

COMPRESSOR DATA SHEET

In Accordance with Federal Uniform Test Method for Certain Lubricated Air Compressors

	-	MODEL DATA	- FOR COMPRESSEE) AIR	
1	Manufacturer:	Atlas Copco			
	Model Number:	GA30VSD-175 C80	Date:	3/17/2022	
2	X Air-cooled	0 Water-cooled	Type:	Screw	
			# of Stages:	1	
3	Full Load Operating	Pressure ^b	102	psig ^b	
4	Drive Motor Nomin	al Rating	40	hp	
5	Drive Motor Nomin	al Efficiency	95	percent	
6	Fan Motor Nominal	Rating (if applicable)	1.1	hp	
7	Fan Motor Nominal	Efficiency	80	percent	
	Input Power (kW)		Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d	
	37.9	Max	206.4	18.4	
out	30.0		168.7	17.8	
8*	26.9		152.3	17.6	
	24.4		139.0	17.6	
	14.3		78.8	18.1	
	6.9	6.9 Min		24.9	
9*		Power at Zero Flow ^{c, d}	0.0	kW	
10	Isentropic Effecience	у	75.19	%	
11	35. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30				
			75.0 100.0 125.0 Capacity (ACFM) visual representation of the data in Section 5, + 5kW/100acfm increments if necessary a		

Rotary Compressor: Variable Frequency Drive

*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator. www.cagi.org

Consult CAGI website for a list of participants in the third party verification program:

NOTES: Member

Compressed Air & Gas Institute

ROT 030.1

- 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	
<u>m³ / min</u>	<u>ft3 / min</u>	%	%		
Below 0.5	Below 17.6	+/- 7	+/- 8		
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	+/- 10%	
1.5 to 15	53 to 529.7	+/- 5	+/- 6		
Above 15	Above 529.7	+/- 4	+/- 5		

12/19 Rev 3 This form was developed by the Compressed Air and Gas Institute for the use of its members participating in the PVP. CAGI has not independently verified the reported data



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2	X Air-cooled	0 Water-cooled	Type:	Screw	
			# of Stages:	1	
3	Full Load Operatin	g Pressure ^b	138	$psig^b$	
4	Drive Motor Nomi	nal Rating	40	hp	
5	Drive Motor Nomi	nal Efficiency	95	percent	
6	Fan Motor Nomina	l Rating (if applicable)	1.1	hp	
7	Fan Motor Nomina	l Efficiency	80	percent	
	Input Power (kW)		Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d	
	37.3 Max		181.4	20.5	
~ .	34.3		167.9	20.4	
8*	30.9		151.5	20.4	
	28.2		138.2	20.4	
	16.9		77.8	21.7	
	8.2	Min	27.4	29.9	
9*		t Power at Zero Flow ^{c, d}	0.0	kW	
10	Isentropic Effecien	су	75.96	0⁄0	
11	2 Specific Power (WV100 ACFM) 2 1		75.0 100.0 Capacity (ACFM)	125.0 150.0 175.0	
		Note: Y-Axis Scale, 10 to 35	Capacity (ACFM) visual representation of the data in Secti , + 5kW/100acfm increments if necessary , 0 to 25% over maximum capacity		

Rotary Compressor: Variable Frequency Drive

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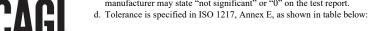
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NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

	Volume Flow Rate at specified conditions Volume Flow Rate		Specific Energy Consumption	No Load / Zero Flow Power
<u>m³ / min</u>	<u>ft3 / min</u>	%	%	
Below 0.5	Below 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	+/- 10%
1.5 to 15	53 to 529.7	+/- 5	+/- 6	
Above 15	Above 529.7	+/- 4	+/- 5	

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			# of Stages:	1	
3	Full Load Operatin	ng Pressure ^b	181	psig ^b	
4	Drive Motor Nomi	nal Rating	40	hp	
5	Drive Motor Nomi	nal Efficiency	95	percent	
6	Fan Motor Nomina	al Rating (if applicable)	1.1	hp	
7	Fan Motor Nomina	al Efficiency	80	percent	
	Input Power (kW)		Capacity (acfm) ^{a,d}	Specific Power (kW/100 a	cfm) ^d
	36.2	Max	150.5	24.0	
	33.1		137.2	24.1	
8*	26.6			24.8	
	20.4		76.7	26.5	
	14.2		47.4	30.0	
	9.9	Min	27.0	36.6	
9*	Total Package Inpu	at Power at Zero Flow ^{c, d}	0.0	kW	
10	Isentropic Effecien	cy	71.67	%	
11	2 Specific Power (KW100 ACFM) 1			0.0 125.0 150.0	
		0.0 25.0 50	0.0 75.0 100 Capacity (ACFM)	.0 125.0 150.0 1	173.0
		Note: Y-Axis Scale, 10 to 35	visual representation of the data in S 5, + 5kW/100acfm increments if necess e, 0 to 25% over maximum capacity		

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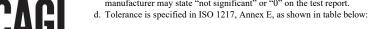
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