



**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: <b>Ingersoll Rand</b>		
2	Model Number: <b>RS18i-A145</b>	Date:	<b>4/13/2020</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	<b>Screw</b>
		# of Stages:	<b>1</b>
3*	Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>	<b>98.9</b>	acfm <sup>a, e</sup>
4*	Full Load Operating Pressure <sup>b</sup>	<b>135</b>	psig <sup>b</sup>
5	Maximum Full Flow Operating Pressure <sup>c</sup>	<b>145</b>	psig <sup>c</sup>
6	Drive Motor Nominal Rating	<b>25</b>	hp
7	Drive Motor Nominal Efficiency	<b>93.6</b>	percent
8	Fan Motor Nominal Rating (if applicable)	<b>0.7</b>	hp
9	Fan Motor Nominal Efficiency	<b>79.5</b>	percent
10*	Total Package Input Power at Zero Flow <sup>e</sup>	<b>6.8</b>	kW <sup>e</sup>
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>	<b>22.6</b>	kW <sup>d</sup>
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>	<b>22.89</b>	kW/100 cfm <sup>e</sup>
13	Isentropic Efficiency	<b>68.3</b>	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](http://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.



Member

ROT 030.1

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	

12/19 Rev 3 This form was developed by the Compressed Air and Gas Institute for the use of its members participating in the PVP. CAGI has not independently verified the reported data.