

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: BOGE		
2	Model Number: SLF 51-3		Date: 24.11.2021
	☒ Air-cooled ☐ Water-cooled		Type: Screw
			# of Stages: 1
3*	Full Load Operating Pressure ^b	100	psig ^b
4	Drive Motor Nominal Rating	50	hp
5	Drive Motor Nominal Efficiency	94	percent
6	Fan Motor Nominal Rating (if applicable)	3,5	hp
7	Fan Motor Nominal Efficiency	86,5	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	51,3	264,2	19,43
	35,5	184,1	19,26
	33,0	166,2	19,86
	30,7	153,5	20,03
	20,7	87,0	23,76
9*	Total Package Input Power at Zero Flow ^{c, d}	0,0	kW
10	Isentropic Efficiency	67,6%	%
11	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		

*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



Member

- 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 ³ / min	ft ³ / 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	

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