

MATTEI ROTARY VANE AIR COMPRESSOR DATA SHEET - FIXED-SPEED

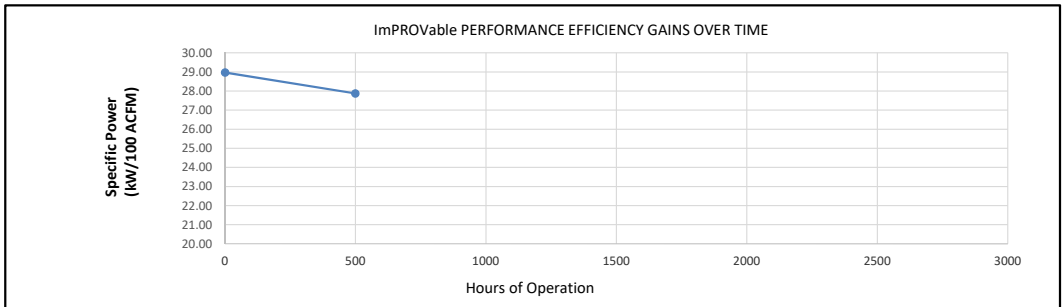
Model Number:	BLADE 4s HHX			Date:	30-May-2017
Cooling Media:	Air-cooled <input checked="" type="checkbox"/>	Water-cooled <input type="checkbox"/>	Oil Injection <input checked="" type="checkbox"/>		
Inlet Control Scheme:	Load/No Load <input checked="" type="checkbox"/>	Modulation <input type="checkbox"/>	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	1050	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	175	psig ^c
Full Load Operating Pressure ^b	168	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	14.5	14.7		acfm ^a
Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	4.20	4.11		kW ^d
Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	28.97	27.87		kW/100 cfm
Isentropic Efficiency at Rated Capacity and Full Load Operating Pressure ^f	60.54	62.92		Percent of ideal compression
Total Package Input Power at Zero Flow	1.30	1.27		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.

