

## **COMPRESSOR DATA SHEET**

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

**Rotary Compressor: Variable Frequency Drive** 

	MODEL DATA	- FOR COMPRESS	ED AIR
1	Manufacturer: Atlas Copco		
	Model Number: GA37VSD+-175 C80	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	50	hp
5	Drive Motor Nominal Efficiency	96.8	percent
6	Fan Motor Nominal Rating (if applicable)	4.0	hp
7	Fan Motor Nominal Efficiency	87	percent
	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>49.1</b> Max	243.4	20.2
O ele	35.2	189.7	18.6
8*	27.6	153.5	18.0
	17.1	96.5	17.7
	12.4	66.4	18.7
	7.3 Min	31.4	23.2
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	0.0	kW
10	Isentropic Effeciency	72.50	%
11	Note: Y-Axis Scale, 10 to 3	0 100.0 125.0 150.0  Capacity (ACFM)  visual representation of the data in S 5, +5kW/100acfm increments if necess e, 0 to 25% over maximum capacity	175.0 200.0 225.0 250.0 275.0 ection 8 sary 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.

Member

- 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		V-1 Fl D-4-	Specific Energy	No Load / Zero Flow Power			
at spec	ecified conditions Volume Flow Rate Consumption No Load		No Load / Zero Flow Power				
m <sup>3</sup> / 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				





## **COMPRESSOR DATA SHEET**

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

**Rotary Compressor: Variable Frequency Drive** 

	MODEL DATA	A - FOR COMPRESS	ED AIR
1	Manufacturer: Atlas Copco		
	Model Number: GA37VSD+-175 C80	Date:	11/30/2020
2	X Air-cooled Water-cooled	Type:	Screw
		# of Stages:	1
3	Full Load Operating Pressure <sup>b</sup>	138	psig <sup>b</sup>
4	Drive Motor Nominal Rating	50	hp
5	Drive Motor Nominal Efficiency	96.8	percent
6	Fan Motor Nominal Rating (if applicable)	4.0	hp
7	Fan Motor Nominal Efficiency	87	percent
	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>49.6</b> Max	216.5	22.9
Ωψ	41.4	187.4	22.1
8*	33.0	152.2	21.7
	21.1	94.6	22.3
	16.1	65.1	24.7
	<b>11.1</b> Min	36.3	30.6
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	0.0	kW
10	Isentropic Effeciency	71.29	<u>%</u>
11	Note: Y-Axis Scale, 10 to 3	75.0 100.0 125.0  Capacity (ACFM)  a visual representation of the data in S 15, + 5kW/100acfm increments if necess le, 0 to 25% over maximum capacity	150.0 175.0 200.0 225.0 250.0 Section 8 sary 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:

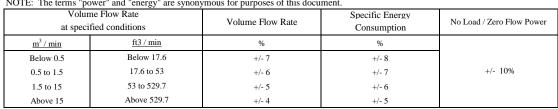
NOTES:

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



## **COMPRESSOR DATA SHEET**

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

**Rotary Compressor: Variable Frequency Drive** 

		MODEL DATA	- FOR COMPRES	SSED AIR		
1	Manufacturer: At	las Copco				
	Model Number: GA37VSD+-175 C80		Date	: 11/30/2020		
2	X Air-cooled Water-cooled		Туре	e: Screw	Screw	
			# of Stages			
3	Full Load Operating Pres	Full Load Operating Pressure <sup>b</sup>		psig <sup>b</sup>		
4	Drive Motor Nominal Rating		50	hp		
5	Drive Motor Nominal Efficiency		96.8	percent		
6	Fan Motor Nominal Rating (if applicable)		4.0	hp		
7	Fan Motor Nominal Effic	Fan Motor Nominal Efficiency		percent		
	Input Power (kW)		Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/1	00 acfm) <sup>d</sup>	
	46.9	<b>46.9</b> Max		25.6	25.6	
0.1	37.5		151.4	24.8		
8*	30.5	30.5		24.8		
	24.1		93.5	25.8	25.8	
	18.1		63.8	28.4	28.4	
	12.3 Min		34.8	35.3		
9*	Total Package Input Powe	er at Zero Flow <sup>c, d</sup>	0.0	kW		
10	Isentropic Effeciency		71.37	%		
11	35.0  30.0  30.0  25.0  20.0  15.0  10.0  0.0	25.0 50.0	75.0 100.0	125.0 150.0 175.0	200.0	
		Note: Y-Axis Scale, 10 to 35	Capacity (ACFM) visual representation of the data i , + 5kW/100acfm increments if nec , 0 to 25% over maximum capacity	cessary 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:

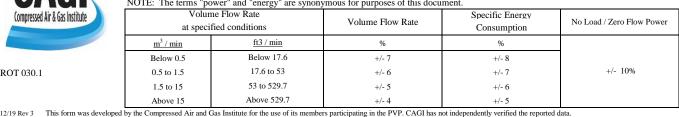
NOTES:

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