

COMPRESSOR DATA SHEET



Federal Uniform Test Method for Certain Air Compressors Not Applicable

Rotary Compressor: Variable Displacement

MODEL DATA - FOR COMPRESSED AIR				
1	Manufacturer: Gardner Denver			
2	Model Number: SAV-500hp-EAY-125psi		Date:	01/04/21
	<input checked="" type="checkbox"/> Air-cooled	<input type="checkbox"/> Water-cooled	Type:	Screw
	<input checked="" type="checkbox"/> Lubricated	<input type="checkbox"/> Oil Free	# of Stages:	1
3*	Full Load Operating Pressure ^b	125	psig ^b	
4	Drive Motor Nominal Rating	500	hp	
5	Drive Motor Nominal Efficiency	96.2	percent	
6	Fan Motor Nominal Rating (if applicable)	20	hp	
7	Fan Motor Nominal Efficiency	89.5	percent	
8*	Input Power (kW)	Capacity (acfm) ^{a,d}		Specific Power (kW/100 acfm) ^d
	450.0	2118		21.25
	418.2	1906		21.94
	362.0	1483		24.41
	315.3	1059		29.77
301.4	847		35.58	
9*	Total Package Input Power at Zero Flow ^{c, d}		84.9	kW
10	<p style="font-size: small; text-align: center;"> Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35 X-Axis Scale, 0 to 25% over maximum capacity </p>			

*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: www.cagi.org



Member

- 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.

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m ³ / min	ft ³ / 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	

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