## **COMPRESSOR DATA SHEET**

**Rotary Compressor: Variable Frequency Drive** 

Rotary Compressor: Variable Frequency Drive  MODEL DATA - FOR COMPRESSED AIR			
1 Manufacturer: Mattei Compressors Inc.			
2	Model Number: OPTIMA 18	Date:	Apr-15
	X Air-cooled Water-cooled	Type:	Vane
	X Oil-injected Oil-free	# of Stages:	1
3	Rated Operating Pressure	145	psig <sup>b</sup>
4	Drive Motor Nominal Rating	25	hp
5	Drive Motor Nominal Efficiency	91.2	percent
6	Fan Motor Nominal Rating (if applicable)	n/a	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>
	22.41 Ma	93.4	24.00
	20.83	87.8	23.73
	19.23	82.2	23.39
	17.66	76.6	23.06
	16.89	73.8	22.89
	16.12 Mi	71.0	22.71
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	2.80	kW
10	35.00 Specific Power (KW/100 ACFM) 25.00 25.00 20.00		
	15.00 10.00 0.0 25.0	50.0 75.0	100.0
	Capaci Note: Graph is only a visual re Note: Y-Axis Scale, 10 to 35, + 5kW.	y (ACFM) presentation of the data in Section 8	8

\*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: <a href="www.cagi.org">www.cagi.org</a>

NOTES: a. Measu

a. Measured at the discharge terminal point of the compressor package in accordance with

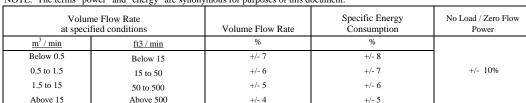
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- ISO 1217, Annex E; act m is actual cubic feet per minute at inlet conditions.

  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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10/11 R7 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.