
| 6 | Fan Motor Nominal Rating (if applicable) | 0.78, 2X 3.75 | hp |
| 7 | Fan Motor Nominal Efficiency | 87.9 | percent |
| 8* | Input Power (kW) | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 101.73 | 449.4 | 22.64 |
| | 95.49 | 413.9 | 23.07 |
| | 89.38 | 378.4 | 23.62 |
| | 83.44 | 342.9 | 24.33 |
| | 77.69 | 307.4 | 25.27 |
| | 72.12 | 271.9 | 26.53 |
| 9* | Total Package Input Power at Zero Flow ^{c, d} | 8.4 | kW |
| 10 | <div style="border: 1px solid black; padding: 10px;"> <p align="center">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</p> </div> | | |

*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



- 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 (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 E, 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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