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

### MODEL DATA - FOR COMPRESSED AIR

<table>
<thead>
<tr>
<th></th>
<th>Manufacturer:</th>
<th>Boge Kompressoren</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Model Number:</td>
<td>S 180</td>
</tr>
<tr>
<td>2</td>
<td>Type:</td>
<td>Screw</td>
</tr>
<tr>
<td></td>
<td>Air-cooled</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Water-cooled</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oil-injected</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oil-free</td>
<td></td>
</tr>
<tr>
<td></td>
<td># of Stages:</td>
<td>Single</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Rated Capacity at Full Load Operating Pressure</th>
<th>822,72 acfm</th>
</tr>
</thead>
<tbody>
<tr>
<td>3a</td>
<td>Full Load Operating Pressure</td>
<td>125 psig</td>
</tr>
<tr>
<td>4</td>
<td>Maximum Full Flow Operating Pressure</td>
<td>135 psig</td>
</tr>
<tr>
<td>5</td>
<td>Drive Motor Nominal Rating</td>
<td>177 hp</td>
</tr>
<tr>
<td>6</td>
<td>Drive Motor Nominal Efficiency</td>
<td>95.8 percent</td>
</tr>
<tr>
<td>7</td>
<td>Fan Motor Nominal Rating (if applicable)</td>
<td>10.1 hp</td>
</tr>
<tr>
<td>8</td>
<td>Fan Motor Nominal Efficiency</td>
<td>91.7 percent</td>
</tr>
<tr>
<td>9</td>
<td>Total Package Input Power at Zero Flow</td>
<td>33,64 kW</td>
</tr>
<tr>
<td>10a</td>
<td>Total Package Input Power at Rated Capacity and Full Load Operating Pressure</td>
<td>170,55 kW</td>
</tr>
<tr>
<td>11</td>
<td>Specific Package Input Power at Rated Capacity and Full Load Operating Pressure</td>
<td>20,73 kW/100 cfm</td>
</tr>
</tbody>
</table>

*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:

<table>
<thead>
<tr>
<th>Volume Flow Rate at specified conditions</th>
<th>Volume Flow Rate</th>
<th>Specific Energy Consumption</th>
<th>No Load / Zero Flow Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>m³/min</td>
<td>ft³/min</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Below 0.5</td>
<td>Below 15</td>
<td>+/- 7</td>
<td>+/- 8</td>
</tr>
<tr>
<td>0.5 to 1.5</td>
<td>15 to 50</td>
<td>+/- 6</td>
<td>+/- 7</td>
</tr>
<tr>
<td>1.5 to 15</td>
<td>50 to 500</td>
<td>+/- 5</td>
<td>+/- 6</td>
</tr>
<tr>
<td>Above 15</td>
<td>Above 500</td>
<td>+/- 4</td>
<td>+/- 5</td>
</tr>
</tbody>
</table>

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