

### 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 110</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>150</b>                                       | psig <sup>b</sup>                         |                 |
| 4  | Drive Motor Nominal Rating   | <b>150</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> |                 |
|    | 133.9  | Max  | <b>683.9</b>                              | <b>19.57</b>    |
|    | 116.4  |  | <b>589.4</b>                              | <b>19.75</b>    |
|    | 102.5  |  | <b>513.0</b>                              | <b>19.98</b>    |
|    | 86.1   |  | <b>416.0</b>                              | <b>20.71</b>    |
|    | 72.7   |  | <b>332.0</b>                              | <b>21.90</b>    |
|    | 58.0   | Min  | <b>234.3</b>                              | <b>24.76</b>    |
| 9* | Total Package Input Power at Zero Flow <sup>c,d</sup>  | <b>17.2</b>                                      | kW  |                 |
| 10 | Isentropic Efficiency  | <b>84.5</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 <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                       |                           |