## **COMPRESSOR DATA SHEET**



## In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

## **Rotary Compressor: Variable Frequency Drive**

1       Manufacturer:       Gardner Denver         2       Model Number:       L07RS-10hp-125psi       Date:       07/09/20         2       X       Air-cooled       Water-cooled       Type:       Screw         3*       Full Load Operating Pressure <sup>b</sup> 130       psig <sup>b</sup> 4       Drive Motor Nominal Rating       10       hp         5       Drive Motor Nominal Efficiency       90.2       percent         6       Fan Motor Nominal Efficiency       NA       hp         7       Fan Motor Nominal Efficiency       NA       percent         9.50       37.6       25.26         8*       8.24       32.0       25.78         7.04       26.3       26.76         5.92       20.7       28.65         4.88       15.0       32.45         4.31       11.8       36.53         9*       Total Package Input Power at Zero Flow <sup>c, d</sup> 2.8       kW         10       Isentropic Efficiency       55.66       %         11       Soc       300       500       500         1000       50       100       150       200       200       300       600	Model Number:L07RS-10hp-125psiDate:07/09/202 $\overline{X}$ Air-cooled $\overline{Yype:}$ Screw# of Stages:13*Full Load Operating Pressure <sup>b</sup> 130psig <sup>b</sup> 4Drive Motor Nominal Rating10hp5Drive Motor Nominal Rating (if applicable)NAhp6Fan Motor Nominal Efficiency90.2percent6Fan Motor Nominal EfficiencyNApercent7Fan Motor Nominal EfficiencyNApercent9.5037.625.268*9.5037.69.5037.625.264.8815.032.454.3111.836.539*Total Package Input Power at Zero Flow <sup>C, d</sup> 2.8kW10Isentropic Efficiency55.669611 $\frac{4000}{500}$ $\frac{4000}{500}$ $\frac{4000}{500}$ $\frac{500}{500}$ 11 $\frac{4000}{500}$ $\frac{500}{500}$ $\frac{500}{50}$ $\frac{500}{50}$ 11 $\frac{4000}{500}$ $\frac{500}{50}$ $\frac{500}{50}$ $\frac{500}{50}$ 10Isentropic Efficiency $\frac{55.66}{50}$ $96$ 11 $\frac{4000}{500}$ $\frac{500}{50}$ $\frac{500}{50}$ $\frac{500}{50}$ 10Isentropic Efficiency $\frac{500}{50}$ $\frac{500}{50}$ $\frac{500}{50}$ 10Isentropic Strice Power at Zero Flow <sup>C, d</sup> $2.8$ $\frac{100}{50}$ 10Isentropic Strice Power at Zero Flow <sup>C, d</sup> $2.50$ $\frac{300}{50}$ 10Isentropic Strice Power at Zero Flow <sup>C</sup>		-				OR COMPRESSE		
2         X         Air-cooled         Water-cooled         Type:         Screw           3*         Full Load Operating Pressure         130         psig <sup>b</sup> 1           4         Drive Motor Nominal Rating         10         hp         1           5         Drive Motor Nominal Efficiency         90.2         percent           6         Fan Motor Nominal Efficiency         NA         hp           7         Fan Motor Nominal Efficiency         NA         percent           8*         Input Power (kW)         Capacity (acfm) <sup>a,d</sup> (kW/100 acfm) <sup>d</sup> 9.50         37.6         25.26         32.0         25.76           8*         7.04         26.3         26.76         5.92         20.7         28.65           4.31         11.8         36.53         9*         Total Package Input Power at Zero Flow <sup>C, d</sup> 2.8         kW         10         Isentropic Efficiency         55.66         96<	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1	Manuf	acturer:	Gar	dner Denver			
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4Drive Motor Nominal Rating10hp5Drive Motor Nominal Efficiency90.2percent6Fan Motor Nominal Rating (if applicable)NAhp7Fan Motor Nominal EfficiencyNApercent8*Input Power (kW)Capacity (acfm) <sup>a,d</sup> Specific Power9.5037.625.268.2432.025.787.0426.326.765.9220.728.654.8815.032.454.3111.836.539*Total Package Input Power at Zero Flow c <sup>c, d</sup> 2.8kW10Isentropic Efficiency55.66%11 $\sqrt[40.00]{30.00}_{0.00}$ $\frac{40.00}{5.00}_{0.00}$ $\frac{40.00}{5.00}_{0.00}$ $\frac{40.00}{5.00}_{0.00}$ 11 $\sqrt[40.00]{15.00}_{0.00}$ $\frac{50.00}{5.00}$ $\frac{50.00}{5.00}$ $\frac{50.00}{5.00}$ 10Isentropic Efficiency $55.66$ %11 $\sqrt[40.00]{15.00}_{0.00}$ $\frac{50.00}{5.00}$ $\frac{50.00}{5.00}$ 10.00 $\frac{50.00}{5.00}$ $\frac{50.00}{5.00}$ $\frac{50.00}{5.00}$ $\frac{50.00}{5.00}$ 11 $\sqrt[40.00]{15.00}_{0.00}$ $\frac{50.00}{5.00}$ $\frac{50.00}{5.00}$ $\frac{50.00}{5.00}$	4Drive Motor Nominal Rating10hp5Drive Motor Nominal Efficiency90.2percent6Fan Motor Nominal Rating (if applicable)NAhp7Fan Motor Nominal EfficiencyNApercent8*Input Power (kW)Capacity (acfm) <sup>a,d</sup> Specific Power9.5037.625.268*8.2432.025.787.0426.326.765.9220.728.654.8815.032.454.3111.836.539*Total Package Input Power at Zero Flow <sup>c, d</sup> 2.8kW10Isentropic Efficiency55.66%11 $\frac{40.00}{35.00}$ $\frac{40.00}{5.00}$ $\frac{50.00}{5.00}$ $\frac{50.00}{5.00}$ 10Isentropic Efficiency55.66%Note: Graph is only a visual representation of the data in Section 8 Note: YAAIS Scale, 10 0 55, 44.000 Capacity (ACFM)Note: Graph is only a visual representation of the data in Section 8 Note: YAAIS Scale, 10 0 25, 94.000 to 25% over maximum capacity	3*	Full L	oad Ope	rating Pres	sure		" of Buges.	psig
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7         Fan Motor Nominal Efficiency         NA         percent           Input Power (kW)         Capacity (acfm) <sup>a,d</sup> Specific Power (kW/100 acfm) <sup>d</sup> 9.50         37.6         25.26           8*         7.04         26.3         26.76           5.92         20.7         28.65         4.88         15.0         32.45           4.31         11.8         36.53         9*         Total Package Input Power at Zero Flow <sup>c, d</sup> 2.8         kW           10         Isentropic Efficiency         55.66         %         10         Isentropic Efficiency         55.66         %           11         Note: Graph is only a visual representation of the data is Section 8         Note: Graph is only a visual representation of the data is Section 8         Note: Graph is only a visual representation of the data is Section 8         Note: Graph is only a visual representation of the data is Section 8	7         Fan Motor Nominal Efficiency         NA         percent Specific Power (kW/100 acfm) <sup>d.d</sup> 9.50         37.6         25.26           8*         8.24         32.0         25.78           7.04         26.3         26.76           5.92         20.7         28.65           4.88         15.0         32.45           4.31         11.8         36.53           9*         Total Package Input Power at Zero Flow <sup>c, d</sup> 2.8         kW           10         Isentropic Efficiency         55.66         %           10         Isentropic Efficiency         55.66         %           11         Word of the data in Section 8 Note: Graph is only a visual representation of the data in Section 8 Note: Crash Soule, 10 0 25% over maximum capacity         30.0	5					90.2		
