

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: <b>ELGi</b>		
2	Model Number: <b>EG 30PM-100 V</b>	Date:	<b>01/25/2024</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	<b>SCREW</b>
		# of Stages:	<b>1</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>100</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>40</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.3</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>0.40(0.3) / 2 FAN</b>	hp
7	Fan Motor Nominal Efficiency	<b>NA</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>33.3</b>	<b>195.0</b>	<b>17.10</b>
	<b>27.7</b>	<b>136.0</b>	<b>16.72</b>
	<b>22.3</b>	<b>99.0</b>	<b>16.35</b>
	<b>18.9</b>	<b>92.0</b>	<b>17.66</b>
	<b>14.8</b>	<b>78.0</b>	<b>18.98</b>
8*	<b>7.3</b>	<b>28.0</b>	<b>24.41</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	kW
10	Isentropic Efficiency	<b>69.64</b>	%
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>		

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- 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 <sup>3</sup> / min	ft <sup>3</sup> / 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	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

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: <b>ELGi</b>		
2	Model Number: <b>EG 30PM-115 V</b>		Date: <b>01/25/2024</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type: <b>SCREW</b>
			# of Stages: <b>1</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>115</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>40</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.3</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>0.40(0.3) / 2 FAN</b>	hp
7	Fan Motor Nominal Efficiency	<b>NA</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>35.5</b>	<b>180.0</b>	<b>19.74</b>
	<b>29.4</b>	<b>126.0</b>	<b>19.24</b>
	<b>23.6</b>	<b>113.0</b>	<b>18.74</b>
	<b>19.4</b>	<b>94.0</b>	<b>19.64</b>
	<b>14.8</b>	<b>72.0</b>	<b>20.53</b>
8*	<b>8.1</b>	<b>26.0</b>	<b>26.92</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	kW
10	Isentropic Efficiency	<b>66.42</b>	%
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>		

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- 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.
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Member

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m <sup>3</sup> / min	ft <sup>3</sup> / 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	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

ROT 031.1

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

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <b>ELGi</b>		
2	Model Number: <b>EG 30PM-125 V</b>		Date: <b>01/25/2024</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type: <b>SCREW</b>	
	# of Stages: <b>1</b>		
3*	Full Load Operating Pressure <sup>b</sup>	<b>125</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>40</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.3</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>0.40(0.3) / 2 FAN</b>	hp
7	Fan Motor Nominal Efficiency	<b>NA</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>33.9</b>	<b>171.0</b>	<b>19.94</b>
	<b>28.6</b>	<b>132.0</b>	<b>19.78</b>
	<b>23.4</b>	<b>119.0</b>	<b>19.62</b>
	<b>18.7</b>	<b>93.0</b>	<b>19.95</b>
	<b>13.8</b>	<b>68.0</b>	<b>20.29</b>
8*	<b>8.7</b>	<b>26.0</b>	<b>28.98</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	kW
10	Isentropic Efficiency	<b>75.45</b>	%
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>		

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- 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.
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Member

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m <sup>3</sup> / min	ft <sup>3</sup> / 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	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

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

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <b>ELGi</b>		
2	Model Number: <b>EG 30PM-150 V</b>		Date: <b>01/25/2024</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type: <b>SCREW</b>
			# of Stages: <b>1</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>150</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>40</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.3</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>0.40(0.3) / 2 FAN</b>	hp
7	Fan Motor Nominal Efficiency	<b>NA</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>36.9</b>	<b>164.0</b>	<b>22.45</b>
	<b>31.2</b>	<b>115.0</b>	<b>22.34</b>
	<b>25.6</b>	<b>99.0</b>	<b>22.23</b>
	<b>21.7</b>	<b>85.0</b>	<b>23.97</b>
	<b>16.9</b>	<b>65.0</b>	<b>25.71</b>
8*	<b>10.3</b>	<b>26.0</b>	<b>34.45</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	kW
10	Isentropic Efficiency	<b>64.80</b>	%
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>		

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m <sup>3</sup> / min	ft <sup>3</sup> / 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	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

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Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <b>ELGi</b>		
2	Model Number: <b>EG 30PM-175 V</b>	Date:	<b>01/25/2024</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	<b>SCREW</b>
		# of Stages:	<b>1</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>175</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>40</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.3</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>0.40(0.3) / 2 FAN</b>	hp
7	Fan Motor Nominal Efficiency	<b>NA</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>34.1</b>	<b>134.0</b>	<b>25.36</b>
	<b>29.2</b>	<b>94.0</b>	<b>25.55</b>
	<b>24.2</b>	<b>80.0</b>	<b>25.74</b>
	<b>21.3</b>	<b>69.0</b>	<b>28.80</b>
	<b>17.1</b>	<b>53.0</b>	<b>31.87</b>
8*	<b>12.2</b>	<b>18.0</b>	<b>40.74</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	kW
10	Isentropic Efficiency	<b>60.32</b>	%
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>		

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m <sup>3</sup> / min	ft <sup>3</sup> / 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	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

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