PERFORMANCE VERIFICATION PROGRAMME DATA SHEET



ROTARY COMPRESSOR: VARIABLE SPEED / FREQUENCY DRIVE

			MODELI	DATA - FOR COMP	RESSED AIR		
1	Manufacture	er: ELGi					
	Model No:	EN 7 7				Date:	24/06/2025
_	✓ Air Cooled				Type:	Screw	
2	- Water Cooled				# of Stages:	1	
	- Other Please State:		-				
3	Full Load Operating Pressure		7	barg			
4	Drive Motor Nominal Rating		7.5	kW	7		
5	Drive Motor Nominal Efficiency		90.1	% (percent)	7		
6	Fan Motor Nominal Rating (if applicable)			0.063	kW		
7	Fan Motor Nominal Efficiency			NA	% (percent)		
	Range		Input Power (kW)	Capacity (m3/min)	Specific Power (kW/m³/min)	Isentropic Efficiency (%)	
8	Maximum Speed 100%		9.27	1.2	7.73	61.27%	
Ū			8.60	1.08	7.96	59.44%	
	7.90			0.99	7.98	59.31%	
	7.30		0.91	8.02	59.00%		
	Minin	num Speed	5.00	0.54	9.26	51.12%	
9	Total Package Input Power at Zero Flow		0	kW			
10	Specific Power (kW/m3/min)	10.00 9.00 8.00 7.00 6.00 5.00 4.00	0.2	0.4 0.6 Capacity (m³/min)	0.8	1 1.2	1.4
	Capacity (m³/min) 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						

^{*}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	
m³/min	%	%	%	
Below 0.5	+/- 7	+/-8		
0.5 to 1.5	+/- 6	+/- 7	+/- 10	
1.5 to 15	+/- 5	+/-6	+/- 10	
Above 15	+/- 4	+/- 5		