



**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>FS Curtis</b> |                            |
| 2                               | Model Number:                                                                             | <b>NxD90-150</b> | Date: <b>January, 2016</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, e</sup>                            | <b>448</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>150</b>       | psig <sup>c</sup>          |
| 6                               | Drive Motor Nominal Rating                                                                | <b>125</b>       | hp                         |
| 7                               | Drive Motor Nominal Efficiency                                                            | <b>95</b>        | percent                    |
| 8                               | Fan Motor Nominal Rating (if applicable)                                                  | <b>3</b>         | hp                         |
| 9                               | Fan Motor Nominal Efficiency                                                              | <b>89.5</b>      | percent                    |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>                                       | <b>33.4</b>      | kW <sup>e</sup>            |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> | <b>108.5</b>     | kW <sup>d</sup>            |
| 12*                             | Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>    | <b>24.22</b>     | kW/100 cfm <sup>e</sup>    |
| 13                              | Isentropic Efficiency                                                                     | <b>68.30</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 | Zero Flow Power |
|------------------------------------------|-----------------------|------------------|-----------------------------|-----------------|
| m <sup>3</sup> / min                     | ft <sup>3</sup> / min | %                | %                           | %               |
| Below 0.5                                | Below 17.6            | +/- 7            | +/- 8                       |                 |
| 0.5 to 1.5                               | 17.6 to 53            | +/- 6            | +/- 7                       |                 |
| 1.5 to 15                                | 53 to 529.7           | +/- 5            | +/- 6                       | +/- 10%         |
| Above 15                                 | Above 529.7           | +/- 4            | +/- 5                       |                 |



ROT 030.1