## **COMPRESSOR DATA SHEET**



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

**Rotary Compressor: Variable Displacement** 

MODEL DATA - FOR COMPRESSED AIR									
Manufacturer:	Gardn	er Denver							
Model Number: SAV-250hp-EAU-125psi Date:							01/04/21		
X Air-coo	oled	Water-cooled	d		Type:		Screw		
X Lubricated Oil Free					# of Stages:		1		
3* Full Load Operating Pressure b				125		psig			
Drive Motor Nominal Rating				250		hp			
5 Drive Motor Nominal Efficiency				95.8		percent			
Fan Motor Nominal Rating (if applicable)			)	10		hp			
7 Fan Motor Nominal Efficiency				88.5		percent			
Input Power (kW)			C	apacity (acfm) <sup>a,d</sup>	(	•			
232.7				1089		21.37			
216.2				980		22.06			
187.4				762		24.59			
163.4				545		29.98			
156.3				436		35.85			
1 otal Package Input Power at Zero Flow			c, d	45.6		kW			
Isentropic Efficiency at Full Flow Rated Capacity and Full Load Operating Pressure				70.3		%			
Specific Power (kW/100 ACFM)	40.00 35.00 30.00 25.00 20.00 15.00 10.00 0	lote: Y-Axis Scale,	only a visual re 10 to 35, + 5kW/	presentation of the data i	n Section 8 essary above 35	0000	1200		
	Model Number:  X Air-coo X Lubric: Full Load Opera Drive Motor Nor Fan Motor Nor Input Powe  232.7  216.2  187.4  163.4  Total Package II Isentropic Effic Capacity and Fu	Model Number: SAV-2  X Air-cooled  X Lubricated  Full Load Operating Pressur  Drive Motor Nominal Rating  Drive Motor Nominal Efficient  Fan Motor Nominal Efficient  Input Power (kW)  232.7  216.2  187.4  163.4  156.3  Total Package Input Power at Isentropic Efficiency at Full Capacity and Full Load Ope  40.00  35.00  40.00  35.00  15.00  10.0	Model Number: SAV-250hp-EAU-  X Air-cooled Water-cooled X Lubricated Oil Free  Full Load Operating Pressure  Drive Motor Nominal Rating  Drive Motor Nominal Efficiency  Fan Motor Nominal Efficiency  Input Power (kW)  232.7  216.2  187.4  163.4  156.3  Total Package Input Power at Zero Flow  Isentropic Efficiency at Full Flow Rated Capacity and Full Load Operating Pressure  40.00  35.00  Note: Graph is Note: Y-Axis Scale, Note: Y-Axis Scale,	Model Number: SAV-250hp-EAU-125psi  X	Model Number: SAV-250hp-EAU-125psi  X Air-cooled Water-cooled  X Lubricated Oil Free  Full Load Operating Pressure  Full Load Operating Pressure  Drive Motor Nominal Rating  250  Drive Motor Nominal Efficiency  95.8  Fan Motor Nominal Rating (if applicable)  Fan Motor Nominal Efficiency  88.5  Input Power (kW)  Capacity (acfm)  232.7  1089  216.2  980  187.4  762  163.4  545  156.3  Total Package Input Power at Zero Flow  Capacity and Full Load Operating Pressure  70.3	Model Number:         SAV-250hp-EAU-125psi         Date:           X         Air-cooled         Water-cooled         Type:           X         Lubricated         Oil Free         # of Stages:           Full Load Operating Pressure         125           Drive Motor Nominal Rating         250           Drive Motor Nominal Efficiency         95.8           Fan Motor Nominal Efficiency         88.5           Input Power (kW)         Capacity (acfm) <sup>a,d</sup> 232.7         1089           216.2         980           187.4         762           163.4         545           156.3         436           Total Package Input Power at Zero Flow c, d         45.6           Isentropic Efficiency at Full Flow Rated Capacity and Full Load Operating Pressure         70.3	Model Number: SAV-250hp-EAU-125psi   Date:	Model Number: SAV-250hp-EAU-125psi	

\*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: <a href="www.cagi.org">www.cagi.org</a>



- 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.

Member

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
$\underline{m}^3 / \underline{min}$	<u>ft<sup>3</sup> / 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	

ROT 032.1

6/20. Rev2 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.

Configurator: EAU99AA