47573564 Rev E ECN 1418415



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: Ingersoll Rand							
	Model Number RS37n-A145		Date:	12/23/2020				
2	X Air-cooled Water-cooled		Type:	Screw				
			# of Stages:	1				
3*	Full Load Operating Pressure ^b	100		psig ^b				
4	Drive Motor Nominal Rating	50		hp				
5	Drive Motor Nominal Efficiency	93.0		percent				
6	Fan Motor Nominal Rating (if applicable	1.1		hp				
7	Fan Motor Nominal Efficiency	87.5		percent				
	Input Power (kW)	Capacity (acfm) a,d	Specific Power (kW/100 acfm) ^d					
	42.9	231.0	18.55					
	38.0	198.0	19.18					
8*	32.3	167.4	15	9.31				
	26.9	136.4	19.74					
	21.6	104.6	20	0.62				
	16.9	74.0	2:	2.89				
9*	Total Package Input Power at Zero Flow ^{c, c}	Total Package Input Power at Zero Flow ^{c, d} 0 kV		kW				
10	Isentropic Efficiency	66.6	percent					
11		100 150 Capacity (ACFM)	20	00 250	60			
	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 canacity							

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

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NOTES: a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E;

CAGI b. The ope

- 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

	Volume flow rate at specified conditions		Specific Energy Consumption	No Load / Zero Flow Power
m³/min	ft ³ /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	1/- 10/0
Above 15	Above 529.7	+/-4	+/-5	

ROT 031.1

2/19 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.