



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



MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	ELGi			
2	Model No:	EG 11PM 7.5 V		Date:	9/11/2025
	✓	Air Cooled		Type:	Screw
	-	Water Cooled		# of SS:	SS
	-	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	96.5	% (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 ³ /min)	Specific Power (kW/m ³ /min)	Isentropic Efficiency (%)
	Maximum Speed 100%	13.90	2.12	6.56	72.19%
		11.79	1.81	6.51	72.66%
		9.68	1.49	6.50	72.85%
		7.80	1.17	6.67	71.00%
	Minimum Speed	3.82	0.48	7.96	59.47%
9	Total Package Input Power at Zero Flow	0.00	kW		
10	Specific Power (kW/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
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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MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	ELGi			
2	Model No:	EG 11PM 10 V		Date:	9/11/2025
	✓	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	96.5	% (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 ³ /min)	Specific Power (kW/m ³ /min)	Isentropic Efficiency (%)
	Maximum Speed 100%	14.34	1.87	7.67	72.85%
		12.46	1.59	7.84	71.29%
		10.48	1.31	8.00	69.83%
		8.86	1.03	8.60	64.95%
	Minimum Speed	4.88	0.48	10.17	54.95%
9	Total Package Input Power at Zero Flow	0.00	kW		
10	Specific Power (kW/m³/min) 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				

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2	Model No:	EG 11PM 8.5 V		Date:	9/11/2025
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	-	Water Cooled		# of SS:	SS
	-	Other Please State: -			
3	Full Load Operating Pressure	8.0	bar g		
4	Drive Motor Nominal Rating	11.0	kW		
5	Drive Motor Nominal Efficiency	96.5	% (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 ³ /min)	Specific Power (kW/m ³ /min)	Isentropic Efficiency (%)
	Maximum Speed 100%	14.03	1.98	7.09	71.90%
		11.97	1.68	7.13	71.51%
		9.90	1.39	7.12	71.53%
		8.00	1.09	7.34	69.42%
	Minimum Speed	4.42	0.48	9.21	55.33%
9	Total Package Input Power at Zero Flow	0.00	kW		
10	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				

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