



## COMPRESSOR DATA SHEET

### Rotary Compressor: Fixed Speed

| MODEL DATA - FOR COMPRESSED AIR |  |              |                         |
|---------------------------------|--|--------------|-------------------------|
| 1                               | Manufacturer: <b>Chicago Pneumatic</b>   |              |                         |
| 2                               | Model Number: <b>QRS 15</b>  | Date:        | <b>Dec-17</b>           |
|                                 | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled<br><input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free | Type:        | <b>Screw</b>            |
|                                 |  | # of Stages: | <b>3</b>                |
| 3*                              | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>   | <b>50</b>    | acfm <sup>a, e</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>157</b>   | psig <sup>c</sup>       |
| 6                               | Drive Motor Nominal Rating   | <b>15</b>    | hp                      |
| 7                               | Drive Motor Nominal Efficiency   | <b>91.0</b>  | percent                 |
| 8                               | Fan Motor Nominal Rating (if applicable)   | <b>N/A</b>   | hp                      |
| 9                               | Fan Motor Nominal Efficiency   | <b>N/A</b>   | percent                 |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>  | <b>4</b>     | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>  | <b>12.1</b>  | kW <sup>d</sup>         |
| 12*                             | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>   | <b>24.2</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:**

- 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:



| Volume Flow Rate at specified conditions |              | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|--|--------------|------------------|-----------------------------|---------------------------|
| $m^3 / min$                              | $ft^3 / min$ | %                | %                           |                           |
| 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                       |                           |

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