



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: RS110n-W145	Date:	4/21/2023
	☐ Air-cooled ☒ Water-cooled	Type:	Screw
		# of Stages:	1
3*	Full Load Operating Pressure ^b	100	psig ^b
4	Drive Motor Nominal Rating	148	hp
5	Drive Motor Nominal Efficiency	96.4%	percent
6	Fan Motor Nominal Rating (if applicable)	1.0	hp
7	Fan Motor Nominal Efficiency	82.5%	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	130.1	775	16.77
	110.3	665	16.58
	91.5	554	16.50
	73.6	442	16.65
	56.6	329	17.18
	39.9	215	18.51
9*	Total Package Input Power at Zero Flow ^{c, d}	0	kW
10	Isentropic Efficiency	79.2	percent
11	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		

* 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

NOTES:

- 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.
- The operating pressure at which the Capacity (item 8) and Electrical Consumption (item 8) were measured for this data sheet.
- 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.
- 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^3 / min	ft^3 / 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.

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