

COMPRESSOR DATA SHEET

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

Rotary Compressor: Variable Frequency Drive

	MODEL DATA	- FOR COMPRESSE	D AIR
1	Manufacturer: Atlas Copco		
	Model Number: GA22VSD+-175	Date:	11/30/2020
2	X Air-cooled Water-cooled	Type:	Screw
		# of Stages:	1
3	Full Load Operating Pressure ^b	102	psig ^b
4	Drive Motor Nominal Rating	30	hp
5	Drive Motor Nominal Efficiency	96.3	percent
6	Fan Motor Nominal Rating (if applicable)	3.5	hp
7	Fan Motor Nominal Efficiency	76	percent
	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	28.5 Max	157.5	18.1
	19.9	115.8	17.2
8*	16.5	95.0	17.4
	11.9	66.1	18.0
	9.6	51.7	18.6
	6.6 Min	31.4	21.0
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	Isentropic Effeciency	76.20	%
11	Note: Graph is only a Note: Y-Axis Scale, 10 to 3	0.0 75.0 100.0 Capacity (ACFM) visual representation of the data in Secti 5, + 5kW/100acfm increments if necessary le, 0 to 25% over maximum capacity	125.0 150.0 175.0 ion 8 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:

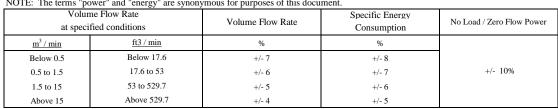
NOTES:

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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	MODEL DATA	A - FOR COMPRESSE	ED AIR
1	Manufacturer: Atlas Copco		
	Model Number: GA22VSD+-175	Date:	11/30/2020
2	X Air-cooled Water-cooled	Type:	Screw
		# of Stages:	1
3	Full Load Operating Pressure ^b	138	psig ^b
4	Drive Motor Nominal Rating	30	hp
5	Drive Motor Nominal Efficiency	96.3	percent
6	Fan Motor Nominal Rating (if applicable)	3.5	hp
7	Fan Motor Nominal Efficiency	76	percent
	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	29.6 Max	136.7	21.7
	20.7	93.9	22.0
8*	18.1	79.5	22.8
	15.4	65.1	23.7
	12.6	50.7	24.9
	10.1 Min	36.3	27.8
9*	Total Package Input Power at Zero Flow ^{c, d}	0.0	kW
10	Isentropic Effeciency	70.58	%
11	25.0 25.0 25.0 25.0 25.0	50.0 75.0 Capacity (ACFM)	100.0 125.0 150.0
	Note: Y-Axis Scale, 10 to 3	a visual representation of the data in Sec 35, +5kW/100acfm increments if necessar ale, 0 to 25% over maximum capacity	ry above 35

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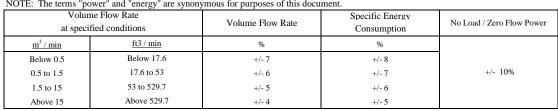
NOTES:

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.

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- b. The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
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Rotary Compressor: Variable Frequency Drive

	MODEL	DATA	- FOR COMPRESS	ED AIR	
1	Manufacturer: Atlas Copco				
	Model Number: GA22VSD+-1	75	Date:	11/30/2020	
2	X Air-cooled Water-cooled		Type:	Screw	
			# of Stages:		
3	Full Load Operating Pressure ^b		181	psig ^b	
4	Drive Motor Nominal Rating		30	hp	
5	Drive Motor Nominal Efficiency		96.3	percent	
6	Fan Motor Nominal Rating (if applicable)		3.5	hp	
7	Fan Motor Nominal Efficiency		76	percent	
	Input Power (kW)		Capacity (acfm) ^{a,d}	Specific Power (kW/1	00 acfm) ^d
	27.7	Max	113.4	24.4	
0.1	23.4		92.6	25.3	
8*	20.5		78.2	26.2	
	17.1		63.8	26.8	
	14.2		50.0	28.4	
	11.3	Min	35.8	31.6	
9*	Total Package Input Power at Zero Flow ^{c, d}		0.0	kW	
10	Isentropic Effeciency		68.75	%	
11	35.0 30.0 30.0 25.0 20.0 15.0 10.0	25.0	50.0	75.0 100.0	125.0
	Note: Y-Axis S	Scale, 10 to 35	Capacity (ACFM) visual representation of the data in S 5, + 5kW/100acfm increments if necess e, 0 to 25% over maximum capacity	section 8 sary above 35	

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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.

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N	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> </u>				Consumption		
	m ³ / min	<u>ft3 / min</u>	%	%	1	
	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		
L	Above 15	Above 529.7	+/- 4	+/- 5		



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