

### **COMPRESSOR DATA SHEET**

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

**Rotary Compressor: Variable Frequency Drive** 

MODEL DATA - FOR COMPRESSED AIR							
1	Manufacturer: Atlas Copco						
	Model Number: GA37VSD-175 C80	Date:	3/17/2022				
2	X Air-cooled 0 Water-cooled	Туре:	Screw				
		# of Stages:	1				
3	Full Load Operating Pressure <sup>b</sup>	102	psig <sup>b</sup>				
4	Drive Motor Nominal Rating	50	hp				
5	Drive Motor Nominal Efficiency	95.6	percent				
6	Fan Motor Nominal Rating (if applicable)	1.8	hp				
7	Fan Motor Nominal Efficiency	80	percent				
	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>				
	47.0 Max	244.9	19.2				
0.4	33.4	186.3	17.9				
8*	29.9	168.7	17.7				
	24.4	139.0	17.6				
	14.4	78.8	18.3				
	7.1 Min	27.7	25.6				
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	0.0	kW				
10	Isentropic Effeciency	74.32	%				
11	Note: Graph is only Note: Y-Axis Scale, 10 to	5.0 100.0 125.0 150.0  Capacity (ACFM)  a visual representation of the data in 8 35, + 5kW/100acfm increments if necessale, 0 to 25% over maximum capacity	175.0 200.0 225.0 250.0 275.0  Section 8 sary above 35				

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

Consult CAGI websitefor a list of participants in the third party verification program: <a href="www.cagi.org">www.cagi.org</a>

NOTES:

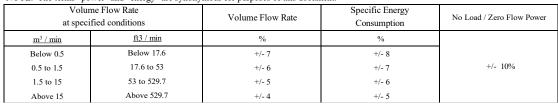
a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E;
 ACFM is actual cubic feet per minute at inlet conditions.

Member

Compressed Air & Gas Institute

- 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.



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 Number: GA37	VSD-175 C80	Date:	3/17/2022			
2	X Air-cooled 0 Water-cooled		Туре:	Screw			
			# of Stages:	1			
3	Full Load Operating Pressure	)	138	psig <sup>b</sup>			
4	Drive Motor Nominal Rating		50	hp			
5	Drive Motor Nominal Efficien	ncy	95.6	percent			
6	Fan Motor Nominal Rating (i	f applicable)	1.8	hp			
7	Fan Motor Nominal Efficienc	y	80	percent			
	Input Power (kW	)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>			
	45.8	Max	217.9	21.0			
	38.0		185.4	20.5			
8*	34.2		167.9	20.3			
	28.1		138.2	20.3			
	17.0		77.8	21.8			
	8.4	Min	27.4	30.6			
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		0.0	kW			
10	Isentropic Effeciency		76.40	%			
11		Note: Graph is only a te: Y-Axis Scale, 10 to 35	75.0 100.0 125.0 15  Capacity (ACFM)  visual representation of the data in Sect. 5, + 5kW/100acfm increments if necessary e, 0 to 25% over maximum capacity	tion 8 y above 35			

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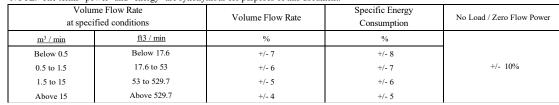
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 ACFM is actual cubic feet per minute at inlet conditions.

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	Model Number:	GA37VSD-175 C80	Date:	3/17/2022			
2	X Air-cooled 0 Water-cooled		Type:	Screw			
			# of Stages:	1			
3	Full Load Operating	; Pressure <sup>b</sup>	181	psig <sup>b</sup>			
4	Drive Motor Nomin	al Rating	50	hp			
5	Drive Motor Nomin	al Efficiency	95.6	percent			
6	Fan Motor Nominal	Fan Motor Nominal Rating (if applicable)		hp			
7	Fan Motor Nominal	Efficiency	80	percent			
	Input Po	ower (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>			
	44.2	Max	184.2	24.0			
	39.8		166.8	23.9			
8*	33.0		137.2	24.1			
	26.6		107.1	24.8			
	14.3		47.4	30.2			
	10.1	Min	27.0	37.2			
9*		Power at Zero Flow <sup>c, d</sup>	0.0	kW			
10	Isentropic Effecience	y	73.66	%			
11	35.0 30.0 25.0 20.0 20.0 35.0 36.0 36.0 36.0 36.0 36.0 36.0 36.0 36	Note: Graph is only a Note: Y-Axis Scale, 10 to 3:	75.0 100.0  Capacity (ACFM)  visual representation of the data in Se 5, + 5kW/100acfm increments if necessa e, 0 to 25% over maximum capacity	125.0 150.0 175.0 200.0 ection 8 ary above 35			

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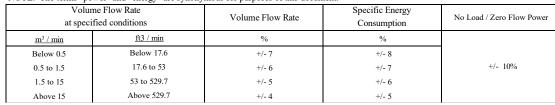
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