

# COMPRESSOR DATA SHEET

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

### **Rotary Compressor: Variable Frequency Drive**

1	Manufaatu		- FOR COMPRESS	ED AIK	
1	Manufacturer:	Atlas Copco			
2	Model Number:	GA55VSD	Date:	11/30/2020	
	X Air-cooled Water-cooled		Туре:	Screw	
			# of Stages:	1	
3	Full Load Operating	Pressure <sup>b</sup>	102	psig <sup>b</sup>	
4	Drive Motor Nomina	l Rating	75	hp	
5	Drive Motor Nomina	· ·	93.7	percent	
6	Fan Motor Nominal	Rating (if applicable)	2.4	hp	
7	Fan Motor Nominal	Efficiency	77	percent	
	Input Po	wer (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>	
	<b>68.9</b> Max		375.7	18.3	
0*	60.5	60.5		18.1	
8*	43.5	43.5		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 <sup>c, d</sup> 0.0		kW		
10	Isentropic Effeciency		73.57	%	
11	225.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0		125.0 150.0 175.0 200.0 225.0 Capacity (ACFM)		
		Note: Y-Axis Scale, 10 to 3	visual representation of the data in So 5, + 5kW/100acfm increments if necessary e, 0 to 25% over maximum capacity		

\*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator.

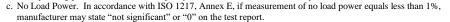
d. Tolerance is specified in ISO 1217, Annex E, as shown in table below:

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

NOTES: Member

- 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.

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NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

Gas Institute		ne Flow Rate fied conditions	Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
	<u>m<sup>3</sup> / min</u>	<u>ft3 / min</u>	%	%	
	Below 0.5	Below 17.6	+/- 7	+/- 8	
	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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Ν	Iodel Number:	GA55VSD	Date:	11/30/2020	
2	X Air-cooled	Water-cooled	Type:	Screw	
			# of Stages:	1	
3	Full Load Operating	g Pressure <sup>b</sup>	138	psig <sup>b</sup>	
4	Drive Motor Nomin		75	hp	
5	Drive Motor Nomir	nal Efficiency	93.7	percent	
6	Fan Motor Nominal	l Rating (if applicable)	2.4	hp	
7	Fan Motor Nominal	l Efficiency	77	percent	
	Input Power (kW)		Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>	
	<b>68.5</b> Max		328.2	20.9	
	57.9		279.3	20.7	
8*	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	t Power at Zero Flow <sup>c, d</sup>	0.0	kW	
10	Isentropic Effecience	су	74.71	%	
11	30 25 20 20 20 20 20 20 20 20 20 20 20 20 20	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	00.0 125.0 150.0 175.0 200 Capacity (ACFM) visual representation of the data in S 5, + 5kW100acfm increments if neces	ection 8	

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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:

le	Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
	$\underline{m}^3 / \underline{min}$	<u>ft3 / min</u>	%	%	
	Below 0.5	Below 17.6	+/- 7	+/- 8	
	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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			# of Stages:	1	
3	Full Load Operati	ng Pressure <sup>b</sup>	181	psig <sup>b</sup>	
4	Drive Motor Nom	inal Rating	75	hp	
5	Drive Motor Nom	inal Efficiency	93.7	percent	
6	Fan Motor Nomin	al Rating (if applicable)	2.4	hp	
7	Fan Motor Nomin	al Efficiency	77	percent	
	Input Power (kW)		Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>	
	<b>67.0</b> Max		272.9	24.6	
0*	57.2		233.1	24.5	
8*	48.5	;	193.8	25.0	
	40.1		154.8	25.9	
	31.8		116.4	27.3	
	<b>23.1</b> Min		78.5	29.4	
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		0.0	kW	
10	Isentropic Effeciency		71.36	%	
11	Specific Power (kW/100 ACFM)	35.0 30.0 25.0 20.0 15.0			
		Note: Y-Axis Scale, 10 to 35	100.0 125.0 150.0 175 Capacity (ACFM) risual representation of the data in Sec , + 5kW/100acfm increments if necessar , 0 to 25% over maximum capacity	ction 8	

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