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	*For models that are tested in the CACI Performance Varification Program these items are varified by the third port of divident	11		Specific Power (kW/100 ACFM)	25.00	Note: Graph is only a v Note: Y-Axis Scale, 10 to 35,	Capacity (ACFM) isual representation of the data in + 5kW/100acfm increments if neces	Section 8	0 40.0
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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 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.	<ul> <li>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.</li> <li>b. The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data</li> <li>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.</li> <li>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.</li> </ul>		Ve	olume Flow	v Rate		Specific Energy	Zero Flow	
<ul> <li>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.</li> <li>b. The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data</li> <li>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.</li> <li>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.</li> </ul>	<ul> <li>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.</li> <li>b. The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data</li> <li>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.</li> <li>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.</li> </ul>		at sp	ecified co	nditions	Volume Flow Rate	Consumption	Power	
Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult can be added by the participant of the compressor package 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.         Image: Consumption of the compressor of this document.       Not Exercite the terms "power" and "energy" are synonymous for purposes of this document.         Image: Consumption of the terms "power" and "energy" are synonymous for purposes of this document.       The terms "power" Zero Flow Power         Image: Consumption of the terms	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         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.         Volume Flow Rate       Specific Energy         Zero Flow         at specified conditions       Volume Flow Rate         Consumption       Power		<u>m<sup>3</sup>/min</u> Below					%	
Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult cack at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E;       Consumption (Item 8) were measured for this data         Image: Consult cack at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E;       Image: Consumption (Item 8) were measured for this data         Image: Consumption cack at the term as the terminal point of the compressor package in the test report.       Image: Consumption (Item 8) and Electrical Consumption (Item 8) were measured for this data         Image: Consumption cack at the test report.       Image: Consumption (Item 8) and the test report.       Image: Consumption (Consumption (Consumption (Consumption (Consumption (Consumption (Consumption (Consumption (Co	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         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.         Volume Flow Rate       Volume Flow Rate       Specific Energy       Zero Flow         manufacture may       Wolume Flow Rate       Specific Energy       Zero Flow         Massecified conditions       Volume Flow Rate       Specific Energy       Zero Flow         massecified conditions       Volume Flow Rate       Consumption       Power		0.5	Бег	GW 17.0	+/- /	+/- ð		
Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         Image: Consult cack at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E;       Consumption (Item 8) were measured for this data         Image: Consumption (Item 8) and Electrical Consumption (Item 8) were measured for this data       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.         Image: Consumption (Item 8) and Electrical Consumption (Item 8) and Electrical Consumption       Note consumption         Image: Consumption (Item 8) and Electrical Consumption       Note consumption         Image: Consumption (Item 8) and Electrical Consumption       Note consumption <tr< td=""><td>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     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.     Volume Flow Rate     Volume</td><td></td><td>0.5 to 1.5</td><td>17</td><td>6 to 53</td><td>1/6</td><td>. / 7</td><td></td><td></td></tr<>	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     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.     Volume Flow Rate     Volume		0.5 to 1.5	17	6 to 53	1/6	. / 7		
Consult CAGI website for a list of participants in the third party verification program:       www.cagi.org         AcFM is actual cubic feet per minute at inlet conditions.       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         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.         r         Volume Flow Rate       Specific Energy       Zero Flow         m <sup>3</sup> /min       %       %         Below       Below 17.6       ±/-7       ±/-8	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 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. <u>Volume Flow Rate</u> <u>volume Flow Rate</u>							+/- 10%	

ROT 031.1

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.

+/- 4

+/- 5

Above 529.7

Above 15