

COMPRESSOR DATA SHEET
Rotary Compressor: Fixed Speed

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: Kaeser Compressors, Inc.		
2	Model Number: ESD 250 - 125 psig / 460V/3ph/60Hz	Date:	8/29/2011
	<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}	1264	acfm ^{a, e}
4	Full Load Operating Pressure ^b	115	psig ^b
5	Maximum Full Flow Operating Pressure ^c	125	psig ^c
6	Drive Motor Nominal Rating	250	hp
7	Drive Motor Nominal Efficiency	96.2	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	51.1	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	215.7	kW ^d
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^e	17.1	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:
- a. 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.
 - b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
 - c. 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.
 - d. Total package input power at other than reported operating points will vary with control strategy.
 - e. 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 +/- 10%
m ³ / min	ft ³ / min			
Below 0.5	Below 15	+/- 7	+/- 8	
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	

ROT 030