

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: <i>FS Curtis</i>		
2	Model Number: <i>NXVII</i>	Date: <b>September, 2015</b>	Type: <b>Screw</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages: <b>1</b>	
3	Rated Operating Pressure	<b>100</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>15</b>	hp
5	Drive Motor Nominal Efficiency	<b>88.7</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>n/a</b>	hp
7	Fan Motor Nominal Efficiency	<b>n/a</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	13.7	65.41	<b>20.88</b>
	11.9	57.61	<b>20.62</b>
	9.9	49.46	<b>20.02</b>
	8.0	41.39	<b>19.40</b>
	5.6	33.17	<b>16.88</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	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](http://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:	<b>1</b>
3	Rated Operating Pressure	<b>125</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>15</b>	hp
5	Drive Motor Nominal Efficiency	<b>88.7</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>n/a</b>	hp
7	Fan Motor Nominal Efficiency	<b>n/a</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	12.9	57.32	<b>22.51</b>
	11.1	49.87	<b>22.26</b>
	9.4	41.81	<b>22.48</b>
	7.7	34.12	<b>22.57</b>
	6.3	26.07	<b>24.05</b>
	5.0	18.24	<b>27.42</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	kW
10	<p style="text-align: center;"> <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>		

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m <sup>3</sup> / min	ft <sup>3</sup> / min	%	%	
Below 0.5	Below 15	+/- 7	+/- 8	+/- 10%
0.5 to 1.5	15 to 50	+/- 6	+/- 7	
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3	Rated Operating Pressure	<b>150</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>15</b>	hp
5	Drive Motor Nominal Efficiency	<b>88.7</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>n/a</b>	hp
7	Fan Motor Nominal Efficiency	<b>n/a</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	13.0	50.97	<b>25.51</b>
	11.2	44.19	<b>25.35</b>
	9.3	37.03	<b>25.11</b>
	7.6	30.02	<b>25.32</b>
	5.7	22.74	<b>25.07</b>
5.3	19.60	<b>27.04</b>	
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	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	Type: <b>Screw</b>	
	<input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages: <b>1</b>	
3	Rated Operating Pressure	<b>175</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>15</b>	hp
5	Drive Motor Nominal Efficiency	<b>88.7</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>n/a</b>	hp
7	Fan Motor Nominal Efficiency	<b>n/a</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	12.8	44.47	<b>28.72</b>
	11.2	38.77	<b>28.76</b>
	9.0	32.34	<b>27.89</b>
	7.3	26.21	<b>27.85</b>
	5.1	19.50	<b>26.15</b>
	4.8	15.77	<b>30.44</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	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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