

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 STD-10.4	Date: 01-06-2024													
	<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	94.4	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)												
	105.5 Max	487.4	21.7												
	89.5	405.3	22.1												
	73.8	323.3	22.8												
	59.0	241.2	24.5												
	45.3 Min	159.1	28.5												
9*	Total Package Input Power at Zero Flow*(c,d)	7.7	kW												
10	<table border="1"> <caption>Data points for Specific Power vs Capacity</caption> <thead> <tr> <th>Capacity (ACFM)</th> <th>Specific Power (kW/100ACFM)</th> </tr> </thead> <tbody> <tr> <td>150</td> <td>28.5</td> </tr> <tr> <td>241.2</td> <td>24.5</td> </tr> <tr> <td>323.3</td> <td>22.8</td> </tr> <tr> <td>405.3</td> <td>22.1</td> </tr> <tr> <td>487.4</td> <td>21.7</td> </tr> </tbody> </table>			Capacity (ACFM)	Specific Power (kW/100ACFM)	150	28.5	241.2	24.5	323.3	22.8	405.3	22.1	487.4	21.7
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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

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 and Electrical Consumption 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 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	