



### 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>NxD55-100</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>356</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>100</b>       | psig <sup>c</sup>          |
| 6                               | Drive Motor Nominal Rating  | <b>75</b>        | hp                         |
| 7                               | Drive Motor Nominal Efficiency  | <b>93.6</b>      | percent                    |
| 8                               | Fan Motor Nominal Rating (if applicable)  | <b>2</b>         | hp                         |
| 9                               | Fan Motor Nominal Efficiency  | <b>86.5</b>      | percent                    |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>                                       | <b>21.9</b>      | kW <sup>e</sup>            |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> | <b>70.7</b>      | kW <sup>d</sup>            |
| 12*                             | Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>    | <b>19.86</b>     | kW/100 cfm <sup>e</sup>    |
| 13                              | Isentropic Efficiency   | <b>66.92</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<br>at specified conditions |                             | Volume Flow Rate | Specific Energy<br>Consumption | Zero Flow<br>Power |
|---|-----------------------------|------------------|--------------------------------|--------------------|
| <u>m<sup>3</sup> / min</u>                  | <u>ft<sup>3</sup> / min</u> | %                | %                              | %                  |
| 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                          |                    |



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