

**COMPRESSOR DATA SHEET**  
**Rotary Compressor: Variable Frequency Drive**

**MODEL DATA - FOR COMPRESSED AIR**

|    |  |                                |   |
|----|--|--------------------------------|---|
| 1  | Manufacturer: <b>Mattei Compressors Inc.</b>   |                                |   |
| 2  | Model Number: <b>OPTIMA 75</b>   | Date:                          | <b>Apr-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>116</b>                     | psig <sup>b</sup>                         |
| 4  | Drive Motor Nominal Rating   | <b>100</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,d</sup> | Specific Power (kW/100 acfm) <sup>d</sup> |
|    | 91.32 Max  | <b>425.2</b>                   | <b>21.48</b>                              |
|    | 84.54  | <b>401.3</b>                   | <b>21.07</b>                              |
|    | 71.57  | <b>353.3</b>                   | <b>20.26</b>                              |
|    | 59.32  | <b>305.1</b>                   | <b>19.44</b>                              |
|    | 47.77  | <b>256.7</b>                   | <b>18.61</b>                              |
|    | 42.25 Min  | <b>232.4</b>                   | <b>18.18</b>                              |
| 9* | Total Package Input Power at Zero Flow <sup>c,d</sup>  | <b>13.0</b>                    | kW  |
| 10 | <p align="center"><b>Note: Graph is only a visual representation of the data in Section 8</b><br/>         Note: Y-Axis Scale, 10 to 35, +5kW/100acfm increments if necessary above 35<br/>         X-Axis Scale, 0 to 25% over maximum capacity</p> |                                |   |

\*For models that are tested in the CAGI Performance Verification Program, these items are verified by program administrator

Consult CAGI website for a list of participants in the third party verification program: [www.cagi.org](http://www.cagi.org)

NOTES:

- 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.
- The operating pressure at which the Capacity and Electrical Consumption were measured for this data sheet.
- No Load Power. In accordance with ISO 1217, Annex E, if measurement of no load power equals less than 1%, manufacturer may state "not significant" or "0" on the test report.
- Tolerance is specified in ISO 1217, Annex E, 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 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                       |                           |



ROT 031