

MATTEI ROTARY VANE AIR COMPRESSOR DATA SHEET - FIXED-SPEED

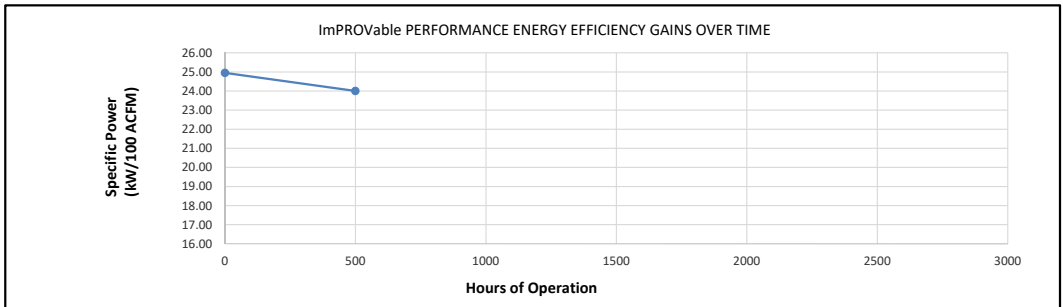
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|-----------------------|--|--|---|
| Model Number: | AC 30 HX | Date: | 6-Nov-2015 |
| Cooling Media: | Air-cooled <input checked="" type="checkbox"/> | Water-cooled <input type="checkbox"/> | Oil Injection <input checked="" type="checkbox"/> |
| 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 checked="" type="checkbox"/> | Soft-Start <input type="checkbox"/> |

PERFORMANCE SPECIFICATIONS: SPEED, POWER, PRESSURE

| | | |
|---|-------------|-------------------|
| Compression Module Rotational Speed | 1800 | rpm |
| Nominal Drive Motor Rotational Speed | 1800 | rpm |
| Drive Motor Nominal Rating | 40 | hp |
| Drive Motor Nominal Efficiency | 94.1 | percent |
| Maximum Full Flow Operating Pressure ^c | 145 | psig ^c |
| Full Load Operating Pressure ^b | 131 | psig ^b |
| Fan Motor Nominal Rating (if applicable) | n/a | hp |
| Fan Motor Nominal Efficiency | n/a | percent |

ImPROVable PERFORMANCE EFFICIENCY GAINS OVER TIME^g

| | | | | |
|---|--------------|--------------|--|------------------------------|
| Efficiency Improvement timeline | 0 | 500 | | hours |
| Rated Capacity at Full Load Operating Pressure ^a | 186.6 | 189.6 | | acfm ^a |
| Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d | 46.56 | 45.51 | | kW ^d |
| Specific Package Input Power at Rated Capacity and Full Load Operating Pressure | 24.95 | 24.00 | | kW/100 cfm |
| Isentropic Efficiency at Rated Capacity and Full Load Operating Pressure ^f | 61.74 | 64.16 | | Percent of ideal compression |
| Total Package Input Power at Zero Flow | 10.00 | 9.78 | | Kw |



NOTES:

- a. 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.
- b. 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.
- c. 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.
- d. Total package input power at other than reported operating points will vary with inlet control scheme.
- f. Isentropic Efficiency: real performance at flow and pressure per ISO 1217 compared to an ideal compression process.
- g. ImPROVable Performance: Proven efficiency and output performance gains as the blades season through normal operation.

