



**PERFORMANCE VERIFICATION PROGRAMME DATA SHEET**  
**ROTARY COMPRESSOR: VARIABLE SPEED / FREQUENCY DRIVE**



MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	ELGi			
2	Model No:	EG 11-13 V		Date:	9/11/2025
	✓	Air Cooled	Please State:	Type:	Screw
	-	Water Cooled		# of SS:	SS
	-	Other			
3 Full Load Operating Pressure      12.5      bar g					
4 Drive Motor Nominal Rating      11.0      kW					
5 Drive Motor Nominal Efficiency      91.4%      % (percent)					
6 Fan Motor Nominal Rating (if applicable)      0.19 X 1      kW					
7 Fan Motor Nominal Efficiency      NA      % (percent)					
8	Range	Input Power (kW)	Capacity (m <sup>3</sup> /min)	Specific Power (kW/m <sup>3</sup> /min)	Isentropic Efficiency (%)
	Maximum Speed 100%	13.98	1.36	10.28	62.62%
		12.99	1.19	10.92	58.97%
		11.57	1.05	11.02	58.42%
		10.15	0.88	11.53	55.81%
	Minimum Speed	7.85	0.57	13.77	46.74%
9 Total Package Input Power at Zero Flow      0.00      kW					
10	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); margin-right: 10px;">Specific Power (kW/m<sup>3</sup>/min)</div> </div> <p align="center">Capacity (m<sup>3</sup>/min)</p> <p align="center"><small>Note: Graph is only a visual representation of the data in Section 8            Note: Y-Axis Scale, 4 to 10, + 1kW/m<sup>3</sup>/min increments X-Axis Scale, 0 to 25% over maximum capacity</small></p>				

\*For models that are tested in the BCAS Data Sheet & Verification Programme, these items are verified by the third party administrator. Consult BCAS website for a list of participants in the third party verification programme: [www.bcas.org.uk](http://www.bcas.org.uk)

**Notes:**

- a. Measured at the discharge terminal point of the compressor in accordance with ISO1217, Annex E; m<sup>3</sup>/min is cubic metres 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 ISO1217, 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 ISO1217, Annex E, as shown in table below:
- e. 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 <sup>3</sup> /min	%	%	%
Below 0.5	+/- 7	+/- 8	+/- 10
0.5 to 1.5	+/- 6	+/- 7	
1.5 to 15	+/- 5	+/- 6	
Above 15	+/- 4	+/- 5	

This form was developed by the British Compressed Air Society (BCAS) for the use of its members participating in the DS&VP. BCAS has not independently verified the reported data.