

## **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: Hertz Kompressoren							
Model Number: IMPETUS VSD 185	Date:	03/07/23					
X Air-cooled Water-cooled	Type:	Screw					
X Oil-injected Oil-free	# of Stages:	2					
Rated Operating Pressure	100	psig <sup>b</sup>					
Drive Motor Nominal Rating	250	hp					
Drive Motor Nominal Efficiency	96.7	percent					
Fan Motor Nominal Rating (if applicable)	4.0 / 2.0	hp					
Fan Motor Nominal Efficiency	86 / 83	percent					
Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>					
230.6 Max	1338.8	17.22					
188.9	1130.4	16.71					
152.0	922.1	16.49					
118.8	713.7	16.64					
86.4	505.4	17.09					
53.2 Min	297.0	17.92					
Total Package Input Power at Zero Flow <sup>c, d</sup>	24.3	kW					
Isentropic Efficiency	77.2	Percent					
Capaci Note: Graph is only a visual re Note: Y-Axis Scale, 10 to 35, + 5kW	ity (ACFM)  presentation of the data in Section /100acfm increments if necessary a						
	MODEL DATA - FOR COM  Manufacturer: Hertz Kompressoren  Model Number: IMPETUS VSD 185  X Air-cooled 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)  230.6 Max  188.9  152.0  118.8  86.4  53.2 Min  Total Package Input Power at Zero Flow <sup>c, d</sup> Isentropic Efficiency   Solution  Solution  Solution  Solution  Note: Graph is only a visual form of the proper of the control of the property of the control of the control of the property of the control of the	MODEL DATA - FOR COMPRESSED AIR           Manufacturer:         Hertz Kompressoren           Model Number:         IMPETUS VSD 185         Date:           X         Air-cooled         Water-cooled         Type:           X         Oil-injected         Oil-free         # of Stages:           Rated Operating Pressure         100         Drive Motor Nominal Rating         250           Drive Motor Nominal Efficiency         96.7         Fan Motor Nominal Efficiency         86 / 83           Fan Motor Nominal Efficiency         86 / 83         Capacity (acfm) <sup>a,d</sup> 230.6         Max         1338.8           188.9         1130.4         152.0           922.1         118.8         713.7           86.4         505.4         53.2           Min         297.0         Total Package Input Power at Zero Flow <sup>c, d</sup> 24.3           Isentropic Efficiency         77.2         77.2					

\*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



- 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

Vo	olume Flow Rate		Specific Energy	<u> </u>
at sp	pecified conditions	Volume Flow Rate	Consumption	No Load / Zero Flow Power
m <sup>3</sup> / min	ft³ / 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	

12/19 Rev 3 This form was developed by the Compressed Air and Gas Institute for the use of its members participating in the PVP. CAGI has not independently verified the reported data.