

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: Atlas Copco		
2	Model Number: GA37VSDS-150 C90	Date: 11/11/2021	
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type: Screw	
		# of Stages: 1	
3	Full Load Operating Pressure ^b	58	psig ^b
4	Drive Motor Nominal Rating	50	hp
5	Drive Motor Nominal Efficiency	95.6	percent
6	Fan Motor Nominal Rating (if applicable)	0.0	hp
7	Fan Motor Nominal Efficiency	60	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	41.5 Max	277.0	15.0
	35.4	246.3	14.4
	34.3	240.4	14.3
	28.3	205.6	13.7
	15.8	120.9	13.0
	4.8 Min	33.3	14.4
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	Isentropic Efficiency	70.08	%
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:

- 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 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	



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3	Full Load Operating Pressure ^b	102	psig ^b
4	Drive Motor Nominal Rating	50	hp
5	Drive Motor Nominal Efficiency	95.6	percent
6	Fan Motor Nominal Rating (if applicable)	0.0	hp
7	Fan Motor Nominal Efficiency	60	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	48.6 Max	274.1	17.7
	41.8	243.4	17.2
	40.6	237.5	17.1
	33.8	202.7	16.7
	19.6	118.8	16.5
	6.4 Min	33.2	19.2
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	Isentropic Efficiency	79.70	%
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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		# of Stages: 1	
3	Full Load Operating Pressure ^b	145	psig ^b
4	Drive Motor Nominal Rating	50	hp
5	Drive Motor Nominal Efficiency	95.6	percent
6	Fan Motor Nominal Rating (if applicable)	0.0	hp
7	Fan Motor Nominal Efficiency	60	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	47.9 Max	234.8	20.4
	40.2	199.8	20.1
	31.9	158.2	20.2
	24.0	116.2	20.7
	16.2	74.4	21.8
	8.2 Min	33.2	24.5
9*	Total Package Input Power at Zero Flow ^{c, d}		0.0 kW
10	Isentropic Efficiency		79.46 %
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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