

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: <i>FS Curtis</i>		
2	Model Number: <i>NXV08</i>	Date: September, 2015	
	<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	100	psig ^b
4	Drive Motor Nominal Rating	10	hp
5	Drive Motor Nominal Efficiency	87.7	percent
6	Fan Motor Nominal Rating (if applicable)	n/a	hp
7	Fan Motor Nominal Efficiency	n/a	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	9.6	45.98	20.88
	8.5	40.22	21.14
	7.3	34.56	21.12
	6.3	28.63	22.01
	5.1	22.92	22.25
	4.0	16.96	23.58
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>		

*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:

- 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.
- The operating pressure at which the Capacity and Electrical Consumption were measured for this data sheet.
- 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.
- 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"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages:	1
3	Rated Operating Pressure	125	psig ^b
4	Drive Motor Nominal Rating	10	hp
5	Drive Motor Nominal Efficiency	87.7	percent
6	Fan Motor Nominal Rating (if applicable)	n/a	hp
7	Fan Motor Nominal Efficiency	n/a	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	9.5	40.48	23.47
	8.3	35.43	23.43
	6.7	30.38	22.05
	5.7	25.16	22.66
	5.1	19.91	25.62
	4.5	15.09	29.83
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"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages:	1
3	Rated Operating Pressure	150	psig ^b
4	Drive Motor Nominal Rating	10	hp
5	Drive Motor Nominal Efficiency	87.7	percent
6	Fan Motor Nominal Rating (if applicable)	n/a	hp
7	Fan Motor Nominal Efficiency	n/a	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	9.6	35.81	26.81
	8.7	32.71	26.60
	6.7	26.45	25.33
	6.1	23.30	26.18
	5.7	20.02	28.47
	5.2	16.05	32.40
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"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages:	1
3	Rated Operating Pressure	175	psig ^b
4	Drive Motor Nominal Rating	10	hp
5	Drive Motor Nominal Efficiency	87.7	percent
6	Fan Motor Nominal Rating (if applicable)	n/a	hp
7	Fan Motor Nominal Efficiency	n/a	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	9.1	29.02	31.36
	8.7	27.03	32.19
	7.8	24.53	31.80
	6.9	21.96	31.42
	6.6	18.98	34.77
	6.1	15.53	39.27
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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