



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



MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	ELGi			
2	Model No:	EQ 11 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	91.4%	% (percent)		
6	Fan Motor Nominal Rating (if applicable)	0.19 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%	13.02	1.84	7.08	66.89%
		11.35	1.59	7.14	66.31%
		9.94	1.33	7.47	63.33%
		8.99	1.19	7.55	62.65%
	Minimum Speed	6.52	0.79	8.25	57.35%
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.



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



MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	ELGi			
2	Model No:	EQ 11 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	91.4%	% (percent)		
6	Fan Motor Nominal Rating (if applicable)	0.19 X1	kW		
7	Fan Motor Nominal Efficiency	NA	% (percent)		
8	Range	Input Power (kW)	Capacity (m3/min)	Specific Power (kW/m ³ /min)	Isentropic Efficiency (%)
	Maximum Speed 100%	13.48	1.56	8.64	64.65%
		11.95	1.33	8.98	62.18%
		11.11	1.19	9.34	59.84%
		9.96	1.02	9.76	57.21%
	Minimum Speed	7.43	0.68	10.93	51.13%
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				

*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.



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



MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	ELGi			
2	Model No:	EQ 11 8.5 V		Date:	9/11/2025
	✓	Air Cooled		Type:	Screw
	-	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	91.4%	% (percent)		
6	Fan Motor Nominal Rating (if applicable)	0.19 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%	13.21	1.7	7.77	65.56%
		11.89	1.5	7.93	64.27%
		10.34	1.27	8.14	62.58%
		9.41	1.08	8.71	58.47%
	Minimum Speed	7.17	0.71	10.10	50.45%
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				

*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:

- 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.
- The operating pressure at which the capacity (item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
- 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.
- Tolerance is specified in ISO1217, Annex E, as shown in table below:
- 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	+/- 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.



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



MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	ELGi			
2	Model No:	EQ 11 13 V		Date:	9/11/2025
	✓	Air Cooled		Type:	Screw
	-	Water Cooled		# of SS:	SS
	-	Other	Please State:	-	
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 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%	14.05	1.27	11.06	58.18%
		12.23	1.05	11.65	55.26%
		11.6	0.88	13.18	48.83%
		10.9	0.74	14.73	43.70%
	Minimum Speed	8.4	0.45	18.67	34.48%
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				

*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.