

## COMPRESSOR DATA SHEET

### Rotary Compressor: Fixed Speed

#### MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: FS Curtis		
2	Model Number: NxD90		Date: <b>June, 2017</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 Capacity at Full Load Operating Pressure <sup>a, e</sup>	<b>563</b>	acfm <sup>a, e</sup>
4	Full Load Operating Pressure <sup>b</sup>	<b>100</b>	psig <sup>b</sup>
5	Maximum Full Flow Operating Pressure <sup>c</sup>	<b>100</b>	psig <sup>c</sup>
6	Drive Motor Nominal Rating	<b>125</b>	hp
7	Drive Motor Nominal Efficiency	<b>95</b>	percent
8	Fan Motor Nominal Rating (if applicable)	<b>3</b>	hp
9	Fan Motor Nominal Efficiency	<b>89.5</b>	percent
10*	Total Package Input Power at Zero Flow <sup>e</sup>	<b>39.6</b>	kW <sup>e</sup>
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>	<b>115.3</b>	kW <sup>d</sup>
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>	<b>20.48</b>	kW/100 cfm <sup>e</sup>

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

NOTES:

**Member:**



- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
- c. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
- d. Total package input power at other than reported operating points will vary with control strategy.
- e. Tolerance is specified in ISO 1217, Annex C, as shown in table below:

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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## COMPRESSOR DATA SHEET

### Rotary Compressor: Fixed Speed

#### MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: FS Curtis		
2	Model Number: NxD90	Date:	<b>January, 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 Capacity at Full Load Operating Pressure <sup>a, e</sup>	492	acfm <sup>a, e</sup>
4	Full Load Operating Pressure <sup>b</sup>	125	psig <sup>b</sup>
5	Maximum Full Flow Operating Pressure <sup>c</sup>	125	psig <sup>c</sup>
6	Drive Motor Nominal Rating	125	hp
7	Drive Motor Nominal Efficiency	95	percent
8	Fan Motor Nominal Rating (if applicable)	3	hp
9	Fan Motor Nominal Efficiency	89.5	percent
10*	Total Package Input Power at Zero Flow <sup>e</sup>	32.1	kW <sup>e</sup>
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>	106.3	kW <sup>d</sup>
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>	21.61	kW/100 cfm <sup>e</sup>

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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	

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**COMPRESSOR DATA SHEET**  
**Rotary Compressor: Fixed Speed**

**MODEL DATA - FOR COMPRESSED AIR**

1	Manufacturer:FS Curtis		
2	Model Number:NxD90	Date:	<b>January, 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 Capacity at Full Load Operating Pressure <sup>a, e</sup>	<b>448</b>	acfm <sup>a, e</sup>
4	Full Load Operating Pressure <sup>b</sup>	<b>150</b>	psig <sup>b</sup>
5	Maximum Full Flow Operating Pressure <sup>c</sup>	<b>150</b>	psig <sup>c</sup>
6	Drive Motor Nominal Rating	<b>125</b>	hp
7	Drive Motor Nominal Efficiency	<b>95</b>	percent
8	Fan Motor Nominal Rating (if applicable)	<b>3</b>	hp
9	Fan Motor Nominal Efficiency	<b>89.5</b>	percent
10*	Total Package Input Power at Zero Flow <sup>e</sup>	<b>33.4</b>	kW <sup>e</sup>
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>	<b>108.5</b>	kW <sup>d</sup>
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>	<b>24.22</b>	kW/100 cfm <sup>e</sup>

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<u>m<sup>3</sup> / min</u>	<u>ft<sup>3</sup> / min</u>	<u>%</u>	<u>%</u>	
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	
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	<input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages:	<b>1</b>
3*	Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>	424	acfm <sup>a, e</sup>
4	Full Load Operating Pressure <sup>b</sup>	175	psig <sup>b</sup>
5	Maximum Full Flow Operating Pressure <sup>c</sup>	175	psig <sup>c</sup>
6	Drive Motor Nominal Rating	125	hp
7	Drive Motor Nominal Efficiency	95	percent
8	Fan Motor Nominal Rating (if applicable)	3	hp
9	Fan Motor Nominal Efficiency	89.5	percent
10*	Total Package Input Power at Zero Flow <sup>e</sup>	33.0	kW <sup>e</sup>
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>	114.0	kW <sup>d</sup>
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>	26.89	kW/100 cfm <sup>e</sup>

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

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This form was developed by the Compressed Air and Gas Institute for the use of its members. CAGI has not independently verified the reported data.