



Ingersoll Rand

COMPRESSOR DATA SHEET

Federal Uniform Test Method for Certain Air Compressors Not Applicable

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: Ingersoll Rand		
2	Model Number	E315n-A155 (NA-IP55)	Date: June 2023
	☒ Air-cooled ☐ Water-cooled		Type: Screw
	☐ Oil Injected ☒ Oil-Free		# of Stages: 2
3*	Full Load Operating Pressure ^b	125	psig ^b
4	Drive Motor Nominal Rating	422	hp
5	Drive Motor Nominal Efficiency	95.9%	percent
6	Fan Motor Nominal Rating (if applicable)	20.1	hp
7	Fan Motor Nominal Efficiency	92.1%	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	347.3 Max	1674	20.74
	290.9	1460	19.93
	240.0	1236	19.43
	193.8	1003	19.33
	151.6	762	19.90
	112.6 Min	514	21.90
9*	Total Package Input Power at Zero Flow ^{c,d}	0.0	kW
10	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 items are verified by 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 E; ACFM is actual cubic feet per minute at inlet conditions.
- The operating pressure at which the Capacity and Electrical Consumption 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 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	+/- 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. CAGI has not independently verified the reported data.