Ingersoll Rand
Industrial Technologies

# COMPRESSOR DATA SHEET

## Rotary Compressor: Fixed Speed

| MODEL DATA - FOR COMPRESSED AIR | | | |
|---|---|---|---|
| 1 | Manufacturer: **Ingersoll Rand** | | |
| 2 | Model Number R55I-W110<br>[ ] Air-cooled [X] Water-cooled<br>[X] Oil Injected [ ] Oil-Free | Date:<br>Type:<br># of Stages: | **October 2011**<br>**Screw**<br>**1** |
| 3* | Rated Capacity at Full Load Operating Pressure [a, e] | **361** | acfm[a, e] |
| 4 | Full Load Operating Pressure [b] | **100** | psig[b] |
| 5 | Maximum Full Flow Operating Pressure [c] | **110** | psig[c] |
| 6 | Drive Motor Nameplate Rating | **75** | hp |
| 7 | Drive Motor Nameplate Nominal Efficiency | **95.4** | percent |
| 8 | Fan Motor Nameplate Rating (if applicable) | **0.5** | hp |
| 9 | Fan Motor Nameplate Nominal Efficiency | **100.0** | percent |
| 10* | Total Package Input Power at Zero Flow[e] | **17.7** | kW[e] |
| 11 | Total Package Input Power at Rated Capacity and Full Load Operating Pressure[d] | **63.4** | kW[d] |
| 12* | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure[e] | **17.6** | kW/100 cfm[e] |

* 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.

**Member:**

COMPRESSED AIR CAGI AND GAS INSTITUTE ®

| Volume Flow Rate at specified conditions | | Volume Flow Rate[f] | Specific Energy[g] Consumption | No Load / Zero Flow Power[e] |
|---|---|---|---|---|
| $m^3$ / min | ft3 / min | % | % | |
| Below 0.5 | Below 15 | +/- 7 | +/- 8 | |
| 0.5 to 1.5 | 15 to 50 | +/- 6 | +/- 7 | +/- 10% |
| 1.5 to 15 | 50 to 500 | +/- 5 | +/- 6 | |
| Above 15 | Above 500 | +/- 4 | +/- 5 | |

ROT 030

5/11 R7 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

23971146 rev A