



COMPRESSOR DATA SHEET

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: Ingersoll Rand		
2	Model Number: RS355ne-A145	Date: October 2019	Type: Screw # of Stages: 2
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		
	<input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free		
3	Rated Operating Pressure	100	psig ^b
4	Drive Motor Nominal Rating	476	hp
5	Drive Motor Nominal Efficiency	96.0%	percent
6	Fan Motor Nominal Rating (if applicable)	10.0	hp
7	Fan Motor Nominal Efficiency	90.4%	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	407.2 Max	2489.7	16.4
	343.5	2129.5	16.1
	278.9	1769.3	15.8
	217.7	1402.0	15.5
	160.4	1027.7	15.6
	103.8 Min	646.3	16.1
9*	Total Package Input Power at Zero Flow ^{c,d}		0 kW

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:

- 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 and Electrical Consumption 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

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 15	+/-7	+/-8	+/- 10%
0.5 to 1.5	15 to 50	+/-6	+/-7	
1.5 to 15	50 to 500	+/-5	+/-6	
Above 15	Above 500	+/-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