

**COMPRESSOR DATA SHEET**

**Federal Uniform Test Method for Certain Air Compressors Not Applicable**

**Rotary Compressor: Fixed Speed**

<b>MODEL DATA - FOR COMPRESSED AIR</b>			
1	Manufacturer: Atlas Copco		
2	Model Number: ZR 90-9	Date:	01-04-2021
	<input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled	Type:	Screw
	<input type="checkbox"/> Oil-injected <input checked="" type="checkbox"/> Oil-free	# of Stages:	2
3*	Rated Capacity at Full Load Operating Pressure*(a,e)	510.4	(acfm) *(a,e)
4	Full Load Operating Pressure*(b)	117.0	psig*(b)
5	Maximum Full Flow Operating Pressure*(c)	130.5	psig*(c)
6	Drive Motor Nominal Rating	120.7	hp
7	Drive Motor Nominal Efficiency	95.0	percent
8	Fan Motor Nominal Rating (if applicable)	--	hp
9	Fan Motor Nominal Efficiency	--	percent
10*	Total Package Input Power at Zero Flow*(e)	23.2	kW*(e)
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure*(d)	103.9	kW*(d)
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure*(e)	20.4	kW/100 cfm*(e)

\*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:

- Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.
- The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) 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.
- Total package input power at other than reported operating points will vary with control strategy.
- 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
<u>m<sup>3</sup> / min</u>	<u>ft<sup>3</sup> / min</u>	%	%	
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	

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This form was developed by the Compressed Air and Gas Institute for the use of its members. CAGI has not independently verified the reported data.