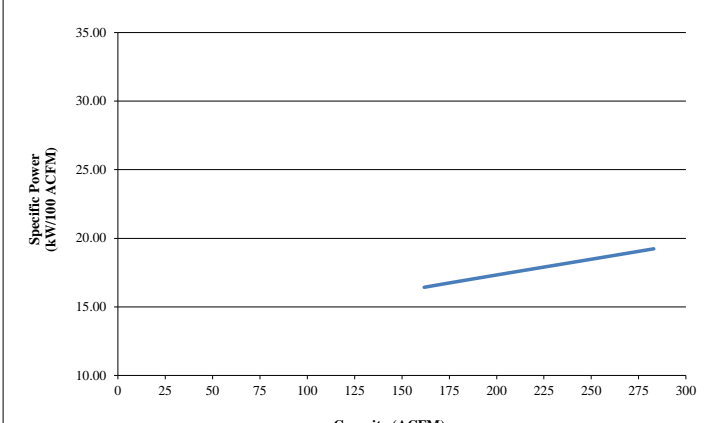


## COMPRESSOR DATA SHEET

### Rotary Compressor: Variable Frequency Drive

#### MODEL DATA - FOR COMPRESSED AIR

|      |  |                                       |   |
|------|--|---------------------------------------|---|
| 1    | Manufacturer: <b>Mattei Compressors Inc.</b>   |                                       |   |
| 2    | Model Number: <b>OPTIMA 45</b>   |                                       | Date: <b>Oct-09</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>100</b>                            | psig <sup>b</sup>                         |
| 4    | Drive Motor Nominal Rating   | <b>60</b>                             | hp  |
| 5    | Drive Motor Nominal Efficiency   | <b>94.0</b>                           | percent                                   |
| 6    | Fan Motor Nominal Rating (if applicable)   | <b>n/a</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> |
|      | 54.4   | Max                                   | <b>283.0</b>                              |
|      | 50.6   |                                       | <b>267.9</b>                              |
|      | 43.3   |                                       | <b>237.8</b>                              |
|      | 36.3   |                                       | <b>207.4</b>                              |
|      | 29.7   |                                       | <b>177.0</b>                              |
| 26.6 | Min  | <b>161.7</b>                          | <b>16.43</b>                              |
| 9*   | Total Package Input Power at Zero Flow <sup>c, d</sup>   |                                       | <b>5.5</b>                                |
| 10   |  <p style="text-align: center; font-size: small;"> <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:**

- 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, if measurement of no load power equals less than 1%, manufacturer may state "not significant" or "0" on the test report.
- d. 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 |
|--|------------|------------------|-----------------------------|---------------------------|
| $m^3/min$                                | $ft^3/min$ | %                | %                           |                           |
| 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                       |                           |

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