



**COMPRESSOR DATA SHEET**

**In Accordance with Federal Uniform Test Method for Certain Lubricated Air Compressors**

**Rotary Compressor: Fixed Speed**

**MODEL DATA - FOR COMPRESSED AIR**

|     |   |                                     |                         |                 |
|-----|---|-------------------------------------|-------------------------|-----------------|
| 1   | Manufacturer:   | <b>Chicago Pneumatic</b>            |                         |                 |
| 2   | Model Number:   | <b>QRS 5.5 - 145 psig - 1-Phase</b> | Date:                   | <b>8/1/2023</b> |
|     | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled      |                                     | Type:                   | <b>Screw</b>    |
|     |   |                                     | # of Stages:            | <b>1</b>        |
| 3*  | Rated Capacity at Full Load Operating Pressure <sup>a, c</sup>                            | <b>16.7</b>                         | acfm <sup>a, e</sup>    |                 |
| 4*  | Full Load Operating Pressure <sup>b</sup>   | <b>138</b>                          | psig <sup>b</sup>       |                 |
| 5   | Maximum Full Flow Operating Pressure <sup>c</sup>   | <b>145</b>                          | psig <sup>c</sup>       |                 |
| 6   | Drive Motor Nominal Rating  | <b>5.5</b>                          | hp                      |                 |
| 7   | Drive Motor Nominal Efficiency  | <b>88.5</b>                         | percent                 |                 |
| 8   | Fan Motor Nominal Rating (if applicable)  | <b>NA</b>                           | hp                      |                 |
| 9   | Fan Motor Nominal Efficiency  | <b>NA</b>                           | percent                 |                 |
| 10* | Total Package Input Power at Zero Flow <sup>c</sup>                                       | <b>0.96</b>                         | kW <sup>c</sup>         |                 |
| 11  | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> | <b>5.80</b>                         | kW <sup>d</sup>         |                 |
| 12* | Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>    | <b>34.73</b>                        | kW/100 cfm <sup>e</sup> |                 |
| 13  | Isentropic Efficiency   | <b>45.59</b>                        | Percent                 |                 |

\*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:

NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

| Volume Flow Rate at specified conditions |                       | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|--|-----------------------|------------------|-----------------------------|---------------------------|
| m <sup>3</sup> / min                     | ft <sup>3</sup> / min | %                | %                           | %                         |
| Below 0.5                                | Below 17.6            | +/- 7            | +/- 8                       | +/- 10%                   |
| 0.5 to 1.5                               | 17.6 to 53            | +/- 6            | +/- 7                       |                           |
| 1.5 to 15                                | 53 to 529.7           | +/- 5            | +/- 6                       |                           |
| Above 15                                 | Above 529.7           | +/- 4            | +/- 5                       |                           |



Member

ROT 030.1