

COMPRESSOR DATA SHEET
Rotary Compressor: Fixed Speed



MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer:	Boge Kompressoren	
2	Model Number:	S 50-3	Date: 7/14/2014
	<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	218.95	acfm ^{a,e}
4	Full Load Operating Pressure ^b	125	psig ^b
5	Maximum Full Flow Operating Pressure ^c	135	psig ^c
6	Drive Motor Nominal Rating	50	hp
7	Drive Motor Nominal Efficiency	93.0	percent
8	Fan Motor Nominal Rating (if applicable)	2.0	hp
9	Fan Motor Nominal Efficiency	84.0	percent
10*	Total Package Input Power at Zero Flow ^e	13.4	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	47.5	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	21.70	kW/100 cfm ^e

* 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

NOTES:

- 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.
- The operating pressure at which the Capacity and Electrical Consumption were measured for this data sheet.
- 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.
- 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.

Member



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	
0.5 to 1.5	15 to 50	+/- 6	+/- 7	+/- 10%
1.5 to 15	50 to 500	+/- 5	+/- 6	
Above 15	Above 500	+/- 4	+/- 5	

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