

## COMPRESSOR DATA SHEET

### Rotary Screw Compressor

| MODEL DATA - FOR COMPRESSED AIR |  |                           |                         |
|---------------------------------|--|---------------------------|-------------------------|
| 1                               | Manufacturer: <b>Ingersoll Rand</b>  | Date: <b>Dec 15, 2009</b> |                         |
| 2                               | Model Number: <b>UP6 50PE-150 / HP50 (ODP)</b><br><input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled<br><input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free | # of Stages: <b>One</b>   |                         |
|                                 |  | VALUE                     | UNIT                    |
| 3                               | Rated Capacity at Full Load Operating Pressure <sup>a, f</sup>   | <b>201</b>                | acfm <sup>a, f</sup>    |
| 4                               | Full Load Operating Pressure <sup>b</sup>  | <b>150</b>                | psig <sup>b</sup>       |
| 5                               | Maximum Full Flow Operating Pressure <sup>c</sup>  | <b>150</b>                | psig <sup>c</sup>       |
| 6                               | Drive Motor Nameplate Rating   | <b>50</b>                 | hp                      |
| 7                               | Drive Motor Nameplate Nominal Efficiency   | <b>93.3</b>               | percent                 |
| 8                               | Fan Motor Nameplate Rating (if applicable)   | <b>1.5</b>                | hp                      |
| 9                               | Fan Motor Nameplate Nominal Efficiency   | <b>85.5</b>               | percent                 |
| 10                              | Total Package Input Power at Zero Flow <sup>e</sup>  | <b>15.20</b>              | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>  | <b>44.4</b>               | kW <sup>d</sup>         |
| 12                              | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>g</sup>   | <b>22.07</b>              | kW/100 cfm <sup>g</sup> |

**NOTES:**

- a. Measured at the discharge terminal point of the compressor package in accordance with the CAGI/PNEUROPN2CPTC2 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/PNEUROPN2CPTC2 Test Code (Annex C to ISO 1217).
- f, g. Tolerance is specified in the CAGI/PNEUROPN2CPTC2 Test Code (Annex C 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                                    |



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.