



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		
2	Model Number	RS30n-A145	Date: 12/30/2020
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type: Screw
			# of Stages: 1
3*	Full Load Operating Pressure ^b	100	psig ^b
4	Drive Motor Nominal Rating	40	hp
5	Drive Motor Nominal Efficiency	92.4	percent
6	Fan Motor Nominal Rating (if applicable)	1.1	hp
7	Fan Motor Nominal Efficiency	87.5	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	36.9	195.0	18.93
	32.9	169.3	19.42
	28.6	145.5	19.69
	24.9	121.0	20.59
	20.9	97.1	21.47
9*	Total Package Input Power at Zero Flow ^{c, d}	0	kW
10	Isentropic Efficiency	64.3	percent
11	<p style="text-align: center;">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 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

- 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 ³ /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	
Above 15	Above 529.7	+/-4	+/-5	

ROT 031.1