

COMPRESSOR DATA SHEET

KAESER

COMPRESSORS

Federal Uniform Test Method for Certain Air Compressors Not Applicable

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: Kaeser Compressor, Inc.			
2	Model Number: FSG 500-2 W SFC 145 psig / 460V/3ph/60Hz		Date:	07/01/20
	<input type="checkbox"/> Air-cooled	<input checked="" type="checkbox"/> Water-cooled	Type:	Screw
	<input type="checkbox"/> Lubricated	<input checked="" type="checkbox"/> Oil Free	# of Stages:	2
3*	Full Load Operating Pressure ^b		145	psig ^b
4	Drive Motor Nominal Rating		450	hp
5	Drive Motor Nominal Efficiency		96.8	percent
6	Fan Motor Nominal Rating (if applicable)		2.0	hp
7	Fan Motor Nominal Efficiency		88.5	percent
8*	Input Power (kW)		Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	369.4		1700	21.73
	296.7		1412	21.01
	258.7		1239	20.88
	209.1		960	21.78
	166.2		702	23.68
9*	Total Package Input Power at Zero Flow ^{c, d}		0.0	kW
10	<div><div><div><div>Specific Power (kW/100 ACFM)</div><div>35.00</div><div>30.00</div><div>25.00</div><div>20.00</div><div>15.00</div><div>10.00</div></div><div><div>0</div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div><div>1400</div><div>1600</div><div>1800</div></div></div><div><div>Capacity (ACFM)</div><div>Note: Graph is only a visual representation of the data in Section 8</div><div>Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35</div><div>X-Axis Scale, 0 to 25% over maximum capacity</div></div></div>			

*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

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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	+/- 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.