# COMPRESSOR DATA SHEET
## Rotary Screw Compressor

| MODEL DATA - FOR COMPRESSED AIR | | | |
|---|---|---|---|
| 1 | Manufacturer: **Ingersoll Rand** | Date: **July 2010** | |
| 2 | Model Number: **R90IE-A-200**<br>[X] Air-cooled [ ] Water-cooled<br>[X] Oil-injected [ ] Oil-free | # of Stages: **2**<br>VALUE | UNIT |
| 3 | Rated Capacity at Full Load Operating Pressure [a, f] | **459** | acfm[a,f] |
| 4 | Full Load Operating Pressure [b] | **190** | psig[b] |
| 5 | Maximum Full Flow Operating Pressure [c] | **200** | psig[c] |
| 6 | Drive Motor Nameplate Rating | **125** | hp |
| 7 | Drive Motor Nameplate Nominal Efficiency | **95.4** | percent |
| 8 | Fan Motor Nameplate Rating (if applicable) | **10** | hp |
| 9 | Fan Motor Nameplate Nominal Efficiency | **89.5** | percent |
| 10 | Total Package Input Power at Zero Flow[e] | **31** | kW[e] |
| 11 | Total Package Input Power at Rated Capacity and Full Load Operating Pressure[d] | **110** | kW[d] |
| 12 | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure[g] | **23.97** | kW/100 cfm[g] |

NOTES:

a. Measured at the discharge terminal point of the compressor package in accordance with the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217). 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 the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217).

f, g. Tolerance is specified in the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217) as follows:

| Volume Flow Rate at specified conditions | | Volume Flow Rate[f] | Specific Energy Consumption[g] |
|---|---|---|---|
| $m^3$ / min | $ft^3$ / min | % | % |
| 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 |

Member

This form was developed by the Compressed Air and Gas Institute for the use of its members. CAGI has not independently verified the reported data.