

**Rotary Compressor: Fixed Speed**

| MODEL DATA - FOR COMPRESSED AIR |  |                                       |                         |
|---------------------------------|--|---------------------------------------|-------------------------|
| 1                               | Manufacturer: <b>Chicago Pneumatic</b>   |                                       |                         |
| 2                               | Model Number: <b>CPG 450</b>   |                                       | Date: <b>May-15</b>     |
|                                 | <input checked="" type="checkbox"/> Air-cooled   | <input type="checkbox"/> Water-cooled | Type: <b>Screw</b>      |
|                                 | <input checked="" type="checkbox"/> Oil-injected   | <input type="checkbox"/> Oil-free     | # of Stages: <b>1</b>   |
| 3*                              | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                               | <b>2187</b>                           | acfm <sup>a, e</sup>    |
| 4                               | Full Load Operating Pressure <sup>b</sup>  | <b>100</b>                            | psig <sup>b</sup>       |
| 5                               | Maximum Full Flow Operating Pressure <sup>c</sup>  | <b>107</b>                            | psig <sup>c</sup>       |
| 6                               | Drive Motor Nominal Rating   | <b>450</b>                            | hp                      |
| 7                               | Drive Motor Nominal Efficiency   | <b>96.2</b>                           | percent                 |
| 8                               | Fan Motor Nominal Rating (if applicable)   | <b>18.8</b>                           | hp                      |
| 9                               | Fan Motor Nominal Efficiency   | <b>86.7</b>                           | percent                 |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>  | <b>89</b>                             | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>    | <b>377</b>                            | kW <sup>d</sup>         |
| 12*                             | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> | <b>17.2</b>                           | kW/100 cfm <sup>e</sup> |

\*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator. Consult CAGI website for a list of participants in the third party verification program: [www.cagi.org](http://www.cagi.org)

**NOTES:**

- 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.
- The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
- 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.
- Total package input power at other than reported operating points will vary with control strategy.
- Tolerance is specified in ISO 1217, Annex C, as shown in table below:



| Volume Flow Rate at specified conditions |                             | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|--|-----------------------------|------------------|-----------------------------|---------------------------|
| <u>m<sup>3</sup> / min</u>               | <u>ft<sup>3</sup> / min</u> | %                | %                           |                           |
| Below 0.5                                | Below 15                    | +/- 7            | +/- 8                       | +/- 10%                   |
| 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                       |                           |

ROT 030