## COMPRESSOR DATA SHEET

**Rotary Compressor: Variable Frequency Drive** 

MODEL DATA - FOR COMPRESSED AIR			
1 Manufacturer: Mattei Compressors Inc.			
2	Model Number: OPTIMA 75	Date:	Oct-09
	x Air-cooled Water-cooled	Type:	Vane
	X Oil-injected Oil-free	# of Stages:	1
3	Rated Operating Pressure	100	psig <sup>b</sup>
4	Drive Motor Nominal Rating	100	hp
5	Drive Motor Nominal Efficiency	94.6	percent
6	Fan Motor Nominal Rating (if applicable)	3.2	hp
7	Fan Motor Nominal Efficiency	n/a	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	92.5 N	fax 478.9	19.31
	86.5	453.4	19.07
	74.7	402.3	18.57
	63.5	351.0	18.09
	52.7	299.5	17.61
	42.5	1/1 247.8	17.14
9*	Total Package Input Power at Zero Flow <sup>c</sup> ,	8.5	kW
10	35.00		
	30.00		
	Specific Power (KW) 100 ACEM (KW) 20.00 Power 20.00 Po		
	20.00 (KM)1 20.00		
	15.00		
	0 25 50 75 100 125 150 175 20	25 50 75 100 125 150 175 200 225 250 275 300 325 350 375 400 425 450 475 500 525	
	Capacity (ACFM)		
	Note: Graph is only a visual representation of the data in Section 8  Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35  X-Axis Scale, 0 to 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:

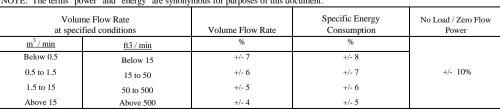
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NOTES:

Member

- 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.



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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 10/11 R7