

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 160V-175-P</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>200</b>	hp
5	Drive Motor Nominal Efficiency	<b>96.2</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.1 X 2</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>175.7</b>	<b>720.0</b>	<b>24.41</b>
	<b>160.0</b>	<b>660.0</b>	<b>24.25</b>
	<b>145.1</b>	<b>600.0</b>	<b>24.18</b>
	<b>131.3</b>	<b>540.0</b>	<b>24.31</b>
	<b>105.2</b>	<b>420.0</b>	<b>25.04</b>
	<b>92.4</b>	<b>360.0</b>	<b>25.67</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	<b>kW</b>
10	Isentropic Efficiency	<b>71.76</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	

ROT 031.1