



COMPRESSOR DATA SHEET

In Accordance with Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Fixed Speed

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: Ingersoll Rand		
2	Model Number	R90I-W125	Date: 4/13/2020
	<input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled		Type: Screw
			# of Stages: 1
3*	Rated Capacity at Full Load Operating Pressure ^{a, e}	566.0	acfm ^{a, e}
4*	Full Load Operating Pressure ^b	115	psig ^b
5	Maximum Full Flow Operating Pressure ^c	125	psig ^c
6	Drive Motor Nominal Rating	125	hp
7	Drive Motor Nominal Efficiency	95.4	percent
8	Fan Motor Nominal Rating (if applicable)	1.0	hp
9	Fan Motor Nominal Efficiency	89	percent
10*	Total Package Input Power at Zero Flow ^e	26.8	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	105.2	kW ^d
12*	Package Specific Power at Rated Capacity and Full Load Operating Pressure ^e	18.59	kW/100 cfm ^e
13	Isentropic Efficiency	77.3	Percent

* 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:
- 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 3) and Electrical Consumption (item 11) were measured for this data sheet.
 - c. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
 - d. Total package input power at other than reported operating points will vary with control strategy.
 - e. 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
$\frac{m^3}{min}$	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	



Member

ROT 030.1