

COMPRESSOR DATA SHEET
Rotary Compressor: Fixed Speed

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: Kaeser Compressors, Inc.		
2	Model Number: FSD 450 - 175 psig / 460V/3ph/60Hz	Date:	10/31/2011
	<input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled	Type:	Screw
	<input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages:	1
3*	Rated Capacity at Full Load Operating Pressure ^{a, e}	1497	acfm ^{a, e}
4	Full Load Operating Pressure ^b	165	psig ^b
5	Maximum Full Flow Operating Pressure ^c	175	psig ^c
6	Drive Motor Nominal Rating	450	hp
7	Drive Motor Nominal Efficiency	96.3	percent
8	Fan Motor Nominal Rating (if applicable)	0.4	hp
9	Fan Motor Nominal Efficiency	75	percent
10*	Total Package Input Power at Zero Flow ^e	66.3	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	331.4	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	22.1	kW/100 cfm ^e

*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

Member:

- NOTES:
- Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.
 - The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
 - Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
 - Total package input power at other than reported operating points will vary with control strategy.
 - Tolerance is specified in ISO 1217, Annex C, as shown in table below:



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 15	+/- 7	+/- 8	+/- 10%
0.5 to 1.5	15 to 50	+/- 6	+/- 7	
1.5 to 15	50 to 500	+/- 5	+/- 6	
Above 15	Above 500	+/- 4	+/- 5	

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