

COMPRESSOR DATA SHEET

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR

| | | | |
|----|--|---------------------------------------|---|
| 1 | Manufacturer: Mattei Compressors Inc. | | |
| 2 | Model Number: OPTIMA 22 | | Date: Oct-09 |
| | <input checked="" type="checkbox"/> Air-cooled | <input type="checkbox"/> Water-cooled | Type: Vane |
| | <input checked="" type="checkbox"/> Oil-injected | <input type="checkbox"/> Oil-free | # of Stages: 1 |
| 3 | Rated Operating Pressure | 100 | psig ^b |
| 4 | Drive Motor Nominal Rating | 30 | hp |
| 5 | Drive Motor Nominal Efficiency | 88.0 | percent |
| 6 | Fan Motor Nominal Rating (if applicable) | n/a | hp |
| 7 | Fan Motor Nominal Efficiency | n/a | percent |
| 8* | Input Power (kW) | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 26.4 | Max | 130.0 |
| | 24.6 | | 123.4 |
| | 21.2 | | 110.3 |
| | 18.0 | | 97.1 |
| | 14.9 | | 83.9 |
| 9* | Total Package Input Power at Zero Flow ^{c, d} | 2.8 | kW |
| 10 | <p style="text-align: center; font-size: small;"> Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35 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

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 | |



ROT 031