

COMPRESSOR DATA SHEET

In Accordance with Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

		MODEL DATA	- FOR COMPRESSE	D AIR	
1 Ma	nufacturer:	Atlas Copco			
Mo	Model Number: GA90VSD+		Date:	11/30/2020	
2	Air-cooled	Water-cooled	Type:	Screw	
			# of Stages:	1	
3 F	ull Load Operating	Pressure ^b	102	psig ^b	
	Drive Motor Nominal Rating		125	hp	
5 I	Drive Motor Nominal Efficiency		96	percent	
6 F	Fan Motor Nominal Rating (if applicable)		2.6	hp	
7 F	Fan Motor Nominal Efficiency		73	percent	
	Input Power (kW)		Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d	
	109.1 Max		648.1	16.8	
Outs	78.2		480.8	16.3	
8*	58.8		361.7	16.3	
	37.8		223.9	16.9	
	27.2		150.3	18.1	
	20.6 Min		103.6	19.9	
	Total Package Input Power at Zero Flow ^{c, d}		1.1	kW	
10 I:	Isentropic Effeciency		81.60	%	
11	25.0 20.0 15.0 10.0 0.0 25.0 50.0 75.0100.0125.0150.0175.0200.0225.0250.0275.0800.0825.0850.0875.0400.0425.0450.0475.0500.0625.0550.0675.0700.0 Capacity (ACFM) 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				

*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:

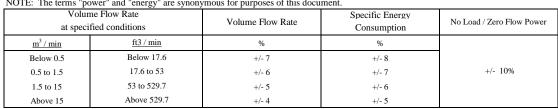
NOTES:

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.





Member

ROT 030.1

12/19 Rev 3 This form was developed by the Compressed Air and Gas Institute for the use of its members participating in the PVP. CAGI has not independently verified the reported data



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	MODEL DATA	- FOR COMPRESS	ED AIR	
1	Manufacturer: Atlas Copco			
	Model Number: GA90VSD+	Date:	11/30/2020	
2	X Air-cooled 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	96	percent	
6	Fan Motor Nominal Rating (if applicable)	2.6	hp	
7	Fan Motor Nominal Efficiency	73	percent	
	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d	
	110.2 Max	570.8	19.3	
O.I.	91.6	480.1	19.1	
8*	69.1	358.3	19.3	
	44.8	223.0	20.1	
	32.0	151.3	21.2	
	27.5 Min	126.7	21.7	
9*	Total Package Input Power at Zero Flow ^{c, d}	1.1	kW	
10	Isentropic Effeciency	81.57	%	
11	25.0 20.0 15.0 20.0 15.0 20.0 15.0 20.0 25.0 50.0 75.0 100.0125.0150.0175.0200.0225.0250.0275.0300.0325.0350.0375.0400.0425.0450.0475.0500.0525.0550.0575.0600.0 Capacity (ACFM) 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			

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Compressed Air & Gas Institute	NOTE: The terms "power" and "energy" are synony Volume Flow Rate at specified conditions		whous for purposes of this document. Volume Flow Rate Specific Energy Consumption No Load / Zero Flow		
	m ³ / min	<u>ft3 / min</u>	%	%	
	Below 0.5	Below 17.6	+/- 7	+/- 8	
ROT 030.1	0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	+/- 10%
	1.5 to 15	53 to 529.7	+/- 5	+/- 6	
	Above 15	Above 529.7	+/- 4	+/- 5	
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1	Manufacturer: Atlas Copco				
	Model Number: GA90VSD+	Date:	11/30/2020		
2	X Air-cooled Water-cooled	Type:	Screw		
		# of Stages:	1		
3	Full Load Operating Pressure ^b	181	psig ^b		
4	Drive Motor Nominal Rating	125	hp		
5	Drive Motor Nominal Efficiency	96	percent		
6	Fan Motor Nominal Rating (if applicable)	2.6	hp		
7	Fan Motor Nominal Efficiency	73	percent		
	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d		
	105.6 Max	461.4	22.9		
0.4	98.8	432.8	22.8		
8*	80.6	351.0	23.0		
	52.7	219.8	24.0		
	43.3	175.9	24.6		
	37.7 Min	150.3	25.1		
9*	Total Package Input Power at Zero Flow ^{c, d}	1.1	kW		
10	Isentropic Effeciency	77.95	%		
11	25.0 20.0 25.0 20.0 25.0 20.0 25.0 20.0 25.0 20.0 25.0 20.0 25.0 20.0 25.0 20.0 25.0				

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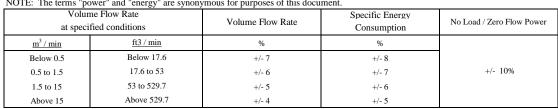
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