

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR (Preliminary Data)			
1	Manufacturer: Atlas Copco		
2	Model Number: GA15VSDS-175	Date:	2/21/2024
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	Screw
		# of Stages:	1
3	Full Load Operating Pressure ^b	145	psig ^b
4	Drive Motor Nominal Rating	20	hp
5	Drive Motor Nominal Efficiency	94.6	percent
6	Fan Motor Nominal Rating (if applicable)	0.8	hp
7	Fan Motor Nominal Efficiency	80	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	19.0 Max	81.8	23.2
	16.1	72.3	22.3
	11.0	51.3	21.4
	8.9	41.5	21.6
	7.0	31.1	22.5
	4.1 Min	13.5	30.6
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	Isentropic Efficiency	73.48	%
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

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 ³ / min	ft ³ / 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