

**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: <b>Kaishan Compressor USA</b>		
2	Model Number: <b>KPE-900-150 VSD</b>	Date: <b>01/08/26</b>	
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type: <b>Screw</b>	
		# of Stages: <b>2</b>	
3*	Full Load Operating Pressure <sup>b</sup>	<b>100</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>200</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.1</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>3</b>	hp
7	Fan Motor Nominal Efficiency	<b>89.3</b>	percent
8*	Input Power (kW)	Capacity (acfpm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	165.0	<b>764</b>	<b>21.60</b>
	140.9	<b>647</b>	<b>21.77</b>
	116.7	<b>531</b>	<b>22.00</b>
	93.7	<b>416</b>	<b>22.52</b>
	70.6	<b>302</b>	<b>23.41</b>
9*	Total Package Input Power at Zero Flow <sup>c,d</sup>	<b>0.0</b>	kW
10	Isentropic Efficiency	<b>59.82</b>	%
11	<p>Note: Graph is only a visual representation of the data in Section 8  Note: Y-Axis Scale, 10 to 35, + 5kW/100acfim 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 (Item 8) and Electrical Consumption (Item 8) 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
m <sup>3</sup> / min	ft <sup>3</sup> / 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	

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