

COMPRESSOR DATA SHEET
Rotary Compressor: Variable Frequency Drive



MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: ELGi		
2	Model Number: EG 30V-175	Date: 10/29/2017	SCREW
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	
	<input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages: 1	
3	Rated Operating Pressure	175	psig ^b
4	Drive Motor Nominal Rating	40	hp
5	Drive Motor Nominal Efficiency	94.1	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
	38.0 Max	136.0	27.97
	33.6	118.0	28.50
	29.2	100.0	29.23
	27.0	91.0	29.61
	24.8	82.0	30.08
	20.4 Min	65.0	31.23
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	

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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.