COMPRESSOR DATA SHEET

In Accordance with Federal Uniform Test Method for Certain Lubricated Air Compressors **Rotary Compressor: Fixed Speed**

1	Manufacturer: BOGE Compressor		
2	Model Number: S 50-3 N	Date:	27.04.2021
	X Air-cooled Water-cooled	Type:	Screw
		# of Stages:	1
3*	Rated Capacity at Full Load Operating Pressure a, e	240	acfm ^{a,e}
4*	Full Load Operating Pressure ^b	100	psig ^b
5	Maximum Full Flow Operating Pressure ^c	100	psig ^c
6	Drive Motor Nominal Rating	50	hp
7	Drive Motor Nominal Efficiency	93	percent
8	Fan Motor Nominal Rating (if applicable)	2	hp
9	Fan Motor Nominal Efficiency	84	percent
10*	Total Package Input Power at Zero Flow ^e	13,9	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	45,30	kW^d
2*	Package Specific Power at Rated Capacity and Full Load Operating Pressure ^e	18,85	kW/100 cfm ^e
13	Isentropic Efficiency	70,51	Percent

- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
- c. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the
- maximum pressure attainable before capacity control begins. May require additional power. d. Total package input power at other than reported operating points will vary with control strategy.



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e.

Tolerance is specified in ISO 1217, Annex C, as shown in table below: NOTE: The terms "power" and "energy" are synonymous for purposes of this document. No Load / Zero Flow Volume Flow Rate at specified conditions Specific Energy Volume Flow Rate Consumption Power ft^3 / min Member % % % $\underline{m^3 / min}$ Below 0.5 Below 17.6 +/- 7 +/- 8 0.5 to 1.5 17.6 to 53 +/- 6 +/- 7 +/- 10% 53 to 529.7 1.5 to 15 +/- 5 +/- 6 Above 529.7 Above 15 +/- 4 +/- 5

12/19 Rev 1 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.