



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:	Atlas Copco	
2	Model Number:	GA90VSD	Date: 11/30/2020
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type: Screw
			# of Stages: 1
3	Full Load Operating Pressure ^b	102	psig ^b
4	Drive Motor Nominal Rating	125	hp
5	Drive Motor Nominal Efficiency	93.7	percent
6	Fan Motor Nominal Rating (if applicable)	4.7	hp
7	Fan Motor Nominal Efficiency	77	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	112.6 Max	621.4	18.1
	97.1	545.2	17.8
	80.2	458.8	17.5
	51.6	287.7	17.9
	27.5	130.8	21.0
	20.4 Min	83.6	24.4
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	Isentropic Efficiency	75.24	%
11	<p style="text-align: center;">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:

- 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 (Item 8) and Electrical Consumption (Item 8) 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 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	



ROT 030.1



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	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type: Screw
			# of Stages: 1
3	Full Load Operating Pressure ^b	138	psig ^b
4	Drive Motor Nominal Rating	125	hp
5	Drive Motor Nominal Efficiency	93.7	percent
6	Fan Motor Nominal Rating (if applicable)	4.7	hp
7	Fan Motor Nominal Efficiency	77	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	111.4 Max	545.2	20.4
	92.3	458.2	20.1
	59.9	285.6	21.0
	45.7	205.1	22.3
	32.4	128.3	25.3
	27.9 Min	102.4	27.2
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	Isentropic Efficiency	76.33	%
11	<p style="text-align: center;">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>		

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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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3	Full Load Operating Pressure ^b	181	psig ^b
4	Drive Motor Nominal Rating	125	hp
5	Drive Motor Nominal Efficiency	93.7	percent
6	Fan Motor Nominal Rating (if applicable)	4.7	hp
7	Fan Motor Nominal Efficiency	77	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	107.5 Max	454.1	23.7
	87.7	363.9	24.1
	70.5	279.1	25.3
	54.7	200.0	27.4
	39.1	126.0	31.0
	39.1 Min	126.0	31.0
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	Isentropic Efficiency	72.46	%
11	<p align="center">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>		

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