



## 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:	<b>Atlas Copco</b>	
2	Model Number:	<b>GA55VSD+</b>	Date: <b>6/29/2020</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type: <b>Screw</b>
			# of Stages: <b>1</b>
3	Full Load Operating Pressure <sup>b</sup>	<b>102</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>75</b>	hp
5	Drive Motor Nominal Efficiency	<b>96</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.4</b>	hp
7	Fan Motor Nominal Efficiency	<b>76</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>67.7</b> Max	<b>398.8</b>	<b>17.0</b>
	<b>59.8</b>	<b>355.6</b>	<b>16.8</b>
	<b>30.7</b>	<b>178.6</b>	<b>17.2</b>
	<b>25.0</b>	<b>140.5</b>	<b>17.8</b>
	<b>16.8</b>	<b>85.5</b>	<b>19.6</b>
	<b>12.4</b> Min	<b>55.5</b>	<b>22.3</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>1.1</b>	kW
10	Isentropic Efficiency	<b>78.84</b>	%
11	<p style="text-align: center;"><b>Note: Graph is only a visual representation of the data in Section 8</b>            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](http://www.cagi.org)

- NOTES:
- 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.
  - The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
  - 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.
  - 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 <sup>3</sup> / min	ft <sup>3</sup> / 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: <b>Screw</b>
			# of Stages: <b>1</b>
3	Full Load Operating Pressure <sup>b</sup>	<b>138</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>75</b>	hp
5	Drive Motor Nominal Efficiency	<b>96</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.4</b>	hp
7	Fan Motor Nominal Efficiency	<b>76</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>68.5</b> Max	<b>352.1</b>	<b>19.5</b>
	<b>58.3</b>	<b>300.1</b>	<b>19.4</b>
	<b>32.7</b>	<b>157.8</b>	<b>20.7</b>
	<b>23.0</b>	<b>101.6</b>	<b>22.6</b>
	<b>20.1</b>	<b>84.5</b>	<b>23.8</b>
	<b>14.9</b> Min	<b>55.0</b>	<b>27.1</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>1.1</b>	kW
10	Isentropic Efficiency	<b>79.24</b>	%
11	<p style="text-align: center;"><b>Note: Graph is only a visual representation of the data in Section 8</b>            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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Consult CAGI website for a list of participants in the third party verification program:

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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.
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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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			# of Stages: <b>1</b>
3	Full Load Operating Pressure <sup>b</sup>	<b>181</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>75</b>	hp
5	Drive Motor Nominal Efficiency	<b>96</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.4</b>	hp
7	Fan Motor Nominal Efficiency	<b>76</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>67.4</b> Max	<b>296.7</b>	<b>22.7</b>
	<b>57.5</b>	<b>250.3</b>	<b>23.0</b>
	<b>42.0</b>	<b>174.9</b>	<b>24.0</b>
	<b>34.5</b>	<b>137.8</b>	<b>25.0</b>
	<b>27.1</b>	<b>101.7</b>	<b>26.6</b>
	<b>23.7</b> Min	<b>85.3</b>	<b>27.8</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>1.1</b>	kW
10	Isentropic Efficiency	<b>76.55</b>	%
11	<p style="text-align: center;"><b>Note: Graph is only a visual representation of the data in Section 8</b>            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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