

MATTEI ROTARY VANE AIR COMPRESSOR DATA SHEET - FIXED-SPEED

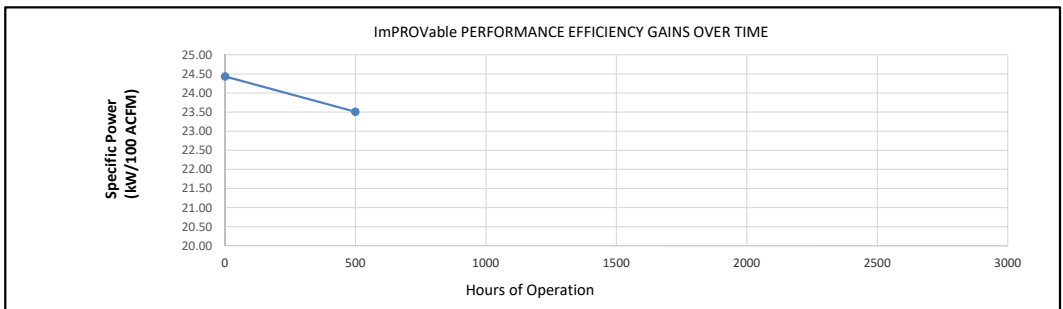
Model Number:	BLADE 4 HX	Date:	8-Jun-2018
Cooling Media:	Air-cooled <input checked="" type="checkbox"/>	Water-cooled <input type="checkbox"/>	Oil Injection <input checked="" type="checkbox"/>
Inlet Control Scheme:	Load/No Load <input checked="" type="checkbox"/>	Modulation <input type="checkbox"/>	Inverter <input type="checkbox"/>
Starting System:	Full Voltage <input checked="" type="checkbox"/>	Star-Delta <input type="checkbox"/>	Soft-Start <input type="checkbox"/>

PERFORMANCE SPECIFICATIONS: SPEED, POWER, PRESSURE

Compression Module Rotational Speed	1156	rpm
Nominal Drive Motor Rotational Speed	1800	rpm
Drive Motor Nominal Rating	5	hp
Drive Motor Nominal Efficiency	89.5	percent
Maximum Full Flow Operating Pressure ^c	150	psig ^c
Full Load Operating Pressure ^b	125	psig ^b
Fan Motor Nominal Rating (if applicable)	0.17	hp
Fan Motor Nominal Efficiency	65.0	percent

ImPROVable PERFORMANCE EFFICIENCY GAINS OVER TIME^g

Efficiency Improvement timeline	0	500		hours
Rated Capacity at Full Load Operating Pressure ^a	17.6	17.9		acfm ^a
Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	4.30	4.20		kW ^d
Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	24.43	23.51		kW/100 cfm
Isentropic Efficiency at Rated Capacity and Full Load Operating Pressure ^f	61.48	63.89		Percent of ideal compression
Total Package Input Power at Zero Flow	1.30	1.27		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.

