

## COMPRESSOR DATA SHEET

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

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

		MODEL DATA	- FOR COMPRESSEI	D AIR	
1	Manufacturer:	Atlas Copco			
	Model Number:	GA15VSD+-175	Date:	11/30/2020	
2	X Air-cooled Water-cooled		Type:	Screw	
			# of Stages:	1	
3	Full Load Operating	g Pressure <sup>b</sup>	102	psig <sup>b</sup>	
4	Drive Motor Nomir	al Rating	20	hp	
5	Drive Motor Nomir	al Efficiency	94.5	percent	
6	Fan Motor Nomina	Rating (if applicable)	0.3	hp	
7	Fan Motor Nomina	Efficiency	73	percent	
	Input Power (kW)		Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>	
	18.3 Max		88.6	20.7	
0.1	15.1		77.0	19.6	
8*	11.1		59.4	18.7	
	7.5		39.9	18.8	
	4.4		20.6	21.4	
	<b>3.6</b> Min		15.1	23.8	
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		0.0	kW	
10	Isentropic Effecience	су.	69.65	%	
11	25 20 20 20 20 20 20 20 20 20 20 20 20 20		50.0	75.0	100.0
			Capacity (ACFM) isual representation of the data in Section , + 5kW/100acfm increments if necessary a		

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

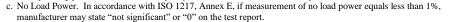
d. Tolerance is specified in ISO 1217, Annex E, as shown in table below:

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

Gas Institute	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			
s 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:	GA15VSD+-175	Date:	11/30/2020		
2	X Air-cooled	Water-cooled	Туре:	Screw		
			# of Stages: 1			
3	Full Load Operatin	σ Pressure <sup>b</sup>	138	psig <sup>b</sup>		
4	Drive Motor Nomi		20	hp		
5	Drive Motor Nomi		94.5	percent		
6		l Rating (if applicable)	0.3	hp		
7	Fan Motor Nomina		73	percent		
	Input Power (kW)		Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100	Specific Power (kW/100 acfm) <sup>d</sup>	
	17.2	17.2 Max		22.8		
~ .	13.5		60.6	22.3	22.3	
8*	10.8		48.8	22.1		
	7.0		29.0	24.1		
	4.7		16.3	28.8		
	4.5	Min	14.4	31.3		
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		0.0	kW		
10	Isentropic Effecien	су	69.69	%		
11	2 Specific Power (KW100 ACFM) 5 1 1					
	1	0.0 25.0	50.0	75.0	100.0	
		Note: Y-Axis Scale, 10 to 35	Capacity (ACFM) isual representation of the data in Sec + 5kW/100acfm increments if necessa , 0 to 25% over maximum capacity			

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.
  - 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.



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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.

Institute		ne Flow Rate fied 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			
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	Model Number: GA15V	SD+-175	Date:	11/30/2020	
2	X Air-cooled Water-cooled		Type:	Screw	
			# of Stages:	1	
3	Full Load Operating Pressure <sup>b</sup>		181	psig <sup>b</sup>	
4	Drive Motor Nominal Rating		20	hp	
5	Drive Motor Nominal Efficien	cy	94.5	percent	
6	Fan Motor Nominal Rating (if	applicable)	0.3	hp	
7	Fan Motor Nominal Efficiency		73	percent	
	Input Power (kW)		Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>	
	15.6	Max	59.1	26.4	
	12.7		47.7	26.6	
8*	10.5		37.9	27.7	
	8.5		28.2	30.1	
	6.6		19.1	34.6	
	6.0	Min	15.5	38.7	
9*	Total Package Input Power at 2	Zero Flow <sup>c, d</sup>	0.0	kW	
10	Isentropic Effeciency		64.97	%	1
	45.0				
	40.0	\			
	35.0				
	30.0				
	100 A				
11					
	20.0				—
	15.0				
	10.0				
	0.0		25.0	50.0	75.0
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		Y-Axis Scale, 10 to 35	isual representation of the data in Section , + 5kW/100acfm increments if necessary a , 0 to 25% over maximum capacity		

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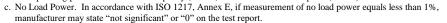
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NOTES: Member

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	Below 0.5	Below 17.6	+/- 7	+/- 8					
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