

COMPRESSOR DATA SHEET



In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: ELGi		
2	Model Number: EG 55-125V		Date: 11/21/2022
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type: SCREW
			# of Stages: 1
3*	Full Load Operating Pressure ^b	125	psig ^b
4	Drive Motor Nominal Rating	75	hp
5	Drive Motor Nominal Efficiency	95.4	percent
6	Fan Motor Nominal Rating (if applicable)	2.08 (1.55) X 1 FAN	hp
7	Fan Motor Nominal Efficiency	NA	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	68.4	343.0	19.94
	55.4	280.0	19.80
	53.6	270.0	19.84
	37.4	181.0	20.64
	26.7	113.0	23.64
9*	Total Package Input Power at Zero Flow ^{c, d}	0.00	kW
	Isentropic Efficiency	72.87	%
11	<p>Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35 X-Axis Scale, 0 to 25% over maximum capacity</p>		

*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator



Website for a list of participants in the third party verification program: www.cagi.org

- Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; ACFM is actual cubic feet 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 ISO 1217, 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 ISO 1217, Annex E, as shown in table below:
 NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

Member

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m ³ / min	ft ³ / min	%	%	%
Below 0.5	Below 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	
Above 15	Above 529.7	+/- 4	+/- 5	+/- 10%

ROT 031.1

COMPRESSOR DATA SHEET



In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: ELGi		
2	Model Number: EG 55-175V		Date: 11/21/2022
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type: SCREW
			# of Stages: 1
3*	Full Load Operating Pressure ^b	175	psig ^b
4	Drive Motor Nominal Rating	75	hp
5	Drive Motor Nominal Efficiency	95.4	percent
6	Fan Motor Nominal Rating (if applicable)	2.08 (1.55) X 1 FAN	hp
7	Fan Motor Nominal Efficiency	NA	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	66.6	271.0	24.58
	63.9	248.0	25.75
	57.9	226.0	25.62
	45.8	173.0	26.48
	41.0	151.0	27.15
	38.0	133.0	28.57
9*	Total Package Input Power at Zero Flow ^{c, d}	0.00	kW
10	Isentropic Efficiency	66.93	%
11	<p>Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35 X-Axis Scale, 0 to 25% over maximum capacity</p>		

*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator



Website for a list of participants in the third party verification program: www.cagi.org

- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; ACFM is actual cubic feet 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 ISO 1217, 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 ISO 1217, Annex E, as shown in table below:
 NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

Member

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m ³ / min	ft ³ / min	%	%	%
Below 0.5	Below 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	
Above 15	Above 529.7	+/- 4	+/- 5	+/- 10%

ROT 031.1

COMPRESSOR DATA SHEET



In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: ELGi		
2	Model Number: EG 55-150V		Date: 11/21/2022
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type: SCREW
			# of Stages: 1
3*	Full Load Operating Pressure ^b	150	psig ^b
4	Drive Motor Nominal Rating	75	hp
5	Drive Motor Nominal Efficiency	95.4	percent
6	Fan Motor Nominal Rating (if applicable)	2.08 (1.55) X 1 FAN	hp
7	Fan Motor Nominal Efficiency	NA	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	64.1	288.0	22.26
	56.7	253.0	22.42
	52.2	229.0	22.81
	41.6	178.0	23.40
	36.9	155.0	23.78
9*	Total Package Input Power at Zero Flow ^{c, d}	0.00	kW
	Isentropic Efficiency	68.90	%
11	<p>Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35 X-Axis Scale, 0 to 25% over maximum capacity</p>		

*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator



Website for a list of participants in the third party verification program: www.cagi.org

- Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; ACFM is actual cubic feet 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 ISO 1217, 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 ISO 1217, Annex E, as shown in table below:
 NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

Member

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m ³ / min	ft ³ / min	%	%	%
Below 0.5	Below 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	
Above 15	Above 529.7	+/- 4	+/- 5	+/- 10%

ROT 031.1

COMPRESSOR DATA SHEET



In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: ELGi		
2	Model Number: EG 55-100V		Date: 11/21/2022
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type: SCREW
			# of Stages: 1
3*	Full Load Operating Pressure ^b	100	psig ^b
4	Drive Motor Nominal Rating	75	hp
5	Drive Motor Nominal Efficiency	95.4	percent
6	Fan Motor Nominal Rating (if applicable)	2.08 (1.55) X 1 FAN	hp
7	Fan Motor Nominal Efficiency	NA	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	68.8	375.0	18.33
	50.5	281.0	17.98
	38.0	204.0	18.65
	26.2	131.0	20.02
	23.0	111.0	20.69
	17.7	77.0	22.93
9*	Total Package Input Power at Zero Flow ^{c, d}	0.00	kW
10	Isentropic Efficiency	71.70	%
11	<p>Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35 X-Axis Scale, 0 to 25% over maximum capacity</p>		

*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator



Website for a list of participants in the third party verification program: www.cagi.org

- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; ACFM is actual cubic feet 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 ISO 1217, 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 ISO 1217, Annex E, as shown in table below:
- NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

Member

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m ³ / min	ft ³ / min	%	%	%
Below 0.5	Below 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	
Above 15	Above 529.7	+/- 4	+/- 5	+/- 10%

ROT 031.1