

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>ELGi</b>		
2	Model Number: <b>EQ 18 V-125</b>	Date: <b>08/31/2023</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>125</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>25</b>	hp
5	Drive Motor Nominal Efficiency	<b>93.6</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>0.38(0.28) - 208-230V / 0.40(0.30)-460V <input checked="" type="checkbox"/> 1 Fan</b>	
7	Fan Motor Nominal Efficiency	<b>NA</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>23.3</b>	<b>100.0</b>	<b>23.32</b>
	<b>22.2</b>	<b>93.0</b>	<b>23.96</b>
	<b>20.2</b>	<b>83.0</b>	<b>24.41</b>
	<b>18.4</b>	<b>73.0</b>	<b>25.34</b>
	<b>15.8</b>	<b>57.0</b>	<b>27.67</b>
	<b>12.7</b>	<b>41.0</b>	<b>31.28</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	<b>kW</b>
10	Isentropic Efficiency	<b>57.44</b>	<b>%</b>
11	<p>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 website for a list of participants in the third party verification program: [www.cagi.org](http://www.cagi.org)



- 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.

Member

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	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

ROT 031.1