

COMPRESSOR DATA SHEET



In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

| MODEL DATA - FOR COMPRESSED AIR | | | | |
|---------------------------------|---|---------------------------------------|--------------------------------|---|
| 1 | Manufacturer: Quincy Compressor | | | |
| 2 | Model Number: QGV-175 | | Date: | 10/23/24 |
| | <input checked="" type="checkbox"/> Air-cooled | <input type="checkbox"/> Water-cooled | Type: | Screw |
| | | | | # of Stages: 1 |
| 3* | Full Load Operating Pressure ^b | 100 | psig ^b | |
| 4 | Drive Motor Nominal Rating | 175 | hp | |
| 5 | Drive Motor Nominal Efficiency | 96.2 | percent | |
| 6 | Fan Motor Nominal Rating (if applicable) | 3.4 x 2 | hp | |
| 7 | Fan Motor Nominal Efficiency | 76.0 | percent | |
| 8* | Input Power (kW) | | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 164.8 | | 981.7 | 16.79 |
| | 135.9 | | 826.1 | 16.45 |
| | 112.8 | | 681.2 | 16.56 |
| | 68.4 | | 386.2 | 17.71 |
| | 48.3 | | 244.4 | 19.76 |
| 9* | Total Package Input Power at Zero Flow ^{c, d} | 0.0 | kW | |
| 10 | Isentropic Efficiency | 78.8% | % | |
| 11 | <p style="text-align: center; font-size: small;"> 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> | | | |

*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

- 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 (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.



| 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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