

**COMPRESSOR DATA SHEET**  
**Rotary Compressor: Fixed Speed**

**MODEL DATA - FOR COMPRESSED AIR**

|     |  |                |                         |
|-----|--|----------------|-------------------------|
| 1   | Manufacturer: <b>Boge Kompressoren</b>   |                |                         |
| 2   | Model Number: <b>S 271</b>   | Date:          | <b>01.10.2012</b>       |
|     | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled         | Type:          | <b>Screw</b>            |
|     | <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free           | # of Stages:   | <b>Single</b>           |
| 3*  | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                               | <b>1274,27</b> | acfm <sup>a, e</sup>    |
| 4   | Full Load Operating Pressure <sup>b</sup>  | <b>100</b>     | psig <sup>b</sup>       |
| 5   | Maximum Full Flow Operating Pressure <sup>c</sup>  | <b>110</b>     | psig <sup>c</sup>       |
| 6   | Drive Motor Nominal Rating   | <b>268</b>     | hp                      |
| 7   | Drive Motor Nominal Efficiency   | <b>96,2</b>    | percent                 |
| 8   | Fan Motor Nominal Rating (if applicable)   | <b>14,7</b>    | hp                      |
| 9   | Fan Motor Nominal Efficiency   | <b>92,4</b>    | percent                 |
| 10* | Total Package Input Power at Zero Flow <sup>e</sup>  | <b>53,26</b>   | kW <sup>e</sup>         |
| 11  | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>    | <b>231,81</b>  | kW <sup>d</sup>         |
| 12* | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> | <b>18,19</b>   | kW/100 cfm <sup>e</sup> |

\*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:

Member:

- 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:



| Volume Flow Rate at specified conditions |                       | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|--|-----------------------|------------------|-----------------------------|---------------------------|
| m <sup>3</sup> / min                     | ft <sup>3</sup> / min | %                | %                           |                           |
| Below 0.5                                | Below 15              | +/- 7            | +/- 8                       | +/- 10%                   |
| 0.5 to 1.5                               | 15 to 50              | +/- 6            | +/- 7                       |                           |
| 1.5 to 15                                | 50 to 500             | +/- 5            | +/- 6                       |                           |
| Above 15                                 | Above 500             | +/- 4            | +/- 5                       |                           |

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