

# 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-50</b>		Date:	<b>08/05/24</b>
	<input checked="" type="checkbox"/> Air-cooled	<input type="checkbox"/> Water-cooled	Type:	<b>Screw</b>
				# of Stages: <b>1</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>100</b>	psig <sup>b</sup>	
4	Drive Motor Nominal Rating	<b>50</b>	hp	
5	Drive Motor Nominal Efficiency	<b>94.5</b>	percent	
6	Fan Motor Nominal Rating (if applicable)	<b>2.2</b>	hp	
7	Fan Motor Nominal Efficiency	<b>85.0</b>	percent	
8*	Input Power (kW)		Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	44.3		<b>241.9</b>	<b>18.31</b>
	37.7		<b>207.1</b>	<b>18.20</b>
	30.8		<b>165.3</b>	<b>18.63</b>
	20.5		<b>102.6</b>	<b>19.98</b>
	14.3		<b>65.2</b>	<b>21.93</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	<b>kW</b>	
10	Isentropic Efficiency	<b>70.4%</b>	%	
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](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	