

## 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: <b>BOGE</b>  |                                |  |
| 2                               | Model Number: <b>S 55-4 LF N</b>   |                                | Date: <b>29.11.2022</b>                      |
|                                 | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled   |                                | Type: <b>Screw</b>                           |
|                                 |  |                                | # of Stages: <b>1</b>                        |
| 3*                              | Full Load Operating Pressure <sup>b</sup>  | <b>125</b>                     | psig <sup>b</sup>                            |
| 4                               | Drive Motor Nominal Rating   | <b>75</b>                      | hp   |
| 5                               | Drive Motor Nominal Efficiency   | <b>96</b>                      | percent                                      |
| 6                               | Fan Motor Nominal Rating (if applicable)   | <b>3,5</b>                     | hp   |
| 7                               | Fan Motor Nominal Efficiency   | <b>89,5</b>                    | percent                                      |
| 8*                              | Input Power (kW)   | Capacity (acfm) <sup>a,d</sup> | Specific Power<br>(kW/100 acfm) <sup>d</sup> |
|                                 | <b>67,3</b>  | <b>356,1</b>                   | <b>18,90</b>                                 |
|                                 | <b>44,5</b>  | <b>223,2</b>                   | <b>19,95</b>                                 |
|                                 | <b>36,6</b>  | <b>177,3</b>                   | <b>20,65</b>                                 |
|                                 | <b>29,3</b>  | <b>129,6</b>                   | <b>22,58</b>                                 |
| 9*                              | Total Package Input Power at Zero Flow <sup>c, d</sup>   | <b>0,0</b>                     | <b>kW</b>                                    |
| 10                              | Isentropic Efficiency  | <b>74,8%</b>                   | %  |
| 11                              | <div style="text-align: center;"> <p style="font-size: small;">                     Note: Graph is only a visual representation of the data in Section 8<br/>                     Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35<br/>                     X-Axis Scale, 0 to 25% over maximum capacity                 </p> </div> |                                |  |

\*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
- 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.
  - The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
  - 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.
  - 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 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                       |                           |
| 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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