



**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>RS22n-A145</b>	Date:	<b>4/13/2020</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>135</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>30</b>	hp
5	Drive Motor Nominal Efficiency	<b>93.0</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>0.7</b>	hp
7	Fan Motor Nominal Efficiency	<b>79.5</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>26.5</b>	<b>115.5</b>	<b>22.94</b>
	<b>23.4</b>	<b>100.2</b>	<b>23.40</b>
	<b>20.1</b>	<b>82.9</b>	<b>24.30</b>
	<b>16.6</b>	<b>67.3</b>	<b>24.62</b>
	<b>13.2</b>	<b>51.5</b>	<b>25.73</b>
	<b>9.4</b>	<b>35.5</b>	<b>26.39</b>
9*	Total Package Input Power at Zero Flow <sup>c,d</sup>	<b>0</b>	kW
10	Isentropic Efficiency	<b>64.4</b>	percent
11			

\* 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 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 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.

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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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.