

## COMPRESSOR DATA SHEET

Federal Uniform Test Method for Certain Air Compressors Not Applicable

Rotary Compressor: Variable Frequency Drive

**MODEL DATA - FOR COMPRESSED AIR**

1	Manufacturer: Atlas Copco														
2	Model Number: ZR 90 VSD-10.4	Date: 01-05-2021													
	<input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled	Type: Screw													
	<input type="checkbox"/> Lubricated <input checked="" type="checkbox"/> Oil-free	# of Stages: 2													
3	Full Load Operating Pressure*(b)	150.0	psig*(b)												
4	Drive Motor Nominal Rating	120.7	hp												
5	Drive Motor Nominal Efficiency	93.5	percent												
6	Fan Motor Nominal Rating (if applicable)	--	hp												
7	Fan Motor Nominal Efficiency	--	percent												
8*	Input Power (kW)	Capacity (acfm) *(a,d)	Specific Power (kW/100 acfm)*(d)												
	114.1      Max	470.0	24.3												
	98.5	402.8	24.4												
	83.9	335.7	25.0												
	70.2	268.6	26.1												
57.3      Min	201.5	28.4													
9*	Total Package Input Power at Zero Flow*(c,d)		12.4      kW												
10	<table border="1" style="margin: 10px auto; border-collapse: collapse;"> <caption>Graph Data Points</caption> <thead> <tr> <th>Capacity (ACFM)</th> <th>Specific Power (kW/100ACFM)</th> </tr> </thead> <tbody> <tr><td>200</td><td>28.5</td></tr> <tr><td>268.6</td><td>26.1</td></tr> <tr><td>335.7</td><td>25.0</td></tr> <tr><td>402.8</td><td>24.4</td></tr> <tr><td>470.0</td><td>24.3</td></tr> </tbody> </table>			Capacity (ACFM)	Specific Power (kW/100ACFM)	200	28.5	268.6	26.1	335.7	25.0	402.8	24.4	470.0	24.3
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\*For models that are tested in the CAGI Performance Verification Program, these items are verified by program 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 and Electrical Consumption 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 15	+/- 7	+/- 8	+/- 10
0.5 to 1.5	15 to 50	+/- 6	+/- 7	
1.5 to 15	50 to 500	+/- 5	+/- 6	
Above 15	Above 500	+/- 4	+/- 5	