

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: <i>FS Curtis</i>		
2	Model Number: <i>NXV22</i>		Date: <b>JUNE, 2015</b>
	<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>100</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>30</b>	hp
5	Drive Motor Nominal Efficiency	<b>88.5</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>1</b>	hp
7	Fan Motor Nominal Efficiency	<b>82.5</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	27.0	128.6	<b>21.00</b>
	22.8	111.1	<b>20.52</b>
	18.9	92.6	<b>20.41</b>
	14.9	73.3	<b>20.33</b>
	11.7	52.9	<b>22.12</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:

- 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 <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	
1.5 to 15	50 to 500	+/- 5	+/- 6	
Above 15	Above 500	+/- 4	+/- 5	



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		# of Stages: <b>1</b>	
3	Rated Operating Pressure	<b>125</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>30</b>	hp
5	Drive Motor Nominal Efficiency	<b>88.5</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>1</b>	hp
7	Fan Motor Nominal Efficiency	<b>82.5</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	31.4	117.9	<b>26.63</b>
	23.0	102.8	<b>22.37</b>
	19.3	86.3	<b>22.36</b>
	14.9	68.6	<b>21.72</b>
	11.2	50.3	<b>22.27</b>
9*	7.9	32.7	<b>24.16</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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Below 0.5	Below 15	+/- 7	+/- 8	+/- 10%
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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: <b>1</b>	
3	Rated Operating Pressure	<b>150</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>30</b>	hp
5	Drive Motor Nominal Efficiency	<b>88.5</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>1</b>	hp
7	Fan Motor Nominal Efficiency	<b>82.5</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	29.1	112.3	<b>25.91</b>
	25.1	97.2	<b>25.82</b>
	21.4	81.5	<b>26.26</b>
	17.9	65.1	<b>27.50</b>
	13.9	48.3	<b>28.78</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	kW
	<div style="text-align: center;"> <p><b>Note:</b> 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>		
10			

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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: <b>Screw</b>	
		# of Stages: <b>1</b>	
3	Rated Operating Pressure	<b>175</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>30</b>	hp
5	Drive Motor Nominal Efficiency	<b>88.5</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>1</b>	hp
7	Fan Motor Nominal Efficiency	<b>82.5</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	29.7	105.4	<b>28.18</b>
	26.1	93.3	<b>27.97</b>
	22.8	79.8	<b>28.57</b>
	19.8	67.2	<b>29.46</b>
	17.2	54.4	<b>31.62</b>
9*	13.8	40.3	<b>34.24</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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