

COMPRESSOR DATA SHEET

In Accordance with Federal Uniform Test Method for Certain Lubricated Air Compressors Rotary Compressor: Variable Frequency Drive

		EL DATA - FOR COMPRESSED			
1	Manufacturer: Ingersoll Rand				
	Model Number R90N-A145		Date:	8/18/2020	
2	X Air-cooled Water-co	oled	Type:	Screw	
			# of Stages:	1	
3*	Full Load Operating Pressure b	100		psig ^b	
4	Drive Motor Nominal Rating	125		hp	
5	Drive Motor Nominal Efficiency	95.4		percent	
6	Fan Motor Nominal Rating (if applic	able) 5.4		hp	
7	Fan Motor Nominal Efficiency	88.6		percent	
	Input Power (kW)	Capacity (acfm) a,d		Specific Power (kW/100 acfm) ^d	
	114.4	665.0	17.20		
	104.3	597.7	17.45	17.45	
8*	93.8	538.2	17.43		
	83.4	478.0	17.45		
	73.5	417.7	17.60		
	63.9	356.7	17.91		
	55.4	299.0	18.53	18.53	
9*	Total Package Input Power at Zero F	ow ^{c, d} 0.0		kW	
10	Isentropic Efficiency	74.8		percent	
11	35 Specific Power (kw/100ACFM) 25 25 15 10 0 100	200 300 400	500	600 700	
		Capacity (ACFM) : Graph is only a visual representation of the da axis scale 10 to 35, +5kW/100acfm increments if X-Axis Scale, 0 to 25% over maximum capa	necessary above 35		

^{*} 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 verificatio www.cagi.org

- 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
$\underline{\text{m}}^3 / \underline{\text{min}}$	ft3 / 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	

Member

ROT 031.1

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 dat