

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 45PM-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>60</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.6</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.08 (1.55) / 1 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>55.5</b>	<b>309.0</b>	<b>17.97</b>
	<b>46.7</b>	<b>257.0</b>	<b>17.78</b>
	<b>38.1</b>	<b>216.0</b>	<b>17.59</b>
	<b>30.9</b>	<b>179.0</b>	<b>18.19</b>
	<b>23.2</b>	<b>124.0</b>	<b>18.79</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	<b>kW</b>
	10	Isentropic Efficiency	<b>73.89</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	

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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 45PM-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>60</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.6</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.08 (1.55) / 1 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>52.1</b>	<b>287.0</b>	<b>18.14</b>
	<b>44.3</b>	<b>239.0</b>	<b>18.18</b>
	<b>36.6</b>	<b>200.0</b>	<b>18.22</b>
	<b>30.2</b>	<b>167.0</b>	<b>19.16</b>
	<b>23.1</b>	<b>114.0</b>	<b>20.10</b>
8*	<b>14.2</b>	<b>53.0</b>	<b>23.68</b>
	9* Total Package Input Power at Zero Flow <sup>c, d</sup>		
10	Isentropic Efficiency	<b>76.73</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.
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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 45PM-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>60</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.6</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.08 (1.55) / 1 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>53.1</b>	<b>270.0</b>	<b>19.68</b>
	<b>45.4</b>	<b>189.0</b>	<b>19.74</b>
	<b>37.6</b>	<b>130.0</b>	<b>19.81</b>
	<b>29.2</b>	<b>108.0</b>	<b>19.54</b>
	<b>21.0</b>	<b>74.0</b>	<b>19.28</b>
8*	<b>14.5</b>	<b>50.0</b>	<b>24.22</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	kW
10	Isentropic Efficiency	<b>64.25</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.
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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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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 45PM-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>60</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.6</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.08 (1.55) / 1 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>55.8</b>	<b>252.0</b>	<b>22.14</b>
	<b>46.8</b>	<b>219.0</b>	<b>21.84</b>
	<b>38.0</b>	<b>176.0</b>	<b>21.54</b>
	<b>31.6</b>	<b>153.0</b>	<b>22.78</b>
	<b>24.2</b>	<b>100.0</b>	<b>24.03</b>
8*	<b>17.0</b>	<b>52.0</b>	<b>28.41</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	<b>kW</b>
10	Isentropic Efficiency	<b>74.12</b>	<b>%</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.
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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 45PM-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>60</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.6</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.08 (1.55) / 1 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>52.6</b>	<b>215.0</b>	<b>24.45</b>
	<b>44.0</b>	<b>187.0</b>	<b>24.10</b>
	<b>35.7</b>	<b>150.0</b>	<b>23.74</b>
	<b>30.3</b>	<b>130.0</b>	<b>25.61</b>
	<b>23.6</b>	<b>87.0</b>	<b>27.49</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	<b>kW</b>
	10	Isentropic Efficiency	<b>72.29</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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