



## 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 185</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>250</b>	hp
5	Drive Motor Nominal Efficiency	<b>96.7</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>
	225.1	Max	<b>1338.8</b>
	184.4		<b>1130.4</b>
	148.4		<b>922.1</b>
	115.9		<b>713.7</b>
	84.3		<b>505.4</b>
	52.0	Min	<b>297.0</b>
9*	Total Package Input Power at Zero Flow <sup>c,d</sup>	<b>24.3</b>	kW
10	Isentropic Efficiency	<b>79.1</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	