

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

Rotary Compressor: Variable Frequency Drive

	MODEL DATA - FO	R COMPRESSED	AIR	
1	Manufacturer: ELGi			
2	Model Number: EG 30PM-100 V X Air-cooled Water-cooled		Date:	01/25/2024 SCREW
	h		# of Stages:	1
3*	Full Load Operating Pressure ^b	100	psig b	
4	Drive Motor Nominal Rating	40	hp	
5	Drive Motor Nominal Efficiency	97.3		percent
6	Fan Motor Nominal Rating (if applicable)	0.40(0.3) / 2 FAN		hp
7	Fan Motor Nominal Efficiency	NA		percent
	Input Power (kW)	Capacity (acfm) ^{a,d}		Specific Power kW/100 acfm) ^d
	33.3	195.0	17.10	
Outs	27.7	136.0		16.72
8*	22.3	99.0		16.35
	18.9	92.0		17.66
	14.8	78.0	18.98	
	7.3	28.0		24.41
9*	Total Package Input Power at Zero Flow c, d	0.00		kW
10	Isentropic Efficiency	69.64		%
11	Note: Graph is only a vi Note: Y-Axis Scale, 10 to 35,	10 150 20 apacity(CFM) sual representation of the data in S + SkW/100acfm increments if necess 0 to 25% over maximum capacity	000 Section 8 sarry above 35	

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

	lume Flow Rate	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	+/- 10%
1.5 to 15	53 to 529.7	+/- 5	+/- 6	±/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

ROT 031.1



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Rotary Compressor: Variable Frequency Drive

	MODEL DATA - FO	OR COMPRESSED	AIR	
1	Manufacturer: ELGi			
	Model Number: EG 30PM-115 V		Date:	01/25/2024
2	X Air-cooled Water-cooled	3	Type: # of Stages:	SCREW 1
3*	Full Load Operating Pressure b	115	of Stages.	psig ^b
4	Drive Motor Nominal Rating	40		hp
5	Drive Motor Nominal Efficiency	97.3		percent
6	Fan Motor Nominal Rating (if applicable)	0.40(0.3) / 2 FAN		hp
7	Fan Motor Nominal Efficiency	NA		percent
	Input Power (kW)	Capacity (acfm) ^{a,d}		Specific Power kW/100 acfm) ^d
	35.5	180.0		19.74
8*	29.4	126.0		19.24
8**	23.6	113.0		18.74
	19.4	94.0		19.64
	14.8	72.0		20.53
	8.1	26.0		26.92
9*	Total Package Input Power at Zero Flow c, d	0.00		kW
10	Isentropic Efficiency	66.42		%
11	Note: Graph is only a v Note: Y-Axis Scale, 10 to 35,	100 150 Capacity(CFM) issual representation of the data in S + \$KW/100acfm increments if necess 0 to 25% over maximum capacity	200 Section 8 sarry above 35	

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Below 0.5	Below 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	+/- 10%
1.5 to 15	53 to 529.7	+/- 5	+/- 6	±/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

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Rotary Compressor: Variable Frequency Drive

	MODEL DATA - FO	OR COMPRESSED	AIR	
1	Manufacturer: ELGi			
	Model Number: EG 30PM-125 V		Date:	01/25/2024
2	X Air-cooled Water-cooled		Type:	SCREW
		7	of Stages:	1
3*	Full Load Operating Pressure	125		psig ^b
4	Drive Motor Nominal Rating	40	hp	
5	Drive Motor Nominal Efficiency	97.3	percent	
6	Fan Motor Nominal Rating (if applicable)	0.40(0.3) / 2 FAN		hp
7	Fan Motor Nominal Efficiency	NA		percent
	Input Power (kW) Capacity (acfm) ^{a,d}			Specific Power kW/100 acfm) ^d
	33.9	171.0	(19.94
8*	28.6	132.0	19.78	
	23.4	119.0	19.62	
	18.7	93.0	19.95	
	13.8	68.0	20.29	
	8.7	26.0	28.98	
9*	Total Package Input Power at Zero Flow c, d	0.00	kW	
10	Isentropic Efficiency	75.45		%
11		100 150 Capacity(CFM) visual representation of the data in S	200	

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1.5 to 15	53 to 529.7	+/- 5	+/- 6	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

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Rotary Compressor: Variable Frequency Drive

