COMPRESSOR DATA SHEET

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

Rotary Compressor: Variable Frequency Drive

					OR COMPRESSE	•	
1	Manufacturer:	BOGE	Ξ				
	Model Number: S 45-4 LF N x Air-cooled Water-cooled					Date:	12.06.2025
2					Туре:		Screw
						# of Stages:	1
3*	Full Load Oper	ating Pressu	ire ^b		100	psig	
4	Drive Motor Nominal Rating				67	hp	
5	Drive Motor Nominal Efficiency				95,2	percent	
6	Fan Motor Nominal Rating (if applicable)				2,7	hp	
7	Fan Motor Non	Fan Motor Nominal Efficiency			86,7	percent	
	Input Power (kW)			Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d		
	52,1				303,1		17,19
8*	40,0			236,1	16,94		
	28,6			168,4	16,97		
	18,0			100,2	17,97		
	9,6			41,7	23,05		
9*	Total Package Input Power at Zero Flow c, d			0,0	kW		
10	Isentropic Efficiency				77,7%	%	
11	Specific Power (kW/100 ACFM)	35,00 30,00 25,00 20,00 15,00 10,00 0,0 25,00			125,0 150,0 175,0 200,0 Capacity (ACFM) sual representation of the data i		75,0 300,0 325,0

*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:

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- 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.

Member

	Volume Flow Rate specified conditions	Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power	
$\underline{m}^3 / \underline{min}$	$\underline{\text{ft}^3} / \underline{\text{min}}$	%	%	%	
Below 0.5	Below 17.6	+/- 7	+/- 8		
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	+/- 10%	
1.5 to 15	53 to 529.7	+/- 5	+/- 6		
Above 15	Above 529.7	+/- 4	+/- 5		

ROT 031.1

12/19 Rev 3 This form was developed by the Compressed Air and Gas Institute for the use of its members participating in the PVP. CAGI has not independently verified the reported data.