

COMPRESSOR DATA SHEET
Rotary Compressor: Variable Frequency Drive



MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer:	ELGi		
2	Model Number:	EG 45V-125	Date:	03/14/2018
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type:	SCREW
	<input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free		# of Stages:	1
3	Rated Operating Pressure	125	psig ^b	
4	Drive Motor Nominal Rating	60	hp	
5	Drive Motor Nominal Efficiency	95	percent	
6	Fan Motor Nominal Rating (if applicable)	2.9	hp	
7	Fan Motor Nominal Efficiency	NA	percent	
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d	
	55.9 Max	266.0	21.01	
	50.2	235.0	21.39	
	44.3	202.0	21.91	
	38.4	171.0	22.49	
	32.5	140.0	23.20	
	26.6 Min	110.0	24.11	
9*	Total Package Input Power at Zero Flow ^{c, d}	0.00	kW	
10	<p>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</p>			

*For models that are tested in the CAGI Performance Verification Program, these items are verified by program administrator

Consult CAGI website for a list of participants in the third party verification program: 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 and Electrical Consumption 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.

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	

Member



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This form was developed by the Compressed Air and Gas Institute for the use of its members. CAGI has not independently verified the reported data.