



COMPRESSOR DATA SHEET

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: Ingersoll Rand		
2	Model Number R7.5n-A125		Date: September 2015
	☒ Air-cooled ☐ Water-cooled	Type:	Screw
	☒ Oil Injected ☐ Oil-Free	# of Stages:	1
3	Rated Operating Pressure	125	psig ^b
4	Drive Motor Nominal Rating	10	hp
5	Drive Motor Nominal Efficiency	90.2	percent
6	Fan Motor Nominal Rating (if applicable)	0.4	hp
7	Fan Motor Nominal Efficiency	71.0	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	10.2 Max	36.3	28.2
	9.2	32.2	28.5
	8.2	28.1	29.0
	7.2	24.0	29.8
	6.2	19.9	31.1
	5.3	15.8	33.2
	4.8 Min	13.8	34.8
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:
- 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	

Member:

ROT 031