

Rotary Compressor: Variable Displacement

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: Gardner Denver		
2	Model Number: SAV 300 hp, EAU, 100 psi	Date:	05/05/17
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	Screw
	<input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages:	1
3	Rated Operating Pressure	100	psig ^b
4	Drive Motor Nominal Rating	300	hp
5	Drive Motor Nominal Efficiency	95.8	percent
6	Fan Motor Nominal Rating (if applicable)	10	hp
7	Fan Motor Nominal Efficiency	89.5	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	277.7 Max	1481	18.75
	259.0	1333	19.43
	224.2	1037	21.62
	195.2	741	26.37
9*	186.7 40%	592	31.51
10	Total Package Input Power at Zero Flow ^{c, d} 71.5 kW		

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

*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

NOTES:

- 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.
- The operating pressure at which the Capacity and Electrical Consumption were measured for this data sheet.
- 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.
- 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

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 15	+/- 7	+/- 8	+/- 10%
0.5 to 1.5	15 to 50	+/- 6	+/- 7	
1.5 to 15	50 to 500	+/- 5	+/- 6	
Above 15	Above 500	+/- 4	+/- 5	