



## 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>FS-Curtis</b>			
2	Model Number: <b>NxV37-175</b>		Date:	<b>03/03/21</b>
	<input checked="" type="checkbox"/> Air-cooled	<input type="checkbox"/> Water-cooled	Type:	<b>Screw</b>
				# of Stages:
3*	Full Load Operating Pressure <sup>b</sup>	<b>175</b>	psig <sup>b</sup>	
4	Drive Motor Nominal Rating	<b>50</b>	hp	
5	Drive Motor Nominal Efficiency	<b>93.0</b>	percent	
6	Fan Motor Nominal Rating (if applicable)	<b>1.5</b>	hp	
7	Fan Motor Nominal Efficiency	<b>87.5</b>	percent	
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>		Specific Power (kW/100 acfm) <sup>d</sup>
	<b>45.1</b>	<b>167.8</b>		<b>26.88</b>
	<b>40.3</b>	<b>150.2</b>		<b>26.83</b>
	<b>30.6</b>	<b>112.4</b>		<b>27.22</b>
	<b>25.9</b>	<b>93.9</b>		<b>27.58</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		<b>0.0</b>	<b>kW</b>
10	Isentropic Efficiency		<b>64.80</b>	<b>%</b>
11	<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 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)



Member

**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	

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