

COMPRESSOR DATA SHEET

Rotary Compressor: Fixed Speed

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: FS Curtis		
2	Model Number: NxB37	Date:	4/23/2015
	<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}	233.6	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	50	hp
7	Drive Motor Nominal Efficiency	93	percent
8	Fan Motor Nominal Rating (if applicable)	1.5	hp
9	Fan Motor Nominal Efficiency	87.5	percent
10*	Total Package Input Power at Zero Flow ^e	17.4	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	45.83	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	19.62	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}	203.4	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	50	hp
7	Drive Motor Nominal Efficiency	93	percent
8	Fan Motor Nominal Rating (if applicable)	1.5	hp
9	Fan Motor Nominal Efficiency	87.5	percent
10*	Total Package Input Power at Zero Flow ^e	15.2	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	44.13	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	21.70	kW/100 cfm ^e

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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}	193	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	50	hp
7	Drive Motor Nominal Efficiency	93	percent
8	Fan Motor Nominal Rating (if applicable)	1.5	hp
9	Fan Motor Nominal Efficiency	87.5	percent
10*	Total Package Input Power at Zero Flow ^e	13.7	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	45.86	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	23.76	kW/100 cfm ^e

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3*	Rated Capacity at Full Load Operating Pressure ^{a, e}	179.8	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	50	hp
7	Drive Motor Nominal Efficiency	93	percent
8	Fan Motor Nominal Rating (if applicable)	1.5	hp
9	Fan Motor Nominal Efficiency	87.5	percent
10*	Total Package Input Power at Zero Flow ^e	12.3	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	46.46	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	25.84	kW/100 cfm ^e

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