



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		
2	Model Number: IMPETUS VSD 90	Date:	03/07/23
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	Screw
	<input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages:	2
3	Rated Operating Pressure	100	psig ^b
4	Drive Motor Nominal Rating	125	hp
5	Drive Motor Nominal Efficiency	96.5	percent
6	Fan Motor Nominal Rating (if applicable)	3.0 / 2.0	hp
7	Fan Motor Nominal Efficiency	84 / 83	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	106.0 Max	634.6	16.70
	90.7	550.3	16.49
	74.7	453.3	16.48
	61.2	362.9	16.85
	46.4	263.7	17.58
	33.8 Min	181.8	18.58
9*	Total Package Input Power at Zero Flow ^{c, d}	14.1	kW
10	Isentropic Efficiency	79.6	Percent
11	<p>Note: Graph is only a visual representation of the data in Section 8 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

NOTES:

- 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.
- The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
- 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.
- 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 ³ / min	ft ³ / 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	

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