

# 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>Gardner Denver</b>			
2	Model Number: <b>L75RS-100hp-190psi</b>		Date:	<b>01/27/23</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>190</b>	psig <sup>b</sup>	
4	Drive Motor Nominal Rating	<b>100</b>	hp	
5	Drive Motor Nominal Efficiency	<b>94.1</b>	percent	
6	Fan Motor Nominal Rating (if applicable)	<b>3.4</b>	hp	
7	Fan Motor Nominal Efficiency	<b>76.0</b>	percent	
8*	Input Power (kW)		Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	91.60		<b>367.8</b>	<b>24.91</b>
	78.08		<b>312.1</b>	<b>25.02</b>
	65.36		<b>254.6</b>	<b>25.67</b>
	53.10		<b>196.4</b>	<b>27.04</b>
	40.86		<b>137.6</b>	<b>29.69</b>
	36.95		<b>119.2</b>	<b>31.01</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		<b>9.6</b>	<b>kW</b>
10	Isentropic Efficiency		<b>71.18</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>			

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

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