

COMPRESSOR DATA SHEET

In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR																
1	Manufacturer: <b>BOGE</b>															
2	Model Number: <b>S 38-4 LF N</b>		Date:	<b>12.06.2025</b>												
	<input checked="" type="checkbox"/> Air-cooled	<input type="checkbox"/> Water-cooled	Type:	<b>Screw</b>												
			# of Stages:	<b>1</b>												
3*	Full Load Operating Pressure <sup>b</sup>		<b>125</b>	psig <sup>b</sup>												
4	Drive Motor Nominal Rating		<b>54</b>	hp												
5	Drive Motor Nominal Efficiency		<b>95,3</b>	percent												
6	Fan Motor Nominal Rating (if applicable)		<b>2,7</b>	hp												
7	Fan Motor Nominal Efficiency		<b>86,7</b>	percent												
8*	Input Power (kW)		Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>												
	<b>43,7</b>		<b>231,8</b>	<b>18,86</b>												
	<b>40,0</b>		<b>213,0</b>	<b>18,77</b>												
	<b>27,6</b>		<b>144,4</b>	<b>19,13</b>												
	<b>20,1</b>		<b>98,9</b>	<b>20,30</b>												
	<b>13,1</b>		<b>53,3</b>	<b>24,55</b>												
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		<b>0,0</b>	<b>kW</b>												
10	Isentropic Efficiency		<b>77,8%</b>	<b>%</b>												
11	<div><div>Specific Power (kW/100 ACFM)</div><div><table><caption>Data points from the graph</caption><thead><tr><th>Capacity (ACFM)</th><th>Specific Power (kW/100 ACFM)</th></tr></thead><tbody><tr><td>50,0</td><td>24,55</td></tr><tr><td>100,0</td><td>20,30</td></tr><tr><td>150,0</td><td>19,13</td></tr><tr><td>200,0</td><td>18,77</td></tr><tr><td>230,0</td><td>18,86</td></tr></tbody></table></div><div>Capacity (ACFM)</div><div>Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35 X-Axis Scale, 0 to 25% over maximum capacity</div></div>				Capacity (ACFM)	Specific Power (kW/100 ACFM)	50,0	24,55	100,0	20,30	150,0	19,13	200,0	18,77	230,0	18,86
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\*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](http://www.cagi.org)



Member

- 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 (Item 8) and Electrical Consumption (Item 8) 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.

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m <sup>3</sup> / min	ft <sup>3</sup> / min	%	%	%
Below 0.5	Below 17.6	+/- 7	+/- 8	+/- 10%
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	
Above 15	Above 529.7	+/- 4	+/- 5	

ROT 031.1