

# COMPRESSOR DATA SHEET

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

#### **Rotary Compressor: Variable Frequency Drive**

		MODEL DATA	- FOR COMPRESSEI	) AIR	
1 M	Ianufacturer:	Atlas Copco			
М	Iodel Number:	GA75VSD+	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>	
	Drive Motor Nomin		100	hp	
5	Drive Motor Nomin	al Efficiency	96	percent	
6	Fan Motor Nominal	Rating (if applicable)	4.7	hp	
7	Fan Motor Nominal	Efficiency	83	percent	
	Input Po	ower (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>	
	83.7	Max	476.4	17.6	
0.1	62.3		358.7	17.4	
8*	39.3		218.8	18.0	
	27.6		142.9	19.3	
	19.4		87.7	22.1	
	<b>14.9</b> Min		57.3	26.0	
	Total Package Input Power at Zero Flow <sup>c, d</sup>		0.0	kW	
10	Isentropic Effecienc	у	76.01	%	
11	30.0 25.0 20.0 20.0 20.0 20.0 15.0 10.0 10.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 175.0 200.0 225.0 250.0 275.0 300.0 3 <b>Capacity (ACFM)</b> visual representation of the data in Section , + 5 KW/100acfm increments if necessary is , 0 to 25% over maximum capacity		

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

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:

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

NOTES: Member

- 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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c. No Load Power. In accordance with ISO 1217, Annex E, if measurement of no load power equals less than 1%,



ROT 030.1

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

sInstitute	Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
	$\underline{m^3} / \underline{min}$	<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	
orm was davaloned	by the Compressed Air and (	7 In ditate for the case of its mouth a	an anaticiantian in the DVD CACI has a	ot independently verified the reported d	

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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Mod	el Number:	GA75VSD+	Date:	11/30/2020
2 <b>X</b>	Air-cooled	Water-cooled	Type:	Screw
			# of Stages: 1	
3 Fu	ll Load Operating	Pressure <sup>b</sup>	138	psig <sup>b</sup>
4 Dr	ive Motor Nomin	al Rating	100	hp
5 Di	ive Motor Nomin	al Efficiency	96	percent
6 Fa	n Motor Nominal	Rating (if applicable)	4.7	hp
7 Fa	n Motor Nominal	Efficiency	83	percent
	Input Po	ower (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	84.0	Max	419.1	20.0
3*	60.6		300.0	20.2
	38.6		179.6	21.5
	25.5		104.5	24.4
	22.6		87.1	25.9
	17.3	Min	56.7	30.5
)* To	tal Package Input	Power at Zero Flow <sup>c, d</sup>	1.1	kW
l0 Ise	Isentropic Effeciency 77.06 %			%
11	35.0 30.0 25.0 25.0 20.0 20.0 20.0 15.0 10.0 10.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 150.0 175.0 200.0 225.0 250.0 Capacity (ACFM) visual representation of the data in Sec , + 58W/100acfm increments if necessa	

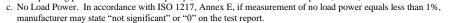
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NOTES: Member

- 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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	$\underline{m}^3 / \underline{min}$	<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	
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2	X Air-cooled	Water-cooled	Type:	Screw	
			# of Stages:	1	
3	Full Load Operation	ng Pressure <sup>b</sup>	181	psig <sup>b</sup>	
4	Drive Motor Nom		100	hp	
5	Drive Motor Nom		96	percent	
6	Fan Motor Nomin	al Rating (if applicable)	4.7	hp	
7	Fan Motor Nomin	al Efficiency	83	percent	
	Input	Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>	
	82.6	Max	353.5	23.4	
*	70.1	70.1		23.6	
*	52.6	52.6		24.5	
	37.4		141.3	26.5	
	30.0		105.2	28.5	
	26.7		88.5	30.2	
)*	Total Package Inp	ut Power at Zero Flow <sup>c, d</sup>	1.1	kW	
0	Isentropic Effecier	псу	74.60	%	
		35.0			
	-	30.0			
	Э.				
	Specific Power (kW/100 ACFM)	25.0			
	W/100	20.0			
1	(K S	20.0			
		15.0			
			0 125 0 150 0 175 0 200 0		
		0.0 25.0 50.0 75.0 100		225.0 250.0 275.0 300.0 325.0 350.0 375.0	
			Capacity (ACFM) a visual representation of the data in Se		
			35, + 5kW/100acfm increments if necess ile, 0 to 25% over maximum capacity	ary above 35	

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