

# 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: <b>Quincy Compressor</b>                                                                                                                                                                                                                                                                                                     |                                                  |                                |                                              |
| 2                               | Model Number: <b>QGV-60</b>                                                                                                                                                                                                                                                                                                                |                                                  | Date:                          | <b>08/05/24</b>                              |
|                                 | <input type="checkbox"/> Air-cooled                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Water-cooled | Type:                          | <b>Screw</b>                                 |
|                                 |                                                                                                                                                                                                                                                                                                                                            |                                                  | # of Stages:                   | <b>1</b>                                     |
| 3*                              | Full Load Operating Pressure <sup>b</sup>                                                                                                                                                                                                                                                                                                  | <b>125</b>                                       | psig <sup>b</sup>              |                                              |
| 4                               | Drive Motor Nominal Rating                                                                                                                                                                                                                                                                                                                 | <b>60</b>                                        | hp                             |                                              |
| 5                               | Drive Motor Nominal Efficiency                                                                                                                                                                                                                                                                                                             | <b>94.5</b>                                      | percent                        |                                              |
| 6                               | Fan Motor Nominal Rating (if applicable)                                                                                                                                                                                                                                                                                                   | <b>NA</b>                                        | hp                             |                                              |
| 7                               | Fan Motor Nominal Efficiency                                                                                                                                                                                                                                                                                                               | <b>NA</b>                                        | percent                        |                                              |
| 8*                              | Input Power (kW)                                                                                                                                                                                                                                                                                                                           |                                                  | Capacity (acfm) <sup>a,d</sup> | Specific Power<br>(kW/100 acfm) <sup>d</sup> |
|                                 | 50.9                                                                                                                                                                                                                                                                                                                                       |                                                  | <b>257.0</b>                   | <b>19.79</b>                                 |
|                                 | 37.0                                                                                                                                                                                                                                                                                                                                       |                                                  | <b>192.1</b>                   | <b>19.23</b>                                 |
|                                 | 30.6                                                                                                                                                                                                                                                                                                                                       |                                                  | <b>155.7</b>                   | <b>19.62</b>                                 |
|                                 | 20.9                                                                                                                                                                                                                                                                                                                                       |                                                  | <b>101.2</b>                   | <b>20.60</b>                                 |
|                                 | 14.5                                                                                                                                                                                                                                                                                                                                       |                                                  | <b>64.9</b>                    | <b>22.27</b>                                 |
| 9*                              | Total Package Input Power at Zero Flow <sup>c, d</sup>                                                                                                                                                                                                                                                                                     | <b>0.0</b>                                       | <b>kW</b>                      |                                              |
| 10                              | Isentropic Efficiency                                                                                                                                                                                                                                                                                                                      | <b>76.1%</b>                                     | %                              |                                              |
| 11                              | <p style="text-align: center; font-size: small;">                     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)

- 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 <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                       |                           |

ROT 031.1