

## 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 45</b>		Date:	<b>12.18.23</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>60</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>
	52,1 Max		<b>327,0</b>		<b>15,93</b>
	43,9		<b>277,6</b>		<b>15,80</b>
	36,1		<b>231,3</b>		<b>15,63</b>
	28,6		<b>181,5</b>		<b>15,73</b>
	21,8		<b>129,6</b>		<b>16,80</b>
	15,2 Min		<b>81,6</b>		<b>18,66</b>
9*	Total Package Input Power at Zero Flow <sup>c,d</sup>		<b>6,4</b>		kW
10	Isentropic Efficiency		<b>83,4</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>                      Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35                      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	