

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>EG 45-175 V</b>	Date:	<b>12/06/2021</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>175</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>60</b>	hp
5	Drive Motor Nominal Efficiency	<b>95</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.9</b>	hp
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>52.0</b>	<b>208.0</b>	<b>25.01</b>
	<b>49.6</b>	<b>176.0</b>	<b>28.18</b>
	<b>44.3</b>	<b>158.0</b>	<b>28.04</b>
	<b>36.5</b>	<b>130.0</b>	<b>28.12</b>
	<b>28.8</b>	<b>96.0</b>	<b>29.95</b>
	<b>25.8</b>	<b>83.0</b>	<b>31.09</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	<b>kW</b>
10	Isentropic Efficiency	<b>64.22</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  
 bsite 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
$m^3 / min$	$ft^3 / min$	%	%	%
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	

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