

## COMPRESSOR DATA SHEET

### Rotary Compressor: Fixed Speed

#### MODEL DATA - FOR COMPRESSED AIR

|     |                                                                                              |                                       |                            |
|-----|----------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| 1   | Manufacturer: <b>Boge Kompressoren</b>                                                       |                                       |                            |
| 2   | Model Number: <b>S 180</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>822,72</b>                         | acfm <sup>a, e</sup>       |
| 4   | Full Load Operating Pressure <sup>b</sup>                                                    | <b>115</b>                            | psig <sup>b</sup>          |
| 5   | Maximum Full Flow Operating Pressure <sup>c</sup>                                            | <b>125</b>                            | psig <sup>c</sup>          |
| 6   | Drive Motor Nominal Rating                                                                   | <b>177</b>                            | hp                         |
| 7   | Drive Motor Nominal Efficiency                                                               | <b>95,8</b>                           | percent                    |
| 8   | Fan Motor Nominal Rating (if applicable)                                                     | <b>10,1</b>                           | hp                         |
| 9   | Fan Motor Nominal Efficiency                                                                 | <b>91,7</b>                           | percent                    |
| 10* | Total Package Input Power at Zero Flow <sup>e</sup>                                          | <b>38,64</b>                          | kW <sup>e</sup>            |
| 11  | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>    | <b>164,38</b>                         | kW <sup>d</sup>            |
| 12* | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> | <b>19,98</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<br>at specified conditions |                       | Volume Flow Rate | Specific Energy<br>Consumption | No Load / Zero Flow<br>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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This form was developed by the Compressed Air and Gas Institute for the use of its members. CAGI has not independently verified the reported data.

