

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 Kompr	essoren								
Model Number:	IMPETUS VS	SD 110		Dat	e:	04	1/25/23			
Air-co	ooled X Water-co	oled		Тур	e:	\$	Screw			
X Oil-in	jected Oil-free	ed Oil-free			s:	2				
Rated Operating I	Pressure		150			psig ^b				
Drive Motor Non	inal Rating		150			hp				
Drive Motor Non	otor Nominal Efficiency			96.5		percent				
Fan Motor Nomir	or Nominal Rating (if applicable)			N/A		hp				
Fan Motor Nomir	tor Nominal Efficiency			N/A		percent				
Input Power (kW)			Capacity (acfm) ^{a,d}			Specific Power (kW/100 acfm) ^d				
133.9	133.9 Max			683.9		19.57				
116.4			589.4			19.75				
102.5			513.0			19.98				
86.1		416.0			20.71					
72.7		332.0			21.90					
58.0 Min		234.3			24.76					
Total Package Inp	otal Package Input Power at Zero Flow ^{c, d}			17.2		kW				
Isentropic Efficier	opic Efficiency			84.5		Percent				
Specific Power (RW/100 ACFM)	Note: Graph is o Note: Y-Axis Scale, 10	Capacit nly a visual rep to 35, + 5kW/l	y (ACFM) resentation of 00acfm increm	the data in Sec		900	1000			
	Model Number: Air-cc X Oil-in Rated Operating F Drive Motor Nom Pan Motor Nomin Fan Motor Nomin In 133.9 116.4 102.5 86.1 72.7 58.0 Total Package Inp Isentropic Efficier	Model Number: Air-cooled X Water-co X Oil-injected Oil-free Rated Operating Pressure Drive Motor Nominal Rating Drive Motor Nominal Efficiency Fan Motor Nominal Rating (if applicable) Fan Motor Nominal Efficiency Input Power (kW) 133.9 116.4 102.5 86.1 72.7 58.0 Total Package Input Power at Zero Flow Isentropic Efficiency 30.00 Note: Graph is o Note: Y-Axis Scale, If	Model Number: IMPETUS VSD 110 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) 133.9 Max 116.4 102.5 86.1 72.7 58.0 Min Total Package Input Power at Zero Flow ^{c, d} Isentropic Efficiency Solution 15.00 S	Model Number: IMPETUS VSD 110 Air-cooled X Water-cooled X Oil-injected Oil-free # Rated Operating Pressure Drive Motor Nominal Rating 1 Drive Motor Nominal Efficiency 99 Fan Motor Nominal Efficiency Nominal Efficiency 1 Fan Motor Nominal Efficiency Nomin	Model Number: IMPETUS VSD 110 Date	Model Number: IMPETUS VSD 110 Date: Air-cooled X Water-cooled Type: X Oil-injected Oil-free # of Stages: Rated Operating Pressure 150 Drive Motor Nominal Rating 150 Drive Motor Nominal Efficiency 96.5 Fan Motor Nominal Efficiency N/A Fan Motor Nominal Efficiency N/A Input Power (kW) Capacity (acfm) a.d 133.9 Max 683.9 116.4 589.4 102.5 513.0 86.1 416.0 72.7 332.0 58.0 Min 234.3 Total Package Input Power at Zero Flow 17.2 Isentropic Efficiency 84.5 Note: Graph is only a visual representation of the data in Section 8 Note: Graph is only a visual representation of the data in Section 8 Note: Graph is only a visual representation of the data in Section 8 Note: Graph is only a visual representation of the data in Section 8 Note: Graph is only a visual representation of the data in Section 8	Model Number: IMPETUS VSD 110 Air-cooled X Water-cooled Type: 5 X Oil-injected Oil-free # of Stages: Rated Operating Pressure 150 Drive Motor Nominal Rating 150 Drive Motor Nominal Efficiency 96.5 Fan Motor Nominal Efficiency 96.5 Fan Motor Nominal Efficiency N/A Fan Motor Nominal Efficiency N/A Input Power (kW) Capacity (acfm) ^{a,d} Spec (kW/ 133.9 Max 683.9 116.4 589.4 102.5 513.0 86.1 416.0 72.7 332.0 58.0 Min 234.3 Total Package Input Power at Zero Flow ^{c, d} 17.2 Isentropic Efficiency 84.5 P Note: Graph is only a visual representation of the data in Section 8 Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10t 55. † SkW100ach increments if necessary above 35	Model Number: IMPETUS VSD 110 Date: 04/25/23		

^{*}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

Compressed Air & Gas Institute

	Volume Flow Rate at specified conditions			Specific Energy	
			Volume Flow Rate	Consumption	No Load / Zero Flow Power
	m ³ / min	ft ³ / 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	±/- 10%
	Above 15	Above 529.7	+/- 4	+/- 5	

ROT 031.1

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