

## **COMPRESSOR DATA SHEET**

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

**Rotary Compressor: Variable Frequency Drive** 

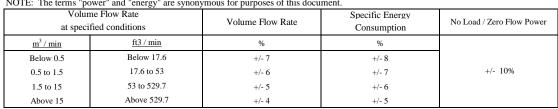
	MODEL DATA	- FOR COMPRESSI	ED AIR
1	Manufacturer: Atlas Copco		
	Model Number: GA30VSD+-175	Date:	11/30/2020
2	X Air-cooled Water-cooled	Type:	Screw
		# of Stages:	1
3	Full Load Operating Pressure <sup>b</sup>	102	psig <sup>b</sup>
4	Drive Motor Nominal Rating	40	hp
5	Drive Motor Nominal Efficiency	96.7	percent
6	Fan Motor Nominal Rating (if applicable)	3.5	hp
7	Fan Motor Nominal Efficiency	77	percent
	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	39.1 Max	206.5	18.9
Outs	30.2	168.5	17.9
8*	27.3	154.1	17.7
	16.8	95.8	17.5
	12.0	66.8	18.0
	<b>7.0</b> Min	31.8	22.0
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	0.0	kW
10	Isentropic Effeciency	74.75	%
11	Note: Y-Axis Scale, 10 to 3	75.0 100.0 125.0  Capacity (ACFM)  visual representation of the data in Sec 5, + 5kW/100acfm increments if necessare, 0 to 25% over maximum capacity	150.0 175.0 200.0 225.0 ction 8 try above 35

\*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:

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.





Member

ROT 030.1

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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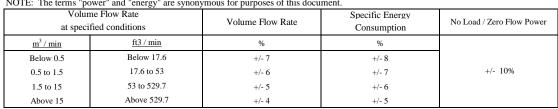
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	Model Number:	GA30VSD+-175	Date:	11/30	0/2020
2	X Air-cooled	Water-cooled	Type	Sci	rew
			# of Stages:		
3	Full Load Operatin	Full Load Operating Pressure <sup>b</sup>		psig <sup>b</sup>	
4	Drive Motor Nomin		138 40	•	ıp
5	Drive Motor Nomin		T.		
6	Fan Motor Nominal Rating (if applicable) 3.5		l l	ıp	
7	Fan Motor Nomina	l Efficiency	77	per	cent
	Input Power (kW)		Capacity (acfm) <sup>a,d</sup>	Specific Power	(kW/100 acfm) <sup>d</sup>
	38.3	Max	181.5	21	1.1
Ο¥	31.6		153.5	20	).6
8*	25.4		124.0	20	).5
	20.1		94.6	21.2	
	14.7		65.3	22.5	
	9.6	Min	36.3	20	5.4
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		0.0		W
10	Isentropic Effeciency 75.19 %		<del>%</del>		
11	Specific Power (RW/100 ACFM)	Note: Y-Axis Scale, 10 to 35	75.0 100.0  Capacity (ACFM)  visual representation of the data in 5, + 5kW/100acfm increments if nece e, 0 to 25% over maximum capacity	Section 8	75.0 200.0

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6	Fan Motor Nominal Rating (if applicable)	3.5	hp
7	Fan Motor Nominal Efficiency	77	percent
	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	37.9 M	ax 152.6	24.8
0.1	31.0	123.8	25.0
8*	24.8	93.7	26.5
	18.5	64.4	28.7
	12.8	35.4	36.2
		in 35.4	36.2
9*	Total Package Input Power at Zero Flow <sup>c, c</sup>		kW
10	Isentropic Effeciency	69.28	%
11	40.0 35.0 30.0 35.0 25.0 20.0 15.0 0.0 25.0	50.0 75.0 100.0	0 125.0 150.0 175.0
	Note: Y-Axis Scale, 10	Capacity (ACFM)  ly a visual representation of the data in Sec to 35, + 5kW/100acfm increments if necessar Scale, 0 to 25% over maximum capacity	ection 8 ary above 35

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NOTE: The terms "power" and "energy" are synony Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m³/min	ft3 / min	%	%	
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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