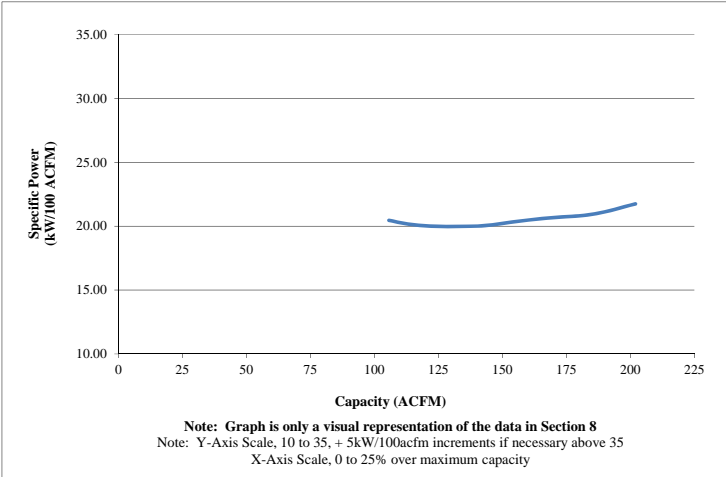


# COMPRESSOR DATA SHEET

## Rotary Compressor: Variable Frequency Drive

### MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: <b>Mattei</b>		
2	Model Number: <b>OPTIMA 37</b>	Date:	<b>Feb-16</b>
	<input checked="checked" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	<b>Vane</b>
	<input checked="checked" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free	# of Stages:	<b>1</b>
3	Rated Operating Pressure	<b>116</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>50</b>	hp
5	Drive Motor Nominal Efficiency	<b>94.5</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>n/a</b>	hp
7	Fan Motor Nominal Efficiency	<b>n/a</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	43.92                                      Max	<b>202.0</b>	<b>21.75</b>
	38.74	<b>185.0</b>	<b>20.93</b>
	33.52	<b>163.0</b>	<b>20.56</b>
	28.09	<b>140.4</b>	<b>20.01</b>
	23.56	<b>117.4</b>	<b>20.07</b>
	21.62                                      Min	<b>105.7</b>	<b>20.46</b>
9*	Total Package Input Power at Zero Flow <sup>c,d</sup>	<b>5.40</b>	kW
10	 <p style="text-align: center;">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</p>		

\*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](http://www.cagi.org)

**NOTES:**

- 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.



Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m <sup>3</sup> / min	ft <sup>3</sup> / min	%	%	
Below 0.5	Below 15	+/- 7	+/- 8	+/- 10%
0.5 to 1.5	15 to 50	+/- 6	+/- 7	
1.5 to 15	50 to 500	+/- 5	+/- 6	
Above 15	Above 500	+/- 4	+/- 5	

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