

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



**MODEL DATA - FOR COMPRESSED AIR**

1	Manufacturer: <b>Boge Kompressoren</b>		
2	Model Number: <b>S 100-3</b>	Date:	<b>6/1/2013</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>474.70</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>110</b>	psig <sup>c</sup>
6	Drive Motor Nominal Rating	<b>101</b>	hp
7	Drive Motor Nominal Efficiency	<b>94.1</b>	percent
8	Fan Motor Nominal Rating (if applicable)	<b>5.4</b>	hp
9	Fan Motor Nominal Efficiency	<b>89.5</b>	percent
10*	Total Package Input Power at Zero Flow <sup>e</sup>	<b>16.8</b>	kW <sup>e</sup>
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>	<b>89.6</b>	kW <sup>d</sup>
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>	<b>18.86</b>	kW/100 cfm <sup>e</sup>

\* 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](http://www.cagi.org)

- NOTES:
- a. 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.
  - b. The operating pressure at which the Capacity and Electrical Consumption were measured for this data sheet.
  - c. 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.
  - d. 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
<u>m<sup>3</sup> / min</u>	<u>ft<sup>3</sup> / 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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