

## **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						
Manufacturer: Hertz Kompressoren						
Model Number: IMPETUS VSD 185	Date:	04/25/23				
Air-cooled X Water-cooled	Type:	Screw				
X Oil-injected Oil-free	# of Stages:	2				
Rated Operating Pressure	150	psig <sup>b</sup>				
Drive Motor Nominal Rating	250	hp				
Drive Motor Nominal Efficiency	96.7	percent				
Fan Motor Nominal Rating (if applicable)	N/A	hp				
Fan Motor Nominal Efficiency	N/A	percent				
Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>				
220.4 Max	1117.7	19.72				
186.4	951.7	19.59				
154.5	785.8	19.66				
124.8	619.8	20.14				
94.9	453.8	20.91				
64.9 Min	287.8	22.55				
Total Package Input Power at Zero Flow <sup>c, d</sup>	24.3	kW				
Isentropic Efficiency	83.9	Percent				
Capaci Note: Graph is only a visual re Note: Y-Axis Scale, 10 to 35, + 5kW	ty (ACFM) presentation of the data in Section					
	Manufacturer:  Model Number:  IMPETUS VSD 185  Air-cooled X Water-cooled X Oil-injected Oil-free  Rated Operating Pressure  Drive Motor Nominal Rating Drive Motor Nominal Efficiency  Fan Motor Nominal Efficiency  Input Power (kW)  220.4  Max  186.4  154.5  124.8  94.9  64.9  Min  Total Package Input Power at Zero Flow <sup>c, d</sup> Isentropic Efficiency  Source:  Source:  Note: Graph is only a visual report of the content of the	Manufacturer:   Hertz Kompressoren				

<sup>\*</sup>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: <a href="www.cagi.org">www.cagi.org</a>

- 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

Compressed Air & Gas Institute

Vo	olume Flow Rate		Specific Energy	
at sp	pecified conditions	Volume Flow Rate	Consumption	No Load / Zero Flow Power
m <sup>3</sup> / min	ft <sup>3</sup> / min	%	%	%
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	

ROT 031.1