

## COMPRESSOR DATA SHEET

### Rotary Screw Variable Frequency Drive Compressor

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <b>Ingersoll Rand</b>		Date: <b>Dec 15th 2009</b>
2	Model Number: <b>IRN40H-CC</b> <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages: <b>1</b>	VALUE                      UNIT
3	Full Load Operating Pressure <sup>b</sup>	<b>100</b>	psig <sup>b</sup>
4	Maximum Full Flow Operating Pressure <sup>c</sup>	<b>161</b>	psig <sup>c</sup>
5	Drive Motor Nameplate Rating	<b>40</b>	hp
6	Drive Motor Nameplate Nominal Efficiency	<b>94.0</b>	percent
7	Fan Motor Nameplate Rating (if applicable)	<b>1.75</b>	hp
8	Fan Motor Nameplate Nominal Efficiency	<b>85.0</b>	percent
9	Input Power (kW)	Capacity (acfm) <sup>a,e</sup>	Specific Power (kW/100 acfm) <sup>e</sup>
	37.6	<b>161.0</b>	23.34
	30.1	<b>130.8</b>	23.01
	22.9	<b>99.6</b>	22.97
	15.9	<b>68.3</b>	23.25
	9.1	<b>38.6</b>	23.59
	10	Total Package Input Power at Zero Flow <sup>d</sup>	<b>0.0</b>
11	<p style="font-size: small; margin-top: 5px;">Note: Graph is only a visual representation of the data in section 9</p>		

**NOTES:**

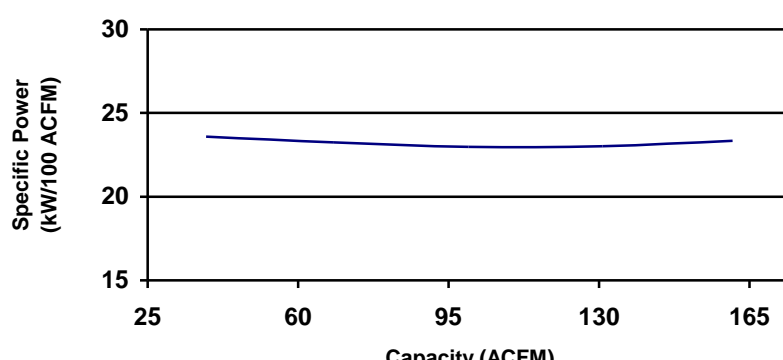
- a. Measured at the discharge terminal point of the compressor package in accordance with the Annex E to ISO 1217. acfm is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity and Electrical Consumption were measured for this data sheet.
- c. Maximum pressure 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. No Load Power. Total package input power at other than reported operating points will vary with control strategy.
- e. Tolerance is specified in the Annex E to ISO 1217) as follows:

Volume Flow Rate at specified conditions		Volume Flow Rate <sup>f</sup>	Specific Energy Consumption <sup>g</sup>
<u>m<sup>3</sup> / min</u>	<u>ft<sup>3</sup> / min</u>	%	%
Below 0.5	Below 15	+/- 7	+/- 8
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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3	Full Load Operating Pressure <sup>b</sup>	<b>115</b>	psig <sup>b</sup>
4	Maximum Full Flow Operating Pressure <sup>c</sup>	<b>161</b>	psig <sup>c</sup>
5	Drive Motor Nameplate Rating	<b>40</b>	hp
6	Drive Motor Nameplate Nominal Efficiency	<b>94.0</b>	percent
7	Fan Motor Nameplate Rating (if applicable)	<b>1.75</b>	hp
8	Fan Motor Nameplate Nominal Efficiency	<b>85.0</b>	percent
9	Input Power (kW)	Capacity (acfm) <sup>a,e</sup>	Specific Power (kW/100 acfm) <sup>e</sup>
	37.6	<b>161.0</b>	23.34
	30.1	<b>130.8</b>	23.01
	22.9	<b>99.6</b>	22.97
	15.9	<b>68.3</b>	23.25
	9.1	<b>38.6</b>	23.59
	10	Total Package Input Power at Zero Flow <sup>d</sup>	<b>0.0</b>
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**NOTES:**

