

COMPRESSOR DATA SHEET

Rotary Compressor: Fixed Speed

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: FS Curtis		
2	Model Number: NxD45		Date: January, 2016
	<input checked="" type="checkbox"/> Air-cooled	<input type="checkbox"/> Water-cooled	Type: Screw
	<input checked="" type="checkbox"/> Oil-injected	<input type="checkbox"/> Oil-free	# of Stages: 1
3*	Rated Capacity at Full Load Operating Pressure ^{a, e}	288	acfm ^{a, e}
4	Full Load Operating Pressure ^b	100	psig ^b
5	Maximum Full Flow Operating Pressure ^c	100	psig ^c
6	Drive Motor Nominal Rating	60	hp
7	Drive Motor Nominal Efficiency	95	percent
8	Fan Motor Nominal Rating (if applicable)	2	hp
9	Fan Motor Nominal Efficiency	86.5	percent
10*	Total Package Input Power at Zero Flow ^e	19.3	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	55.8	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	19.38	kW/100 cfm ^e

*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

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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	<input checked="" type="checkbox"/> Oil-injected	<input type="checkbox"/> Oil-free	# of Stages: 1
3*	Rated Capacity at Full Load Operating Pressure ^{a, e}	263	acfm ^{a, e}
4	Full Load Operating Pressure ^b	125	psig ^b
5	Maximum Full Flow Operating Pressure ^c	125	psig ^c
6	Drive Motor Nominal Rating	60	hp
7	Drive Motor Nominal Efficiency	95	percent
8	Fan Motor Nominal Rating (if applicable)	2	hp
9	Fan Motor Nominal Efficiency	86.5	percent
10*	Total Package Input Power at Zero Flow ^e	19.7	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	57.6	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	21.90	kW/100 cfm ^e

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3*	Rated Capacity at Full Load Operating Pressure ^{a, e}	246	acfm ^{a, e}
4	Full Load Operating Pressure ^b	150	psig ^b
5	Maximum Full Flow Operating Pressure ^c	150	psig ^c
6	Drive Motor Nominal Rating	60	hp
7	Drive Motor Nominal Efficiency	95	percent
8	Fan Motor Nominal Rating (if applicable)	2	hp
9	Fan Motor Nominal Efficiency	86.5	percent
10*	Total Package Input Power at Zero Flow ^e	18	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	58.2	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	23.66	kW/100 cfm ^e

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3*	Rated Capacity at Full Load Operating Pressure ^{a, e}	223	acfm ^{a, e}
4	Full Load Operating Pressure ^b	175	psig ^b
5	Maximum Full Flow Operating Pressure ^c	175	psig ^c
6	Drive Motor Nominal Rating	60	hp
7	Drive Motor Nominal Efficiency	95	percent
8	Fan Motor Nominal Rating (if applicable)	2	hp
9	Fan Motor Nominal Efficiency	86.5	percent
10*	Total Package Input Power at Zero Flow ^e	18.9	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	57.2	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	25.65	kW/100 cfm ^e

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