

# 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>L55RS-75hp-145psi</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>145</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating		<b>75</b>	hp
5	Drive Motor Nominal Efficiency		<b>93.6</b>	percent
6	Fan Motor Nominal Rating (if applicable)		<b>1.9</b>	hp
7	Fan Motor Nominal Efficiency		<b>85.5</b>	percent
8*	Input Power (kW)		Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	66.74		<b>318.0</b>	<b>20.99</b>
	57.38		<b>268.7</b>	<b>21.35</b>
	48.06		<b>218.9</b>	<b>21.96</b>
	38.84		<b>168.6</b>	<b>23.04</b>
	29.52		<b>118.1</b>	<b>25.00</b>
	21.89		<b>77.8</b>	<b>28.15</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>		<b>7.3</b>	kW
10	Isentropic Efficiency		<b>73.01</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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