

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: Gardner Denver		
2	Model Number: L7RS-10hp-145psi	Date: 07/21/25	
	☒ Air-cooled ☐ Water-cooled	Type: Screw	
		# of Stages: 1	
3*	Full Load Operating Pressure ^b	145	psig ^b
4	Drive Motor Nominal Rating	10	hp
5	Drive Motor Nominal Efficiency	90.2	percent
6	Fan Motor Nominal Rating (if applicable)	N/A	hp
7	Fan Motor Nominal Efficiency	N/A	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	9.58	34.8	27.48
	8.72	30.9	28.24
	7.98	26.8	29.82
	7.25	22.6	32.12
	6.53	18.3	35.70
	6.27	16.7	37.48
9*	Total Package Input Power at Zero Flow ^{c,d}		1.7 kW
10	Isentropic Efficiency		59.14 %
11	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		

*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



- 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
ROT 031.1

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	Zero Flow Power
m ³ / min	ft ³ / 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	

12/19 Rev 3 This form was developed by the Compressed Air and Gas Institute for the use of its members participating in the PVP. CAGI has not independently verified the reported data.

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Rev. A

ECO:1539166

Configurator: LRS7-11E