

## Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <b>Atlas Copco</b>		
2	Model Number: <b>GA30VSDS-150 C90</b>	Date: <b>11/11/2021</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>58</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>0.0</b>	hp
7	Fan Motor Nominal Efficiency	<b>60</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>33.8</b> Max	<b>234.1</b>	<b>14.5</b>
	<b>28.6</b>	<b>205.7</b>	<b>13.9</b>
	<b>26.2</b>	<b>192.2</b>	<b>13.7</b>
	<b>21.8</b>	<b>164.3</b>	<b>13.3</b>
	<b>15.7</b>	<b>121.8</b>	<b>12.9</b>
	<b>4.7</b> Min	<b>33.7</b>	<b>14.1</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	kW
10	Isentropic Efficiency	<b>71.69</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:

- 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	



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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>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>0.0</b>	hp
7	Fan Motor Nominal Efficiency	<b>60</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>40.2</b> Max	<b>231.4</b>	<b>17.4</b>
	<b>34.3</b>	<b>203.0</b>	<b>16.9</b>
	<b>31.7</b>	<b>189.5</b>	<b>16.7</b>
	<b>26.7</b>	<b>161.7</b>	<b>16.5</b>
	<b>19.8</b>	<b>119.7</b>	<b>16.5</b>
	<b>6.4</b> Min	<b>34.3</b>	<b>18.7</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	kW
10	Isentropic Efficiency	<b>80.00</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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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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	<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>145</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>0.0</b>	hp
7	Fan Motor Nominal Efficiency	<b>60</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>38.0</b> Max	<b>186.6</b>	<b>20.4</b>
	<b>36.5</b>	<b>179.6</b>	<b>20.4</b>
	<b>32.4</b>	<b>158.8</b>	<b>20.4</b>
	<b>24.5</b>	<b>117.1</b>	<b>20.9</b>
	<b>16.7</b>	<b>73.4</b>	<b>22.7</b>
	<b>8.4</b> Min	<b>34.3</b>	<b>24.5</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		<b>0.0</b> kW
10	Isentropic Efficiency		<b>77.34</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>		

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1.5 to 15	53 to 529.7	+/- 5	+/- 6	
Above 15	Above 529.7	+/- 4	+/- 5	



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