

### Rotary Compressor: Variable Displacement

#### MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: <b>Gardner Denver</b>		
2	Model Number: <b>SAV 500 hp, EAY, 150 psi</b>	Date:	<b>05/05/17</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	<b>Screw</b>
	<input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages:	<b>1</b>
3	Rated Operating Pressure	<b>150</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>500</b>	hp
5	Drive Motor Nominal Efficiency	<b>96.2</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>20</b>	hp
7	Fan Motor Nominal Efficiency	<b>87.5</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>409.7</b> Max	<b>1634</b>	<b>25.07</b>
	<b>382.1</b>	<b>1470</b>	<b>26.00</b>
	<b>330.9</b>	<b>1144</b>	<b>28.93</b>
	<b>288.4</b>	<b>817</b>	<b>35.30</b>
9*	<b>275.8</b> 40%	<b>654</b>	<b>42.20</b>
	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>89.6</b>	kW
10	<p style="text-align: center;"> <b>Note: Graph is only a visual representation of the data in Section 8</b>            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](http://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
$\text{m}^3 / \text{min}$	$\text{ft}^3 / \text{min}$	%	%	
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	

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