## **COMPRESSOR DATA SHEET**

Rotary Compressor: Variable Frequency Drive

Rotary Compressor: Variable Frequency Drive  MODEL DATA - FOR COMPRESSED AIR								
1	Manufacturer: Mattei							
	Model Number: OPTIMA 37	Date:	Feb-16					
2	x Air-cooled Water-cooled	Type:	Vane					
	X Oil-injected Oil-free	# of Stages:						
3	Rated Operating Pressure	100.3	psig <sup>b</sup>					
4	Drive Motor Nominal Rating	50	hp					
5	Drive Motor Nominal Efficiency	93.9	percent					
6	Fan Motor Nominal Rating (if applicable)	n/a	hp					
7	Fan Motor Nominal Efficiency	n/a	percent					
	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	$(m)^{a,d}$ Specific Power (kW/100 acfm) <sup>d</sup>					
	44.0 Ma	x 215.0	20.47					
0.4	39.1	197.8	19.77					
8*	34.0	175.5	19.37					
	28.8	152.7	18.86					
	24.5	129.5	18.92					
	20.9 M	n <b>105.8</b>	19.75					
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	5.4	kW					
	35.00							
	30.00							
10	Specific Power (2000) 2000 2000 2000 2000 2000 2000 20							
	20.00 (K.W.)							
	15.00							
	0 25 50 75 10	125 150 175	200 225 250					
	Capacity (ACFM)							
	Note: Y-Axis Scale, 10 to 35, +5	representation of the data in Sect kW/100acfm increments if necessary 25% over maximum capacity						

\*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:

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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.

ssed Air & Gas Institute	Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power	
	$\underline{m}^3 / \underline{min}$	ft3 / min	%	%		
	Below 0.5	Below 15	+/- 7	+/- 8		
	0.5 to 1.5	15 to 50	+/- 6	+/- 7	+/- 10%	
	1.5 to 15	50 to 500	+/- 5	+/- 6		
	Above 15	Above 500	+/- 4	+/- 5		
This form was developed by the Compressed Air and Gas Institute for the use of its members. CAGI has not independently verified the reported data.						

ROT 031