



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-A145		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)	5.4	hp
7	Fan Motor Nominal Efficiency	88.6%	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	132.3	775	17.07
	111.5	665	16.76
	91.9	554	16.57
	73.5	442	16.61
	56.2	329	17.05
	39.4	215	18.30
9*	Total Package Input Power at Zero Flow ^{c, d}	0	kW
10	Isentropic Efficiency	78.9	percent
11	35 30 25 20 15 10 0 100 200 300 400 500 600 700 800 900 Specific Power (kW/100ACFM) Capacity (ACFM) 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:

- CAGI

Compressed Air & Gas Institute

Member

ROT 030.1

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^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	