COMPRESSOR DATA SHEET

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer:	**SULLIVAN PALATEK**		
2	Model Number: **SP16-100VFD**		Date:	**9/2/2015**
	[X] Air-cooled [ ] Water-cooled		Type:	**SCREW**
	[X] Oil-injected [ ] Oil-free		# of Stages:	**1**
3	Rated Operating Pressure	**125**		psig[b]
4	Drive Motor Nominal Rating	**100**		hp
5	Drive Motor Nominal Efficiency	**95.4**		percent
6	Fan Motor Nominal Rating (if applicable)	**2**		hp
7	Fan Motor Nominal Efficiency	**88.5**		percent
8*	Input Power (kW)		Capacity (acfm)[a,d]	Specific Power (kW/100 acfm)[d]
	92.8	Max	**440.1**	**21.09**
	83.0		**396.0**	**20.96**
	74.0		**352.0**	**21.02**
	58.4		**264.0**	**22.13**
	44.5		**176.0**	**25.28**
	37.7	Min	**132.0**	**28.56**
9*	Total Package Input Power at Zero Flow[c, d]		**0.0**	kW

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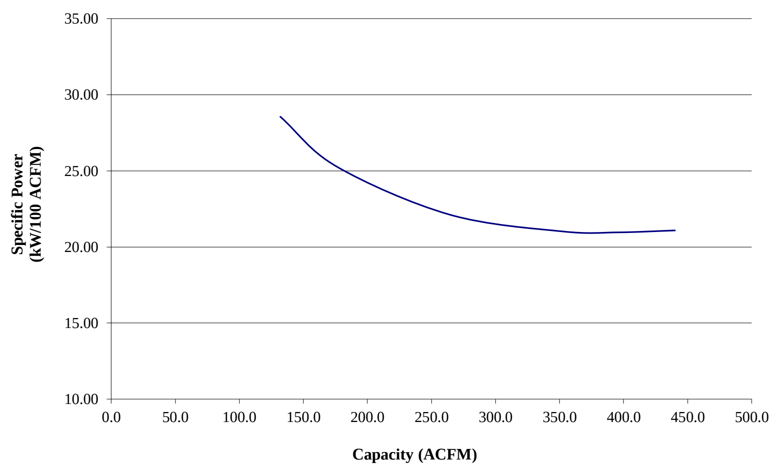

Note: Graph is only a visual representation of the data in Section 8
Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35
X-Axis Scale, 0 to 25% over maximum capacity

*For models that are tested in the CAGI Performance Verification Program, these items are verified by program administrator
Consult CAGI website for a list of participants in the third party verification program: www.cagi.org

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 and Electrical Consumption 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.

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Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m^3 / min	ft3 / min	%	%	
Below 0.5	Below 15	+/- 7	+/- 8	
0.5 to 1.5	15 to 50	+/- 6	+/- 7	+/- 10%
1.5 to 15	50 to 500	+/- 5	+/- 6	
Above 15	Above 500	+/- 4	+/- 5	

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10/11 R7 This form was developed by the Compressed Air and Gas Institute for the use of its members. CAGI has not independently verified the reported data.