

## Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <b>Atlas Copco</b>		
2	Model Number: <b>GA30VSD-175 C80</b>	Date: <b>3/17/2022</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>40</b>	hp
5	Drive Motor Nominal Efficiency	<b>95</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>1.1</b>	hp
7	Fan Motor Nominal Efficiency	<b>80</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>37.9</b> Max	<b>206.4</b>	<b>18.4</b>
	<b>30.0</b>	<b>168.7</b>	<b>17.8</b>
	<b>26.9</b>	<b>152.3</b>	<b>17.6</b>
	<b>24.4</b>	<b>139.0</b>	<b>17.6</b>
	<b>14.3</b>	<b>78.8</b>	<b>18.1</b>
	<b>6.9</b> Min	<b>27.7</b>	<b>24.9</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	kW
10	Isentropic Efficiency	<b>75.19</b>	%
11	<p>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](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:

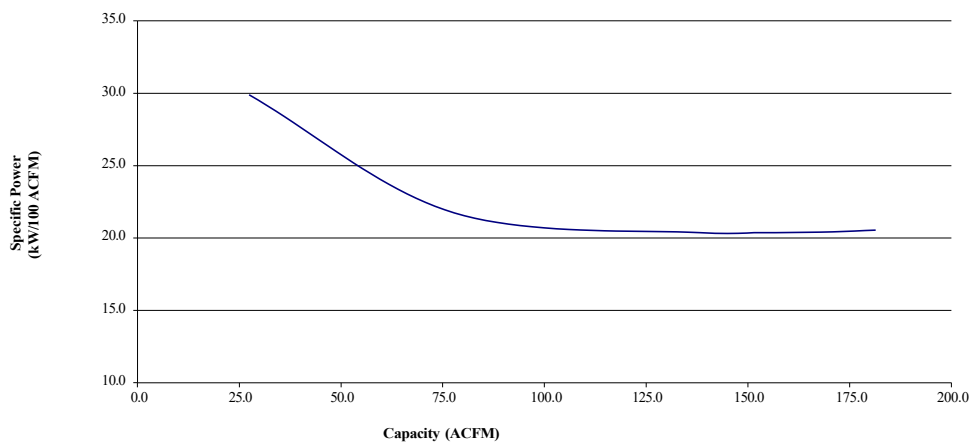
NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

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>40</b>	hp
5	Drive Motor Nominal Efficiency	<b>95</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>1.1</b>	hp
7	Fan Motor Nominal Efficiency	<b>80</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>37.3</b> Max	<b>181.4</b>	<b>20.5</b>
	<b>34.3</b>	<b>167.9</b>	<b>20.4</b>
	<b>30.9</b>	<b>151.5</b>	<b>20.4</b>
	<b>28.2</b>	<b>138.2</b>	<b>20.4</b>
	<b>16.9</b>	<b>77.8</b>	<b>21.7</b>
	<b>8.2</b> Min	<b>27.4</b>	<b>29.9</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	kW
10	Isentropic Efficiency	<b>75.96</b>	%
11	 <p>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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### NOTES:

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0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	
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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>40</b>	hp
5	Drive Motor Nominal Efficiency	<b>95</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>1.1</b>	hp
7	Fan Motor Nominal Efficiency	<b>80</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>36.2</b> Max	<b>150.5</b>	<b>24.0</b>
	<b>33.1</b>	<b>137.2</b>	<b>24.1</b>
	<b>26.6</b>	<b>107.1</b>	<b>24.8</b>
	<b>20.4</b>	<b>76.7</b>	<b>26.5</b>
	<b>14.2</b>	<b>47.4</b>	<b>30.0</b>
	<b>9.9</b> Min	<b>27.0</b>	<b>36.6</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	kW
10	Isentropic Efficiency	<b>71.67</b>	%
11	<p>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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