

**MATTEI ROTARY VANE AIR COMPRESSOR DATA SHEET - FIXED-SPEED**

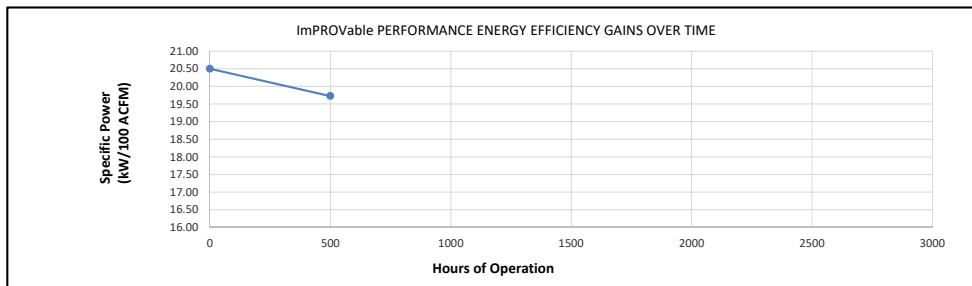
|                       |  |                                       |   |
|-----------------------|--|---------------------------------------|---|
| Model Number:         | <b>MAXIMA 55 HX</b>                              | Date:                                 | <b>1-Apr-2015</b>                                 |
| Cooling Media:        | Air-cooled <input checked="" type="checkbox"/>   | Water-cooled <input type="checkbox"/> | Oil Injection <input checked="" type="checkbox"/> |
| Inlet Control Scheme: | Load/No Load <input checked="" type="checkbox"/> | Modulation <input type="checkbox"/>   | Inverter <input type="checkbox"/>                 |
| Starting System:      | Full Voltage <input type="checkbox"/>            | Star-Delta <input type="checkbox"/>   | Soft-Start <input checked="" type="checkbox"/>    |

**PERFORMANCE SPECIFICATIONS: SPEED, POWER, PRESSURE**

|   |             |                   |
|---|-------------|-------------------|
| Compression Module Rotational Speed               | <b>1200</b> | rpm               |
| Nominal Drive Motor Rotational Speed              | <b>1200</b> | rpm               |
| Drive Motor Nominal Rating                        | <b>75</b>   | hp                |
| Drive Motor Nominal Efficiency                    | <b>95.4</b> | percent           |
| Maximum Full Flow Operating Pressure <sup>c</sup> | <b>145</b>  | psig <sup>c</sup> |
| Full Load Operating Pressure <sup>b</sup>         | <b>131</b>  | psig <sup>b</sup> |
| Fan Motor Nominal Rating (if applicable)          | <b>3.4</b>  | hp                |
| Fan Motor Nominal Efficiency                      | <b>86.0</b> | percent           |

**ImPROVable PERFORMANCE EFFICIENCY GAINS OVER TIME<sup>g</sup>**

| Efficiency Improvement timeline   | <b>0</b>     | <b>500</b>   |  | hours                        |
|---|--------------|--------------|--|------------------------------|
| Rated Capacity at Full Load Operating Pressure <sup>a</sup>                               | <b>368.7</b> | <b>374.6</b> |  | acfm <sup>a</sup>            |
| Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> | <b>75.58</b> | <b>73.89</b> |  | kW <sup>d</sup>              |
| Specific Package Input Power at Rated Capacity and Full Load Operating Pressure           | <b>20.50</b> | <b>19.73</b> |  | kW/100 cfm                   |
| Isentropic Efficiency at Rated Capacity and Full Load Operating Pressure <sup>f</sup>     | <b>75.13</b> | <b>78.08</b> |  | Percent of ideal compression |
| Total Package Input Power at Zero Flow  | <b>19.00</b> | <b>18.57</b> |  | Kw                           |



**NOTES:**

- 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.
- The operating pressure at which the Rated Capacity and Total Package Input Power Energy Consumption at Rated Capacity and Full Load Operating Pressure were measured.
- 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.
- Total package input power at other than reported operating points will vary with inlet control scheme.
- Isentropic Efficiency: real performance at flow and pressure per ISO 1217 compared to an ideal compression process.
- ImPROVable Performance: Proven efficiency and output performance gains as the blades season through normal operation.