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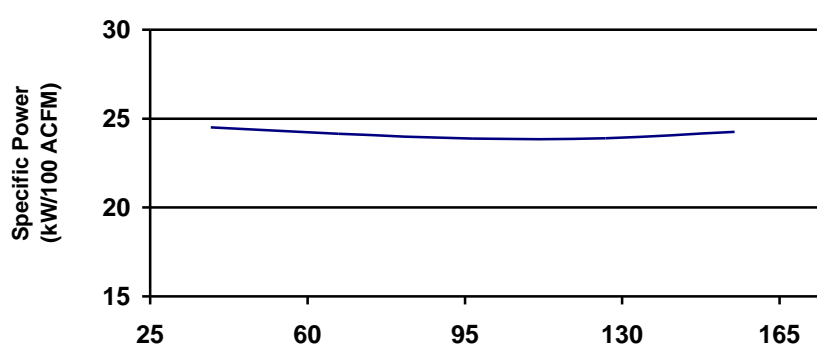
Volume Flow Rate at specified conditions		Volume Flow Rate <sup>f</sup>	Specific Energy Consumption <sup>g</sup>
<u>m<sup>3</sup> / min</u>	<u>ft<sup>3</sup> / min</u>	%	%
Below 0.5	Below 15	+/- 7	+/- 8
0.5 to 1.5	15 to 50	+/- 6	+/- 7
1.5 to 15	50 to 500	+/- 5	+/- 6
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Member



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3	Full Load Operating Pressure <sup>b</sup>	<b>125</b>	psig <sup>b</sup>
4	Maximum Full Flow Operating Pressure <sup>c</sup>	<b>155</b>	psig <sup>c</sup>
5	Drive Motor Nameplate Rating	<b>40</b>	hp
6	Drive Motor Nameplate Nominal Efficiency	<b>94.0</b>	percent
7	Fan Motor Nameplate Rating (if applicable)	<b>1.75</b>	hp
8	Fan Motor Nameplate Nominal Efficiency	<b>85.0</b>	percent
9	Input Power (kW)	Capacity (acfm) <sup>a,e</sup>	Specific Power (kW/100 acfm) <sup>e</sup>
	37.6	<b>155.0</b>	24.25
	30.2	<b>126.3</b>	23.90
	23.0	<b>96.6</b>	23.87
	16.1	<b>66.8</b>	24.15
	9.4	<b>38.5</b>	24.51
10	Total Package Input Power at Zero Flow <sup>d</sup>	<b>0.0</b>	kW <sup>d</sup>
11	 <p style="font-size: small;">Note: Graph is only a visual representation of the data in section 9</p>		

**NOTES:**

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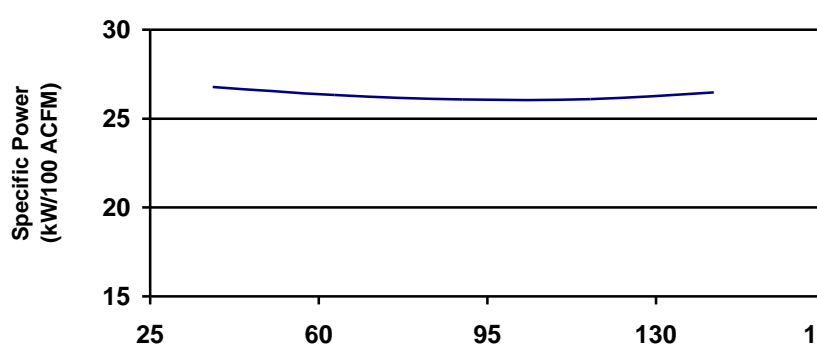
Volume Flow Rate at specified conditions		Volume Flow Rate <sup>f</sup>	Specific Energy Consumption <sup>g</sup>
$m^3 / min$	$ft^3 / min$	%	%
Below 0.5	Below 15	+/- 7	+/- 8
0.5 to 1.5	15 to 50	+/- 6	+/- 7
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3	Full Load Operating Pressure <sup>b</sup>	<b>150</b>	psig <sup>b</sup>
4	Maximum Full Flow Operating Pressure <sup>c</sup>	<b>142</b>	psig <sup>c</sup>
5	Drive Motor Nameplate Rating	<b>40</b>	hp
6	Drive Motor Nameplate Nominal Efficiency	<b>94.0</b>	percent
7	Fan Motor Nameplate Rating (if applicable)	<b>1.75</b>	hp
8	Fan Motor Nameplate Nominal Efficiency	<b>85.0</b>	percent
9	Input Power (kW)	Capacity (acfm) <sup>a,e</sup>	Specific Power (kW/100 acfm) <sup>e</sup>
	37.6	<b>142.0</b>	26.47
	30.4	<b>116.4</b>	26.10
	23.4	<b>89.9</b>	26.07
	16.7	<b>63.3</b>	26.32
	10.2	<b>38.0</b>	26.77
	10	Total Package Input Power at Zero Flow <sup>d</sup>	<b>0.0</b>
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