

# COMPRESSOR DATA SHEET

**Gardner  
Denver**

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>Gardner Denver</b>		
2	Model Number: <b>L90RS-125hp-190psi</b>		Date: <b>11/08/22</b>
	<input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled	Type: <b>Screw</b>	
	# of Stages: <b>1</b>		
3*	Full Load Operating Pressure <sup>b</sup>	<b>190</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>125</b>	hp
5	Drive Motor Nominal Efficiency	<b>95.4</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>0.9</b>	hp
7	Fan Motor Nominal Efficiency	<b>72.0</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	112.47	<b>468.4</b>	<b>24.01</b>
	96.04	<b>395.4</b>	<b>24.29</b>
	80.10	<b>321.8</b>	<b>24.89</b>
	66.60	<b>246.8</b>	<b>26.99</b>
	64.43	<b>235.7</b>	<b>27.33</b>
	62.26	<b>224.7</b>	<b>27.71</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		<b>12.5</b> kW
10	Isentropic Efficiency		<b>73.55</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>		

\*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator  
 Consult CAGI website for a list of participants in the third party verification program: [www.cagi.org](http://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 <sup>3</sup> / min	ft <sup>3</sup> / min	%	%	%
Below 0.5	Below 17.6	+/- 7	+/- 8	+/- 10%
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	

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