2 3* II 4 II 5 II 6 II 7 II 8* 9* T	Manufacturer: ELGi Model Number: EG 30PM-150 V X Air-cooled Water-cooled Full Load Operating Pressure Drive Motor Nominal Rating Drive Motor Nominal Efficiency Fan Motor Nominal Efficiency Input Power (kW) 36.9 31.2 25.6 21.7 16.9	150 40 97.3 0.40(0.3) / 2 FAN NA Capacity (acfm) ^{a,d} 164.0 115.0 99.0 85.0 65.0		01/25/2024 SCREW 1 psig b hp percent hp percent Specific Power kW/100 acfm) d 22.45 22.34 22.23 23.97
2 3* I 4 I 5 I 6 I 7 I 1 8* 9* T	Full Load Operating Pressure Drive Motor Nominal Rating Drive Motor Nominal Efficiency Fan Motor Nominal Efficiency Input Power (kW) 36.9 31.2 25.6 21.7 16.9	150 40 97.3 0.40(0.3) / 2 FAN NA Capacity (acfm) ^{a,d} 164.0 115.0 99.0 85.0	Type: # of Stages:	SCREW 1 psig ^b hp percent hp percent Specific Power kW/100 acfm) ^d 22.45 22.34 22.23
3* I 4 I 5 I 6 I 1 7 I 1 8*	Full Load Operating Pressure Drive Motor Nominal Rating Drive Motor Nominal Efficiency Fan Motor Nominal Efficiency Input Power (kW) 36.9 31.2 25.6 21.7 16.9	150 40 97.3 0.40(0.3) / 2 FAN NA Capacity (acfm) ^{a,d} 164.0 115.0 99.0 85.0	# of Stages:	1 psig b hp percent hp percent Specific Power kW/100 acfm) d 22.45 22.34 22.23
4 I 1 5 I 1 6 I 1 7 I 1 8*	Drive Motor Nominal Rating Drive Motor Nominal Efficiency Fan Motor Nominal Rating (if applicable) Fan Motor Nominal Efficiency Input Power (kW) 36.9 31.2 25.6 21.7 16.9	150 40 97.3 0.40(0.3) / 2 FAN NA Capacity (acfm) ^{a,d} 164.0 115.0 99.0 85.0		psig ^b hp percent hp percent Specific Power kW/100 acfm) ^d 22.45 22.34 22.23
4 I 1 5 I 1 6 I 1 7 I 1 8*	Drive Motor Nominal Rating Drive Motor Nominal Efficiency Fan Motor Nominal Rating (if applicable) Fan Motor Nominal Efficiency Input Power (kW) 36.9 31.2 25.6 21.7 16.9	40 97.3 0.40(0.3) / 2 FAN NA Capacity (acfm) ^{a,d} 164.0 115.0 99.0 85.0		hp percent hp percent Specific Power kW/100 acfm) ^d 22.45 22.34 22.23
4 I 1 5 I 1 6 I 1 7 I 1 8*	Drive Motor Nominal Rating Drive Motor Nominal Efficiency Fan Motor Nominal Rating (if applicable) Fan Motor Nominal Efficiency Input Power (kW) 36.9 31.2 25.6 21.7 16.9	97.3 0.40(0.3) / 2 FAN NA Capacity (acfin) ^{a,d} 164.0 115.0 99.0 85.0		hp percent hp percent Specific Power kW/100 acfm) ^d 22.45 22.34 22.23
6 I I I I I I I I I I I I I I I I I I I	Fan Motor Nominal Rating (if applicable) Fan Motor Nominal Efficiency Input Power (kW) 36.9 31.2 25.6 21.7 16.9	0.40(0.3) / 2 FAN NA Capacity (acfm) ^{a,d} 164.0 115.0 99.0 85.0		hp percent Specific Power kW/100 acfm) ^d 22.45 22.34 22.23
7 I 8* 9* T	Fan Motor Nominal Efficiency Input Power (kW) 36.9 31.2 25.6 21.7 16.9	NA Capacity (acfm) ^{a,d} 164.0 115.0 99.0 85.0		percent Specific Power kW/100 acfin) ^d 22.45 22.34 22.23
8*	Input Power (kW) 36.9 31.2 25.6 21.7 16.9	Capacity (acfm) ^{a,d} 164.0 115.0 99.0 85.0		Specific Power kW/100 acfm) ^d 22.45 22.34 22.23
9* 1	36.9 31.2 25.6 21.7 16.9	164.0 115.0 99.0 85.0		22.45 22.34 22.23
9* 1	36.9 31.2 25.6 21.7 16.9	164.0 115.0 99.0 85.0	(I	22.45 22.34 22.23
9* 1	31.2 25.6 21.7 16.9	115.0 99.0 85.0		22.34 22.23
9* 1	25.6 21.7 16.9	99.0 85.0		22.23
l l	21.7 16.9	85.0		
l l	16.9			23.97
l l		05.0	25.71	
l l	10.3	26.0	34.45	
l l	Total Package Input Power at Zero Flow c, d	0.00	kW	
10	Isentropic Efficiency	64.80	% %	
11	40 40 35 35 25 40 40 40 40 40 40 40 40 40 40 40 40 40	100 150 Capacity(CFM)	200	

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	MODEL DATA - FO	OR COMPRESSED	AIR	
1	Manufacturer: ELGi			
2	Model Number: EG 30PM-175 V X Air-cooled Water-cooled		Date: Type:	01/25/2024 SCREW
2*	Full I and Outside Duranting		# of Stages:	1 psig ^b
3*	Full Load Operating Pressure	175 40		
5	Drive Motor Nominal Rating Drive Motor Nominal Efficiency	97.3	hp	
6	Fan Motor Nominal Rating (if applicable)	0.40(0.3) / 2 FAN		percent hp
7	Fan Motor Nominal Efficiency	NA		percent
,	Input Power (kW)	Capacity (acfm) ^{a,d}		Specific Power kW/100 acfm) ^d
	34.1	134.0		25.36
8*	29.2	94.0		25.55
8.	24.2	80.0		25.74
	21.3	69.0		28.80
	17.1	53.0		31.87
	12.2	18.0		40.74
9*	Total Package Input Power at Zero Flow c, d	0.00		kW
10	Isentropic Efficiency	60.32		%
11	Note: Graph is only a v Note: Y-Axis Scale, 10 to 35,	100 18 Capacity(CFM) isual representation of the data in S + 5kW/10acfm increments if necess 0 to 25% over maximum capacity	section 8	

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