

## 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>IMPETUS VSD 90</b>  | Date: <b>04/25/23</b>          |   |
|    | <input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled   | Type: <b>Screw</b>             |   |
|    | <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free   | # of Stages: <b>2</b>          |   |
| 3  | Rated Operating Pressure   | <b>100</b>                     | psig <sup>b</sup>                         |
| 4  | Drive Motor Nominal Rating   | <b>125</b>                     | hp  |
| 5  | Drive Motor Nominal Efficiency   | <b>96.5</b>                    | percent                                   |
| 6  | Fan Motor Nominal Rating (if applicable)   | <b>N/A</b>                     | hp  |
| 7  | Fan Motor Nominal Efficiency   | <b>N/A</b>                     | percent                                   |
| 8* | Input Power (kW)   | Capacity (acfm) <sup>a,d</sup> | Specific Power (kW/100 acfm) <sup>d</sup> |
|    | 104.3 Max  | <b>634.6</b>                   | <b>16.43</b>                              |
|    | 89.3   | <b>550.3</b>                   | <b>16.22</b>                              |
|    | 73.5   | <b>453.3</b>                   | <b>16.21</b>                              |
|    | 60.2   | <b>362.9</b>                   | <b>16.58</b>                              |
|    | 45.6   | <b>263.7</b>                   | <b>17.30</b>                              |
| 8* | 33.2 Min   | <b>181.8</b>                   | <b>18.28</b>                              |
|    |  |                                |   |
| 9* | Total Package Input Power at Zero Flow <sup>c,d</sup>  | <b>14.1</b>                    | kW  |
| 10 | Isentropic Efficiency  | <b>80.9</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 at specified conditions |              | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|--|--------------|------------------|-----------------------------|---------------------------|
| $m^3 / min$                              | $ft^3 / min$ | %                | %                           | %                         |
| Below 0.5                                | Below 17.6   | +/- 7            | +/- 8                       |                           |
| 0.5 to 1.5                               | 17.6 to 53   | +/- 6            | +/- 7                       |                           |
| 1.5 to 15                                | 53 to 529.7  | +/- 5            | +/- 6                       | +/- 10%                   |
| Above 15                                 | Above 529.7  | +/- 4            | +/- 5                       |                           |