

COMPRESSOR DATA SHEET

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: Atlas Copco		
2	Model Number: ZR 90VSD+ -150	Date: 12-14-2018	
	<input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled <input type="checkbox"/> Oil-injected <input checked="" type="checkbox"/> Oil-free	Type: Screw	
		# of Stages: 2	
3	Rated Operating Pressure	100	psig ^b
4	Drive Motor Nominal Rating	2 x 60	hp
5	Drive Motor Nominal Efficiency	97.0	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
	102.1 Max	600	17.0
	85.0	498	17.1
	69.0	396	17.4
	53.6	294	18.2
	38.9 Min	192	20.3
9*	Total Package Input Power at Zero Flow ^{c, d}		kW
10	<p style="text-align: center; font-size: small;"> 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 program administrator

Consult CAGI website for a list of participants in the third party verification program: 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.

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	



ROT 031

