



COMPRESSOR DATA SHEET

In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR				
1	Manufacturer: Kaishan Compressor USA			
2	Model Number: KRSP-50-125 VSD		Date:	08/30/20
	<input checked="" type="checkbox"/> Air-cooled	<input type="checkbox"/> Water-cooled	Type:	Screw
	# of Stages:			1
3*	Full Load Operating Pressure ^b	125	psig ^b	
4	Drive Motor Nominal Rating	50	hp	
5	Drive Motor Nominal Efficiency	94.5	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
	49.8	236		21.10
	34.5	163		21.17
	25.8	112		23.04
	20.9	88		23.75
14.2	53		26.79	
9*	Total Package Input Power at Zero Flow ^{c, d}		0.0	kW
10	Isentropic Efficiency		69.40	%
11	<p style="text-align: center; font-size: small;"> 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

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	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

ROT 031.1