



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:	GA55VSD	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	75	hp
5	Drive Motor Nominal Efficiency	93.7	percent
6	Fan Motor Nominal Rating (if applicable)	2.4	hp
7	Fan Motor Nominal Efficiency	77	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	68.9 Max	375.7	18.3
	60.5	333.7	18.1
	43.5	241.5	18.0
	30.0	161.7	18.6
	23.9	123.5	19.4
	13.4 Min	55.3	24.2
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	Isentropic Efficiency	73.57	%
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	75	hp
5	Drive Motor Nominal Efficiency	93.7	percent
6	Fan Motor Nominal Rating (if applicable)	2.4	hp
7	Fan Motor Nominal Efficiency	77	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	68.5 Max	328.2	20.9
	57.9	279.3	20.7
	41.9	198.8	21.1
	34.5	159.9	21.6
	20.8	85.2	24.4
	15.1 Min	53.9	28.0
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	Isentropic Efficiency	74.71	%
11	<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>		

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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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4	Drive Motor Nominal Rating	75	hp
5	Drive Motor Nominal Efficiency	93.7	percent
6	Fan Motor Nominal Rating (if applicable)	2.4	hp
7	Fan Motor Nominal Efficiency	77	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	67.0	Max	272.9
	57.2		233.1
	48.5		193.8
	40.1		154.8
	31.8		116.4
	23.1	Min	78.5
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	Isentropic Efficiency	71.36	%
11	<div style="border: 1px solid black; padding: 10px;"> <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> </div>		

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