

**COMPRESSOR DATA SHEET**

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

| MODEL DATA - FOR COMPRESSED AIR |   |                        |                         |
|---------------------------------|---|------------------------|-------------------------|
| 1                               | Manufacturer:   | <b>BOGE Compressor</b> |                         |
| 2                               | Model Number:   | <b>S 50-3 N</b>        | Date: <b>08.05.2026</b> |
|                                 | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled      |                        | Type: <b>Screw</b>      |
|                                 |   |                        | # of Stages: <b>1</b>   |
| 3*                              | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                            | <b>206</b>             | acfm <sup>a, e</sup>    |
| 4*                              | Full Load Operating Pressure <sup>b</sup>   | <b>135</b>             | psig <sup>b</sup>       |
| 5                               | Maximum Full Flow Operating Pressure <sup>c</sup>   | <b>150</b>             | psig <sup>c</sup>       |
| 6                               | Drive Motor Nominal Rating  | <b>50</b>              | hp                      |
| 7                               | Drive Motor Nominal Efficiency  | <b>93</b>              | percent                 |
| 8                               | Fan Motor Nominal Rating (if applicable)  | <b>2</b>               | hp                      |
| 9                               | Fan Motor Nominal Efficiency  | <b>84</b>              | percent                 |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>                                       | <b>12,50</b>           | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> | <b>43,73</b>           | kW <sup>d</sup>         |
| 12*                             | Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>    | <b>21,22</b>           | kW/100 cfm <sup>e</sup> |
| 13                              | Isentropic Efficiency   | <b>73,74</b>           | Percent                 |

\*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)

NOTES:

- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.
- 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.
- 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.



| Volume Flow Rate at specified conditions |                    | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|--|--------------------|------------------|-----------------------------|---------------------------|
| $\frac{m^3}{min}$                        | $\frac{ft^3}{min}$ | %                | %                           | %                         |
| 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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