



## COMPRESSOR DATA SHEET

Federal Uniform Test Method for Certain Air Compressors Not Applicable

Rotary Compressor: Variable Frequency Drive

### MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: <b>Kaishan Compressor USA</b>		
2	Model Number: <b>KRSP2-450-125 VSD</b>		Date: <b>07/12/21</b>
	<input checked="" type="checkbox"/> Air-cooled	<input type="checkbox"/> Water-cooled	Type: <b>Screw</b>
	<input checked="" type="checkbox"/> Lubricated	<input type="checkbox"/> Oil Free	# of Stages: <b>2</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>125</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>450</b>	hp
5	Drive Motor Nominal Efficiency	<b>96.2</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>15&amp;4</b>	hp
7	Fan Motor Nominal Efficiency	<b>91.7&amp;89.1</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	409.4	<b>2350</b>	<b>17.42</b>
	290.7	<b>1645</b>	<b>17.67</b>
	253.8	<b>1410</b>	<b>18.00</b>
	217.0	<b>1175</b>	<b>18.47</b>
176.0	<b>940</b>	<b>18.72</b>	
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		kW
10	Isentropic Efficiency	<b>84.11</b>	%
11	<p style="text-align: center; font-size: small;"> <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:

- 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 <sup>3</sup> / min	ft <sup>3</sup> / min	%	%	%
Below 0.5	Below 17.6	+/- 7	+/- 8	+/- 10%
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	
Above 15	Above 529.7	+/- 4	+/- 5	

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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.