



## COMPRESSOR DATA SHEET

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

Rotary Compressor: Fixed Speed

| MODEL DATA - FOR COMPRESSED AIR |   |                                       |                         |
|---------------------------------|---|---------------------------------------|-------------------------|
| 1                               | Manufacturer: Quincy Compressor   |                                       |                         |
| 2                               | Model Number: <b>QGS-50C</b>  |                                       | Date: 1/15/2021         |
|                                 | <input checked="" type="checkbox"/> Air-Cooled  | <input type="checkbox"/> Water-cooled | Type: Screw             |
|                                 | <input checked="" type="checkbox"/> Oil-injected  | <input type="checkbox"/> Oil-free     | # of Stages: 1          |
| 3*                              | Rated Capacity at Full Load Operating Pressure <sup>a e</sup>                             | 203.2                                 | acfm <sup>a e</sup>     |
| 4*                              | Full Load Operating Pressure <sup>b</sup>   | 125                                   | psig <sup>b</sup>       |
| 5                               | Maximum Full Flow Operating Pressure <sup>c</sup>   | 132                                   | psig <sup>c</sup>       |
| 6                               | Drive Motor Nominal Rating  | 50                                    | hp                      |
| 7                               | Drive Motor Nominal Efficiency  | 93.0                                  | percent                 |
| 8                               | Fan Motor Nominal Rating (if applicable)  | NA                                    | hp                      |
| 9                               | Fan Motor Nominal Efficiency  |                                       | percent                 |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>                                       | 9.7                                   | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> | 45.1                                  | kW <sup>d</sup>         |
| 12*                             | Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>    | 22.20                                 | kW/100 cfm <sup>e</sup> |
| 13                              | Isentropic Efficiency   | 67.6                                  | Percent                 |

\*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 C; ACFM is actual cubic feet per minute at inlet conditions.
  - b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
  - c. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
  - d. Total package input power at other than reported operating points will vary with control strategy.
  - e. 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 |
|--|-------------|------------------|-----------------------------|---------------------------|
| m3 / min                                 | ft3 / min   | %                | %                           | %                         |
| Below 0.5                                | Below 17.6  | +/- 7            | +/- 8                       | +/-10%                    |
| 0.5 to 1.5                               | 17.6 to 53  | +/- 6            | +/-7                        |                           |
| 1.5 to 15                                | 53 to 529.7 | +/- 5            | +/-6                        |                           |
| Above 15                                 | Above 529.7 | +/- 4            | +/-5                        |                           |

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