

### 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>Hertz Kompressoren</b>  |                                |   |
| 2  | Model Number: <b>HVD 160</b>   | Date:                          | <b>05.07.21</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 Operating Pressure   | <b>125</b>                     | psig <sup>b</sup>                         |
| 4  | Drive Motor Nominal Rating   | <b>220</b>                     | hp  |
| 5  | Drive Motor Nominal Efficiency   | <b>96,6</b>                    | percent                                   |
| 6  | Fan Motor Nominal Rating (if applicable)   | <b>7,64</b>                    | hp  |
| 7  | Fan Motor Nominal Efficiency   | <b>55,7</b>                    | percent                                   |
| 8* | Input Power (kW)   | Capacity (acfm) <sup>a,d</sup> | Specific Power (kW/100 acfm) <sup>d</sup> |
|    | 206,4  | Max                            | <b>1041,8</b>                             |
|    | 185,3  |                                | <b>932,5</b>                              |
|    | 164,0  |                                | <b>810,7</b>                              |
|    | 144,2  |                                | <b>702,7</b>                              |
|    | 123,6  |                                | <b>580,9</b>                              |
|    | 105,6  | Min                            | <b>470,1</b>                              |
| 9* | Total Package Input Power at Zero Flow <sup>c, d</sup>   |                                | <b>35,8</b> kW                            |
| 10 | Isentropic Efficiency  | <b>75,8</b>                    | Percent                                   |
| 11 | <p style="text-align: center; font-size: small;"> <b>Note: Graph is only a visual representation of the data in Section 8</b><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> |                                |   |

\*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 E; ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
- c. 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.
- d. 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<br>at specified conditions |                             | Volume Flow Rate | Specific Energy<br>Consumption | No Load / Zero Flow Power |
|---|-----------------------------|------------------|--------------------------------|---------------------------|
| <u>m<sup>3</sup> / min</u>                  | <u>ft<sup>3</sup> / min</u> | %                | %                              | %                         |
| 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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