

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								
Manufacturer:	Atlas Copco							
Model Number: G200VSD-145-145 O Air-cooled X Water-cooled		Date:	7/22/2020					
		Type: Screw						
		# of Stages:	1					
Full Load Operating Pressure ^b		145	psig ^b					
Drive Motor Nominal Rating		268	hp					
Drive Motor Nominal Efficiency		95	percent					
Fan Motor Nominal Rating (if applicable)		1.0	hp					
Fan Motor Nominal Efficiency		40.6	percent					
Input Power (kW)		Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d					
212.5 Max		1073.0	19.8					
167.8		861.0	19.5					
123.8		641.0	19.3					
82.0		417.0	19.7					
73.1		364.0	20.1					
73.1 Min		364.0	20.1					
Total Package Input Power at Zero Flow ^{c, d}		0.0	kW					
Isentropic Efficiency		83.13	%					
Specific Power (KW/100 ACFM) 25.0 20.0 15.0 10.0 Capacity (ACFM)								
	Model Number: O Air-cooled Full Load Operating Drive Motor Nominal Drive Motor Nominal Fan Motor Nominal Input P 212.5 167.8 123.8 82.0 73.1 Total Package Input Isentropic Efficiency 35 30 30 30 30 30 30 30 30 30 30 30 30 30	Manufacturer: Model Number: G200VSD-145-145 Water-cooled Full Load Operating Pressure Drive Motor Nominal Rating Drive Motor Nominal Efficiency Fan Motor Nominal Efficiency Input Power (kW) 212.5 Max 167.8 123.8 82.0 73.1 73.1 Min Total Package Input Power at Zero Flow ^{c, d} Isentropic Efficiency 35.0 30.0 30.0 15.0 Model Number: G200VSD-145-145 Water-cooled Water-cooled	Manufacturer: Atlas Copco Model Number: G200VSD-145-145 Date: 0 Air-cooled X Water-cooled Type: # of Stages: # of Stages: Full Load Operating Pressure ^b 145 Drive Motor Nominal Rating 268 Drive Motor Nominal Efficiency 95 Fan Motor Nominal Efficiency 40.6 Input Power (kW) Capacity (acfm) ^{a,d} 212.5 Max 1073.0 167.8 861.0 123.8 641.0 82.0 417.0 73.1 364.0 73.1 Min Total Package Input Power at Zero Flow ^{c, d} 0.0 Isentropic Efficiency 83.13					

*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 "nower" and "energy" are synonymous for purposes of this document

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	Volume Flow Rate		Volume Flow Rate	Specific Energy	No Load / Zero Flow Power			
	at specified conditions			Consumption				
	$\underline{m}^3 / \underline{\min}$	ft3 / min	%	%				
	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				

Note: Graph is only a visual representation of the data in Section $\bf 8$ Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35...



Member

ROT 030.1

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.