## **COMPRESSOR DATA SHEET**

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

**Rotary Compressor: Variable Frequency Drive** 

Manufacturer: BOGE  Model Number: S 76-4  X Air-cooled  Full Load Operating Pressu  Drive Motor Nominal Ratin  Drive Motor Nominal Effic  Fan Motor Nominal Rating  Fan Motor Nominal Efficie  Input Power (kW)	LF N Water-cooled re ag iency (if applicable)	125 100 96,2 3,0	Date:	09.11.2023 Screw  1 psig <sup>b</sup> hp	
Full Load Operating Pressu Drive Motor Nominal Ratin Drive Motor Nominal Effic Fan Motor Nominal Rating Fan Motor Nominal Efficie	Water-cooled  re  g iency (if applicable)	100 96,2	Type:	Screw  1 psig <sup>b</sup>	
Full Load Operating Pressur Drive Motor Nominal Rating Drive Motor Nominal Effic Fan Motor Nominal Rating Fan Motor Nominal Efficie	re <sup>b</sup> Ig iency (if applicable)	100 96,2		1 psig <sup>b</sup>	
Drive Motor Nominal Ratin Drive Motor Nominal Effic Fan Motor Nominal Rating Fan Motor Nominal Efficie	iency (if applicable)	100 96,2		psig	
Drive Motor Nominal Ratin Drive Motor Nominal Effic Fan Motor Nominal Rating Fan Motor Nominal Efficie	iency (if applicable)	100 96,2		psig	
Drive Motor Nominal Effic Fan Motor Nominal Rating Fan Motor Nominal Efficie	iency (if applicable)	96,2		hp	
Fan Motor Nominal Rating Fan Motor Nominal Efficie	(if applicable)	· · · · · · · · · · · · · · · · · · ·			
Fan Motor Nominal Efficie		3,0		percent	
	ncy	· · ·	hp		
Input Power (kW)		89,5	percent		
	Input Power (kW)		Specific Power (kW/100 acfm) <sup>d</sup>		
90,0		475,4		,93	
65,9		355,9	18	,52	
46,7		248,0	18,83		
29,2		131,6	22,22		
25,0	c d	99,6	25	,07	
Total Package Input Power at Zero Flow c, u		0,0	kW		
Isentropic Efficiency		79,4%	0/0		
	Note: Graph is only a vis	Capacity (ACFM) sual representation of the data in	n Section 8	450,0475,0500,0	
	46,7 29,2 25,0  Total Package Input Power Isentropic Efficiency  35,00 30,00 25,00 10,00 0,0 25,0 5	46,7  29,2  25,0  Total Package Input Power at Zero Flow  35,00  30,00  30,00  25,00  Note: Graph is only a vis. Note: Y-Axis Scale, 10 to 35,	46,7 248,0  29,2 131,6  25,0 99,6  Total Package Input Power at Zero Flow c, d 0,0  Isentropic Efficiency 79,4%  35,00  30,00  30,00  15,00  0,0 25,0 50,0 75,0 100,0125,0150,0175,0200,0225,0250,0275,0300,032  Capacity (ACFM)  Note: Graph is only a visual representation of the data in	65,9 355,9 18  46,7 248,0 18  29,2 131,6 22  25,0 99,6 25  Total Package Input Power at Zero Flow c, d 0,0  Isentropic Efficiency 79,4% %  35,00 30,00 15,00 25,0 50,0 75,0 100,0125,0150,0175,0200,0225,0250,0275,0300,0325,0350,0375,0400,0425,0  Capacity (ACFM)  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	

\*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: <a href="https://www.cagi.org">www.cagi.org</a>



- 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

	olume Flow Rate pecified conditions	Volume Flow Rate	Specific Energy Consumption	Zero Flow Power
$\underline{m}^3 / \underline{min}$	ft <sup>3</sup> / 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	

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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.