



**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: <b>Ingersoll Rand</b>		
2	Model Number	<b>E90n-W100 (NA-IP55)</b>	Date: <b>May 2023</b>
	<input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled		Type: <b>Screw</b>
	<input type="checkbox"/> Oil Injected <input checked="" type="checkbox"/> Oil-Free		# of Stages: <b>2</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>100</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>121</b>	hp
5	Drive Motor Nominal Efficiency	<b>96.8%</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>1.2</b>	hp
7	Fan Motor Nominal Efficiency	<b>82.5%</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>103.9</b> Max	<b>619</b>	<b>16.78</b>
	<b>91.0</b>	<b>543</b>	<b>16.75</b>
	<b>79.7</b>	<b>472</b>	<b>16.88</b>
	<b>68.9</b>	<b>400</b>	<b>17.20</b>
	<b>58.5</b>	<b>328</b>	<b>17.85</b>
	<b>48.2</b> Min	<b>252</b>	<b>19.13</b>
9*	Total Package Input Power at Zero Flow <sup>c,d</sup>	<b>0.0</b>	kW
10	<p>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</p>		

\* 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](http://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 <sup>3</sup> /min	ft <sup>3</sup> /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 031.2