

COMPRESSOR DATA SHEET

Rotary Compressor: Fixed Speed

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: FS Curtis		
2	Model Number: RSB-50		Date: 9/1/2009
	<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, c}	220	acfm ^{a, e}
4	Full Load Operating Pressure ^b	100	psig ^b
5	Maximum Full Flow Operating Pressure ^c	101	psig ^c
6	Drive Motor Nominal Rating	50	hp
7	Drive Motor Nominal Efficiency	92.4	percent
8	Fan Motor Nominal Rating (if applicable)	2	hp
9	Fan Motor Nominal Efficiency	84	percent
10*	Total Package Input Power at Zero Flow ^c	17.1	kW ^c
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	46.6	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	21.2	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: 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.

Member: 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
<u>m³ / min</u>	<u>ft³ / min</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	
Above 15	Above 500	+/- 4	+/- 5	

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2	Model Number: RSB50	Date: MAY, 2014	
	<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}	200	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	93.6	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	16.9	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	47.3	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	23.65	kW/100 cfm ^e

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NOTES:

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- 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.
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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"/>
		Water-cooled	Type: Screw
		Oil-free	# of Stages: 1
3*	Rated Capacity at Full Load Operating Pressure ^{a, e}		186 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		92.4 percent
8	Fan Motor Nominal Rating (if applicable)		2 hp
9	Fan Motor Nominal Efficiency		84 percent
10*	Total Package Input Power at Zero Flow ^e		17.1 kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d		45.8 kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e		24.6 kW/100 cfm ^e

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NOTES:

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	<input checked="" type="checkbox"/>	Oil-injected	<input type="checkbox"/>
		Water-cooled	Type: Screw
		Oil-free	# of Stages: 1
3*	Rated Capacity at Full Load Operating Pressure ^{a, c}		170 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		92.4 percent
8	Fan Motor Nominal Rating (if applicable)		2 hp
9	Fan Motor Nominal Efficiency		84 percent
10*	Total Package Input Power at Zero Flow ^e		17.1 kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d		45.8 kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e		26.9 kW/100 cfm ^e

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0.5 to 1.5	15 to 50	+/- 6	+/- 7	
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