



## 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>NxV75-100</b>		Date: <b>APRIL, 2016</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>100</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>100</b>	hp
5	Drive Motor Nominal Efficiency	<b>95.4</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>3</b>	hp
7	Fan Motor Nominal Efficiency	<b>89.5</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	100	498.8	<b>20.05</b>
	83.3	422	<b>19.74</b>
	68.5	347.8	<b>19.70</b>
	52.4	266.5	<b>19.66</b>
	26.6	120.7	<b>22.04</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	kW
10	Isentropic Efficiency	<b>66.90</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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