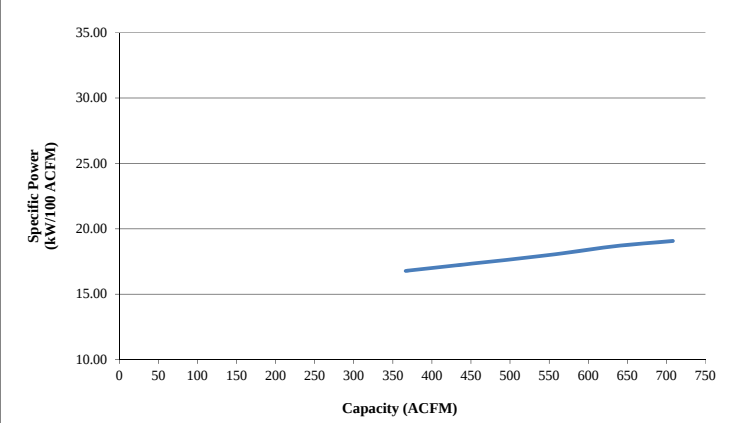


COMPRESSOR DATA SHEET
Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: Mattei Compressors Inc.		
2	Model Number: OPTIMA 110		Date: Jan-17
	☒ Air-cooled ☐ Water-cooled		Type: Vane
	☒ Oil-injected ☐ Oil-free		# of Stages: 1
3	Rated Operating Pressure	102	psig ^b
4	Drive Motor Nominal Rating	150	hp
5	Drive Motor Nominal Efficiency	95.8	percent
6	Fan Motor Nominal Rating (if applicable)	3.8	hp
7	Fan Motor Nominal Efficiency	87	percent
8*	Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	135.10 Max	708.4	19.07
	118.13	633.0	18.66
	100.57	557.3	18.05
	84.39	481.3	17.53
	69.01	405.1	17.04
	61.51 Min	366.6	16.78
9*	Total Package Input Power at Zero Flow ^{c, d}		12.48 kW
10	 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: 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 ³ / min	ft ³ / min	%	%	
Below 0.5	Below 15	+/- 7	+/- 8	
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	+/- 10%

ROT 031

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.