

**COMPRESSOR DATA SHEET**

CAP708-NXV90-100

**Rotary Compressor: Variable Frequency Drive**

<b>MODEL DATA - FOR COMPRESSED AIR</b>			
1	Manufacturer: <i>FS Curtis</i>		
2	Model Number: <i>NXV90</i>		Date: <b>APRIL, 2016</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>125</b>	hp
5	Drive Motor Nominal Efficiency	<b>95.4</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>3</b>	hp
7	Fan Motor Nominal Efficiency	<b>89.5</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	121.0	567.3	<b>21.33</b>
	98.8	483.0	<b>20.46</b>
	78.4	388.2	<b>20.20</b>
	59.4	298.5	<b>19.90</b>
	40.0	198.0	<b>20.20</b>
	26.6	120.7	<b>22.04</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		<b>0.0</b> kW
10	<div style="border: 1px solid black; padding: 10px;"> <p 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> </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](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
$m^3 / min$	$ft^3 / min$	%	%	
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	



**COMPRESSOR DATA SHEET**

CAP708-NXV90-125

**Rotary Compressor: Variable Frequency Drive**

<b>MODEL DATA - FOR COMPRESSED AIR</b>			
1	Manufacturer: <i>FS Curtis</i>		
2	Model Number: <i>NXV90</i>		Date: <b>APRIL, 2016</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>125</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>125</b>	hp
5	Drive Motor Nominal Efficiency	<b>95.4</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>3</b>	hp
7	Fan Motor Nominal Efficiency	<b>89.5</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	113.0	505.5	<b>22.35</b>
	94.5	433.1	<b>21.82</b>
	79.0	361.9	<b>21.83</b>
	62.7	283.4	<b>22.12</b>
	46.7	202.2	<b>23.10</b>
	32.2	119.7	<b>26.90</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		<b>0.0</b> kW
10	<div style="border: 1px solid black; padding: 10px;"> <p 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> </div>		

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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.
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- 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.
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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	



**COMPRESSOR DATA SHEET**

CAP708-NXV90-150

**Rotary Compressor: Variable Frequency Drive**

<b>MODEL DATA - FOR COMPRESSED AIR</b>			
1	Manufacturer: <i>FS Curtis</i>		
2	Model Number: <i>NXV90</i>	Date:	<b>APRIL, 2016</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>150</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>125</b>	hp
5	Drive Motor Nominal Efficiency	<b>95.4</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>3</b>	hp
7	Fan Motor Nominal Efficiency	<b>89.5</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	113.0	456.5	<b>24.75</b>
	95.2	393.4	<b>24.20</b>
	79.0	333.1	<b>23.72</b>
	63.0	264.0	<b>23.86</b>
	48.8	190.4	<b>25.63</b>
9*	35.1	117.5	<b>29.87</b>
	Total Package Input Power at Zero Flow <sup>c, d</sup>		<b>0.0</b> kW
10	<p 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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NOTES:

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

