

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <i>FS Curtis</i>		
2	Model Number: <i>NXV30</i>		Date: SEPTEMBER, 2015
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type: Screw	
	<input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages:	1
3	Rated Operating Pressure	100	psig ^b
4	Drive Motor Nominal Rating	40	hp
5	Drive Motor Nominal Efficiency	89.5	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
	36.7	183.0	20.05
	32.4	162.5	19.94
	28.3	142.7	19.83
	19.1	99.8	19.14
	16.5	83.2	19.83
9*	Total Package Input Power at Zero Flow ^{c, d}		kW
			0.0
10	<div style="border: 1px solid black; padding: 10px;"> <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> </div>		

*For models that are tested in the CAGI Performance Verification Program, these items are verified by program administrator
 Consult CAGI website for a list of participants in the third party verification program: www.cagi.org

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 and Electrical Consumption 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 15	+/- 7	+/- 8	+/- 10%
0.5 to 1.5	15 to 50	+/- 6	+/- 7	
1.5 to 15	50 to 500	+/- 5	+/- 6	
Above 15	Above 500	+/- 4	+/- 5	



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	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	Type: Screw	
		# of Stages: 1	
3	Rated Operating Pressure	125	psig ^b
4	Drive Motor Nominal Rating	40	hp
5	Drive Motor Nominal Efficiency	89.5	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
	38.2	168.7	22.64
	29.8	134.3	22.19
	25.5	115.0	22.17
	21.3	95.8	22.23
	18.9	82.5	22.91
	13.0	50.9	25.54
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	<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>		

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		# of Stages: 1	
3	Rated Operating Pressure	150	psig ^b
4	Drive Motor Nominal Rating	40	hp
5	Drive Motor Nominal Efficiency	89.5	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
	37.6	152.8	24.61
	30.4	123.2	24.68
	26.7	106.7	25.02
	23.2	91.7	25.30
	21.1	81.6	25.86
9*	14.4	49.7	28.97
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	<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>		

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	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages: 1	
3	Rated Operating Pressure	175	psig ^b
4	Drive Motor Nominal Rating	40	hp
5	Drive Motor Nominal Efficiency	89.5	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
	36.0	134.9	26.69
	33.4	122.7	27.22
	23.5	87.5	26.86
	21.5	75.3	28.55
	19.9	63.7	31.24
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	<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>		

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