

## COMPRESSOR DATA SHEET

### Rotary Vane Compressor: Variable Frequency Drive

#### MODEL DATA - FOR COMPRESSED AIR

|    |   |                                       |                              |
|----|---|---------------------------------------|------------------------------|
| 1  | Manufacturer: <b>Mattei Compressors Inc.</b>  |                                       |                              |
| 2  | Model Number: <b>OPTIMA 90</b>  |                                       | Date: <b>Jan-17</b>          |
|    | <input checked="" type="checkbox"/> Air-cooled  | <input type="checkbox"/> Water-cooled | Type: <b>Vane</b>            |
|    | <input checked="" type="checkbox"/> Oil-injected  | <input type="checkbox"/> Oil-free     | # of Stages: <b>1</b>        |
| 3  | Rated Operating Pressure  | <b>131</b>                            | psig <sup>b</sup>            |
| 4  | Drive Motor Nominal Rating  | <b>120</b>                            | hp                           |
| 5  | Drive Motor Nominal Efficiency  | <b>95.4</b>                           | percent                      |
| 6  | Fan Motor Nominal Rating (if applicable)  | <b>3.2</b>                            | hp                           |
| 7  | Fan Motor Nominal Efficiency  | <b>n/a</b>                            | percent                      |
| 8  | Input Power (kW)  | Capacity (acfm) <sup>a</sup>          | Specific Power (kW/100 acfm) |
|    | 107.0   | Max                                   | <b>515.6</b>                 |
|    | 99.3  |                                       | <b>486.3</b>                 |
|    | 84.3  |                                       | <b>424.8</b>                 |
|    | 69.8  |                                       | <b>360.9</b>                 |
|    | 62.8  |                                       | <b>328.1</b>                 |
|    | 56.0  | Min                                   | <b>294.5</b>                 |
| 9  | Total Package Input Power at Zero Flow <sup>c</sup>   |                                       | <b>9.9</b>                   |
| 10 | <p style="text-align: center;">Note: Graph is only a visual representation of the data in Section 8</p> |                                       |                              |

NOTES:

- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; acfm is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity and Electrical Consumption were measured for this data sheet.
- c. No Load Power. In accordance with ISO 1217, Annex E.

