



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:	FS-Curtis			
2	Model Number:	NxV37-100		Date:	03/03/21
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled			Type:	Screw
				# of Stages:	1
3*	Full Load Operating Pressure ^b	100	psig ^b		
4	Drive Motor Nominal Rating	50	hp		
5	Drive Motor Nominal Efficiency	93.0	percent		
6	Fan Motor Nominal Rating (if applicable)	1.5	hp		
7	Fan Motor Nominal Efficiency	87.5	percent		
8*	Input Power (kW)	Capacity (acfm) ^{a,d}		Specific Power (kW/100 acfm) ^d	
	46.7			20.57	
	40.3			20.36	
	27.7			19.72	
	21.3			19.40	
	11.3			21.81	
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW		
10	Isentropic Efficiency	66.40	%		
11	<p style="text-align: center; font-size: small;"> 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
 Consult CAGI website for a list of participants in the third party verification program: 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^3 / min	ft^3 / 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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