

## **COMPRESSOR DATA SHEET**

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

**Rotary Compressor: Variable Frequency Drive** 

	MODEL DATA	- FOR COMPRESSI	ED AIR
1	Manufacturer: Atlas Copco		
	Model Number: GA55VSD+	Date:	11/30/2020
2	X Air-cooled Water-cooled	Type:	Screw
		# of Stages:	1
3	Full Load Operating Pressure <sup>b</sup>	102	psig <sup>b</sup>
4	Drive Motor Nominal Rating	75	hp
5	Drive Motor Nominal Efficiency	96	percent
6	Fan Motor Nominal Rating (if applicable)	2.4	hp
7	Fan Motor Nominal Efficiency	76	percent
	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	67.7 Max	398.8	17.0
Orth	59.8	355.6	16.8
8*	30.7	178.6	17.2
	25.0	140.5	17.8
	16.8	85.5	19.6
	12.4 Min	55.5	22.3
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	1.1	kW
10	Isentropic Effeciency	78.84	%
11	Note: Graph is only a Note: Y-Axis Scale, 10 to 3	25.0 150.0 175.0 200.0 225.0 25  Capacity (ACFM)  visual representation of the data in Se 5, + 5kW/100acfm increments if necesse e, 0 to 25% over maximum capacity	50.0 275.0 300.0 325.0 350.0 375.0 400.0 425.0 section 8 ary 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:

	ne Flow Rate fied conditions	Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m <sup>3</sup> / min	ft3 / min	%	%	
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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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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2	X Air-cooled Water-cooled	Type:	Screw
		# of Stages:	1
3	Full Load Operating Pressure <sup>b</sup>	138	psig <sup>b</sup>
4	Drive Motor Nominal Rating	75	hp
5	Drive Motor Nominal Efficiency	96	percent
6	Fan Motor Nominal Rating (if applicable)	2.4	hp
7	Fan Motor Nominal Efficiency	76	percent
	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>68.5</b> Ma	352.1	19.5
0.4	58.3	300.1	19.4
8*	32.7	157.8	20.7
	23.0	101.6	22.6
	20.1	84.5	23.8
	<b>14.9</b> Mi	n <b>55.0</b>	27.1
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	1.1	kW
10	Isentropic Effeciency	79.24	%
11	Note: Graph is onl Note: Y-Axis Scale, 10 t	00.0 125.0 150.0 175.0 200.0  Capacity (ACFM)  y a visual representation of the data in Stop 35. + 5kW/100acfm increments if necess cale, 0 to 25% over maximum capacity	225.0 250.0 275.0 300.0 325.0 350.0 375.0 section 8 sary above 35

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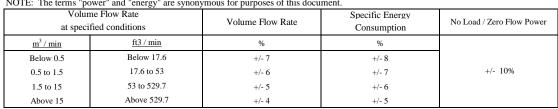
NOTES:

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.

Member

- 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.





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	Model Number: GA	A55VSD+	Date:	11/30/2020
2	X Air-cooled	Water-cooled	Type:	Screw
			# of Stages:	1
3	Full Load Operating Pressure <sup>b</sup>		181	psig <sup>b</sup>
4	Drive Motor Nominal Rating		75	hp
5	Drive Motor Nominal Efficiency		96	percent
6	Fan Motor Nominal Rating (if applicable)		2.4	hp
7	Fan Motor Nominal Efficiency		76	percent
	Input Power	(kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	67.4	Max	296.7	22.7
0.1	57.5		250.3	23.0
8*	42.0		174.9	24.0
	34.5		137.8	25.0
	27.1		101.7	26.6
	23.7	Min	85.3	27.8
9*	Total Package Input Pow	er at Zero Flow <sup>c, d</sup>	1.1 76.55	kW
10	Isentropic Effeciency	Isentropic Effeciency		%
11	25.0	25.0 50.0 75.0	100.0 125.0 150.0 175.0  Capacity (ACFM)	200.0 225.0 250.0 275.0 300.0 325.0
		Note: Y-Axis Scale, 10 to 35	Capacity (ACFM) visual representation of the data in S 5, + 5kW/100acfm increments if necess e, 0 to 25% over maximum capacity	

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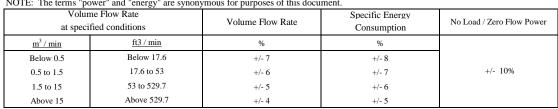
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