



**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>GA110VSD+</b>	Date: <b>11/30/2020</b>	
	<input type="checkbox"/> Air-cooled <input checked="" 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>150</b>	hp
5	Drive Motor Nominal Efficiency	<b>96</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>n/a</b>	hp
7	Fan Motor Nominal Efficiency	<b>n/a</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>125.1</b> Max	<b>722.5</b>	<b>17.3</b>
	<b>93.8</b>	<b>565.1</b>	<b>16.6</b>
	<b>70.2</b>	<b>435.4</b>	<b>16.1</b>
	<b>41.6</b>	<b>254.4</b>	<b>16.4</b>
	<b>24.8</b>	<b>138.2</b>	<b>17.9</b>
	<b>18.7</b> Min	<b>94.0</b>	<b>19.9</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>1.1</b>	kW
10	Isentropic Efficiency	<b>81.28</b>	%
11	<p><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:**

- 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 <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 type="checkbox"/> Air-cooled <input checked="" 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>150</b>	hp
5	Drive Motor Nominal Efficiency	<b>96</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>n/a</b>	hp
7	Fan Motor Nominal Efficiency	<b>n/a</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>127.6</b> Max	<b>645.7</b>	<b>19.8</b>
	<b>108.8</b>	<b>560.1</b>	<b>19.4</b>
	<b>82.3</b>	<b>430.6</b>	<b>19.1</b>
	<b>49.7</b>	<b>249.5</b>	<b>19.9</b>
	<b>29.9</b>	<b>136.6</b>	<b>21.9</b>
	<b>25.9</b> Min	<b>113.6</b>	<b>22.8</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>1.1</b>	kW
10	Isentropic Efficiency	<b>81.37</b>	%
11	<div style="text-align: center;"> <p style="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> </div>		

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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>150</b>	hp
5	Drive Motor Nominal Efficiency	<b>96</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>n/a</b>	hp
7	Fan Motor Nominal Efficiency	<b>n/a</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>126.4</b> Max	<b>553.1</b>	<b>22.9</b>
	<b>115.8</b>	<b>510.5</b>	<b>22.7</b>
	<b>96.5</b>	<b>421.2</b>	<b>22.9</b>
	<b>59.3</b>	<b>244.6</b>	<b>24.2</b>
	<b>41.4</b>	<b>157.3</b>	<b>26.3</b>
	<b>36.2</b> Min	<b>131.5</b>	<b>27.5</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>1.1</b>	kW
10	Isentropic Efficiency	<b>77.88</b>	%
11	<p 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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