



## 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>Hertz Kompressoren</b>  |              |                         |
| 2   | Model Number: <b>HBD 37</b>  | Date:        | <b>05.11.21</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>1</b>                |
| 3*  | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                               | <b>219,7</b> | acfm <sup>a, e</sup>    |
| 4   | Full Load Operating Pressure <sup>b</sup>  | <b>125</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>50</b>    | hp                      |
| 7   | Drive Motor Nominal Efficiency   | <b>94</b>    | percent                 |
| 8   | Fan Motor Nominal Rating (if applicable)   | <b>1,22</b>  | hp                      |
| 9   | Fan Motor Nominal Efficiency   | <b>53</b>    | percent                 |
| 10* | Total Package Input Power at Zero Flow <sup>e</sup>  | <b>15,36</b> | kW <sup>e</sup>         |
| 11  | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>    | <b>45,3</b>  | kW <sup>d</sup>         |
| 12* | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> | <b>20,6</b>  | kW/100 cfm <sup>e</sup> |
| 13  | Isentropic Efficiency  | <b>72,9</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.



Member

ROT 030.1

| 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 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                       |                           |