



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



MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	ELGi			
2	Model No:	EN 11-7 V		Date:	8/21/2025
	<input checked="" type="checkbox"/>	Air Cooled		Type:	Screw
	<input type="checkbox"/>	Water Cooled		# of SS:	SS
	<input type="checkbox"/>	Other	Please State:	-	
3	Full Load Operating Pressure	7.0	bar g		
4	Drive Motor Nominal Rating	11.0	kW		
5	Drive Motor Nominal Efficiency	91%	% (percent)		
6	Fan Motor Nominal Rating (if applicable)	0.179 x1	kW		
7	Fan Motor Nominal Efficiency	NA	% (percent)		
8	Range	Input Power (kW)	Capacity (m ³ /min)	Specific Power (kW/m ³ /min)	Isentropic Efficiency (%)
	Maximum Speed 100%	13.9	1.76	7.90	59.93%
		13.1	1.67	7.84	60.34%
		11.8	1.5	7.87	60.17%
		10.7	1.36	7.87	60.16%
	Minimum Speed	7.2	0.88	8.18	57.85%
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/m³/min)</div> </div> <p align="center">Capacity (m³/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/m³/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

Notes:

- a. Measured at the discharge terminal point of the compressor in accordance with ISO1217, Annex E; m³/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 ³ /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.



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ROTARY COMPRESSOR: VARIABLE SPEED / FREQUENCY DRIVE



MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	ELGi			
2	Model No:	EN 11-9.5 V		Date:	8/21/2025
	✓	Air Cooled		Type:	Screw
	-	Water Cooled		# of SS:	SS
	-	Other	Please State:	-	
3	Full Load Operating Pressure	9.5	bar g		
4	Drive Motor Nominal Rating	11.0	kW		
5	Drive Motor Nominal Efficiency	91%	% (percent)		
6	Fan Motor Nominal Rating (if applicable)	0.179 x1	kW		
7	Fan Motor Nominal Efficiency	NA	% (percent)		
8	Range	Input Power (kW)	Capacity (m ³ /min)	Specific Power (kW/m ³ /min)	Isentropic Efficiency (%)
	Minimum Speed	12.5	1.39	8.99	62.13%
		11.4	1.25	9.12	61.26%
		10.2	1.1	9.27	60.25%
		7.2	0.71	10.14	55.09%
9	Total Package Input Power at Zero Flow	0.00	kW		
10	<p align="center">Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 4 to 10, + 1kW/m³/min increments X-Axis Scale, 0 to 25% over maximum capacity</p>				

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