



**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>R110N-W145</b>	Date:	<b>4/28/2020</b>
	<input type="checkbox"/> Air-cooled	<input checked="" 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>150</b>	hp	
5	Drive Motor Nominal Efficiency	<b>95.4</b>	percent	
6	Fan Motor Nominal Rating (if applicable)	<b>1.1</b>	hp	
7	Fan Motor Nominal Efficiency	<b>86.6</b>	percent	
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>	
	<b>134.0</b>	<b>715.0</b>	<b>18.74</b>	
	<b>121.4</b>	<b>651.5</b>	<b>18.63</b>	
	<b>109.1</b>	<b>584.1</b>	<b>18.68</b>	
	<b>96.8</b>	<b>514.1</b>	<b>18.83</b>	
	<b>85.0</b>	<b>444.1</b>	<b>19.14</b>	
	<b>73.7</b>	<b>373.5</b>	<b>19.73</b>	
	<b>62.5</b>	<b>305.0</b>	<b>20.49</b>	
9*	Total Package Input Power at Zero Flow <sup>c,d</sup>	<b>0.0</b>	kW	
10	Isentropic Efficiency	<b>0.7</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 are the items verified by the third party program administrator

Consult CAGI website for a list of participants in the third party verification [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 C; 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 C, 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	+/- 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	

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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.