



**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>Ingersoll Rand</b>		
2	Model Number	<b>RS37n-A145</b>	Date: <b>12/23/2020</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>115</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>50</b>	hp
5	Drive Motor Nominal Efficiency	<b>93.0</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>1.1</b>	hp
7	Fan Motor Nominal Efficiency	<b>87.5</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>42.5</b>	<b>217.0</b>	<b>19.60</b>
	<b>38.2</b>	<b>186.9</b>	<b>20.44</b>
	<b>32.9</b>	<b>159.0</b>	<b>20.66</b>
	<b>27.7</b>	<b>130.7</b>	<b>21.15</b>
	<b>22.6</b>	<b>101.8</b>	<b>22.16</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0</b>	kW
10	Isentropic Efficiency	<b>66.9</b>	percent
11	<p style="text-align: center;"> <b>Note: Graph is only a visual representation of the data in section 8</b>                      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)

- NOTES:
- 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

Volume flow rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / 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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