## **COMPRESSOR DATA SHEET**

Federal Uniform Test Method for Certain Air Compressors Not Applicable

**Rotary Compressor: Variable Frequency Drive** 

Image constant       Image constant       Image constant         X       Lubricated       Oil Free       # of Stages:       2         3**       Full Load Operating Pressure       125       psight         4       Drive Motor Nominal Rating       250       hp         5       Drive Motor Nominal Efficiency       96.2       percent         6       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         7       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         7       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         7       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         7       Input Power (kW)       Capacity (acfm) <sup>a,d</sup> Specific Power         216.5       1278       16.94         147.0       895       16.42         128.3       767       16.73         109.7       639       17.17         89.0       511       17.42         **       Total Package Input Power at Zero Flow <sup>c, d</sup> 0.0       kW         00       Isentropic Efficiency       89.45       %	1	Manufacturer:	Kaishan Compresso	or USA			
Image concernent       Indication       Image concernent       Image concernent         X       Lubricated       Oil Free       # of Stages:       2         3*       Full Load Operating Pressure       125       psight         4       Drive Motor Nominal Rating       250       hp         5       Drive Motor Nominal Efficiency       96.2       percent         6       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         7       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         8       Input Power (kW)       Capacity (acfm) <sup>a,d</sup> Specific Power (kW/100 acfm) <sup>d</sup> 216.5       1278       16.94         3*       147.0       895       16.42         128.3       767       16.73         109.7       639       17.17         89.0       511       17.42         9*       Total Package Input Power at Zero Flow <sup>c, d</sup> 0.0       kW         10       Isentropic Efficiency       89.45       %         11       17.42       3000       3000       3000         3000       2000       2000       3000       400		Model Number:	KRSP2-250-125 VSD	)	Date:	07/12/21	
11       Loor Loor Loor Laded	2						
1         2         1         2           4         Drive Motor Nominal Rating         250         hp           5         Drive Motor Nominal Efficiency         96.2         percent           6         Fan Motor Nominal Rating (if applicable)         7.5 & 1.5         hp           7         Fan Motor Nominal Efficiency         87.5 & 91.0         percent           7         Fan Motor Nominal Efficiency         87.5 & 91.0         percent           8         Input Power (kW)         Capacity (acfm) <sup>a,d</sup> Specific Power (kW/100 acfm) <sup>d</sup> 216.5         1278         16.94           3*         147.0         895         16.42           128.3         767         16.73           109.7         639         17.17           89.0         511         17.42           9*         Total Package Input Power at Zero Flow <sup>c, d</sup> 0.0         kW           10         Isentropic Efficiency         89.45         %	2.14		h	105	# of Stages:	. b	
5       Drive Motor Nominal Efficiency       96.2       percent         6       Fan Motor Nominal Rating (if applicable)       7.5 & 1.5       hp         7       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         7       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         7       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         7       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         7       Input Power (kW)       Capacity (acfm) <sup>a,d</sup> Specific Power         216.5       1278       16.94       147.0       895       16.42         128.3       767       16.73       109.7       639       17.17         109.7       639       17.17       89.0       \$WW       WW         10       Isentropic Efficiency       89.45       %       \$WW       \$WW       \$WW         10       Isentropic Efficiency       25.00       \$0.0       \$WW       \$WW       \$WW       \$WW       \$WW         11       Image: State	_						
6       Fan Motor Nominal Rating (if applicable)       7.5 & 1.5       hp         7       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         7       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         1       Input Power (kW)       Capacity (acfm) <sup>a,d</sup> Specific Power (kW/100 acfm) <sup>d</sup> 216.5       1278       16.94         3*       147.0       895       16.42         128.3       767       16.73         109.7       639       17.17         89.0       511       17.42         >*       Total Package Input Power at Zero Flow <sup>c, d</sup> 0.0       kW         10       Isentropic Efficiency       89.45       %         11       1       30.00       30.00       50.00         90.9       25.00       25.00       25.00       25.00         91.4       90.0       10.0       10.0       10.0         11       10.0       10.0       10.0       10.0         90.0       25.00       25.00       25.00       10.0         90.0       0.00       10.0       10.0       10.0	4		0			hp	
7       Fan Motor Nominal Efficiency       87.5 & 91.0       percent         Input Power (kW)       Capacity (acfm) <sup>a,d</sup> Specific Power (kW/100 acfm) <sup>d</sup> 216.5       1278       16.94         3*       147.0       895       16.42         128.3       767       16.73         109.7       639       17.17         89.0       511       17.42 $0^{**}$ Total Package Input Power at Zero Flow <sup>c, d</sup> 0.0       kW $10$ Isentropic Efficiency       89.45       %	5					percent	
Input Power (kW)         Capacity (acfm) <sup>a,d</sup> Specific Power (kW/100 acfm) <sup>d</sup> 216.5         1278         16.94           3*         147.0         895         16.42           128.3         767         16.73           109.7         639         17.17           89.0         511         17.42           )*         Total Package Input Power at Zero Flow <sup>c, d</sup> 0.0         kW           10         Isentropic Efficiency         89.45         %	6	Fan Motor Nominal	Rating (if applicable)	7.5 &1.5		hp	
Input Power (kW)       Capacity (acfm) <sup>a,d</sup> (kW/100 acfm) <sup>d</sup> 216.5       1278       16.94         3*       147.0       895       16.42         128.3       767       16.73         109.7       639       17.17         89.0       511       17.42         *       Total Package Input Power at Zero Flow <sup>c, d</sup> 0.0       kW         10       Isentropic Efficiency       89.45       %         11 $\frac{35.00}{30.00}$ $\frac{35.00}{25.00}$ $\frac{35.00}{25.00}$ 11 $\frac{35.00}{25.00}$ $\frac{35.00}{25.00}$ $\frac{35.00}{25.00}$	7	Fan Motor Nominal Efficiency		87.5 & 91.0		4	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Input Power (kV	V)	Capacity (acfm)	an	-	
128.3     767     16.73       109.7     639     17.17       89.0     511     17.42       )*     Total Package Input Power at Zero Flow <sup>c, d</sup> 0.0     kW       10     Isentropic Efficiency     89.45     %		216.5		1278			
109.7         639         17.17           89.0         511         17.42           0*         Total Package Input Power at Zero Flow <sup>c, d</sup> 0.0         kW           10         Isentropic Efficiency         89.45         %           11         35.00         30.00         30.00	8*	147.0		895		16.42	
11 $89.0$ $89.0$ $511$ $17.42$ $89.0$ $kW$ $0.0$ $kW$ $89.45$ $9$ $89.45$ $9$		128.3		767		16.73	
D*     Total Package Input Power at Zero Flow     c, d     0.0     kW       10     Isentropic Efficiency     89.45     %		109.7		639		17.17	
Protectage input Power at Zero Flow     0.0     KW       10     Isentropic Efficiency     89.45     %		89.0		511		17.42	
11 35.00 30.00 30.00 25.00 20.00 20.00	9*	Total Package Input	Power at Zero Flow <sup>c, d</sup>	0.0		kW	
30.00 30.00 25.00 20.00 20.00 20.00	10	Isentropic Efficiency		89.45		%	
10.00	11	30. <b>15.</b> 30. <b>15.</b> 30. <b>15.</b> 30. <b>15.</b> 30. <b>15.</b>					

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 the third party administrator Consult CAGI website for a list of participants in the third party verification program: <u>www.cagi.org</u>



KAISHAN



ROT 031.2

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 RateSpecific EnergyConsumption		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	17 1070	
Г 031.2	Above 15	Above 529.7	+/- 4	+/- 5		

12/19 R3 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.