



## COMPRESSOR DATA SHEET

### 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>Nov-16</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	<b>Screw</b>
	<input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages:	<b>Single</b>
3	Rated Operating Pressure	<b>125</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>50</b>	hp
5	Drive Motor Nominal Efficiency	<b>93.2</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.2</b>	hp
7	Fan Motor Nominal Efficiency	<b>85</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	43.2                      Max	<b>226.8</b>	<b>18.9</b>
	42.0	<b>217.8</b>	<b>19.1</b>
	34.6	<b>174.9</b>	<b>19.4</b>
	25.4	<b>121.4</b>	<b>20.8</b>
	21.4	<b>97.8</b>	<b>21.7</b>
	16.3                      Min	<b>66.6</b>	<b>24.4</b>
9*	Total Package Input Power at Zero Flow <sup>c,d</sup>		<b>5.4</b> kW
10	<p style="text-align: center; font-size: small;"> <b>Note: Graph is only a visual representation of the data in Section 8</b>            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 program 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 and Electrical Consumption 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 15	+/- 7	+/- 8	+/- 10%
0.5 to 1.5	15 to 50	+/- 6	+/- 7	
1.5 to 15	50 to 500	+/- 5	+/- 6	
Above 15	Above 500	+/- 4	+/- 5	

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