COMPRESSOR DATA SHEET

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR						
Manufacturer: Mattei Compressors						
Model Number: BLADE 18 i	Date:	May-18				
X Air-cooled Water-cooled	Type:	Vane				
X Oil-injected Oil-free	# of Stages:	1				
Rated Operating Pressure	145	$psig^b$				
Drive Motor Nominal Rating	25	hp				
Drive Motor Nominal Efficiency	92.6	percent				
Fan Motor Nominal Rating (if applicable)	n/a	hp				
Fan Motor Nominal Efficiency	n/a	percent				
Input Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d				
21.86 Max	93.2	23.45				
20.21	87.9	22.98				
18.60	82.3	22.60				
17.04	76.6	22.24				
16.28	73.8	22.06				
15.52 Min	71.0	21.86				
Total Package Input Power at Zero Flow ^{c, d}	2.30	kW				
35.00 30.00 30.00 25.00 15.00 10.00 25.0 Capacity Note: Graph is only a visual rep	50.0 75.0 (ACFM) resentation of the data in Section 8	100.0				
	MODEL DATA - FOR CO Manufacturer: Mattei Compressors Model Number: BLADE 18 i x Air-cooled Water-cooled x Oil-injected Oil-free Rated Operating Pressure Drive Motor Nominal Rating Drive Motor Nominal Efficiency Fan Motor Nominal Efficiency Input Power (kW) 21.86 Max 20.21 18.60 17.04 16.28 15.52 Min Total Package Input Power at Zero Flow c, d 35.00 30.00 15.00 Note: Graph is only a visual rep. Note: Y-Axis Scale, 10 to 35, + 5kW/l Note: Y-Axis Scale, 10 to 35, + 5kW/l	MODEL DATA - FOR COMPRESSED AIR Mattei Compressors Model Number: BLADE 18 i Date: x Air-cooled Water-cooled Type: x Oil-injected Oil-free # of Stages: Rated Operating Pressure 145 Drive Motor Nominal Rating 25 Drive Motor Nominal Efficiency 92.6 Fan Motor Nominal Efficiency n/a Fan Motor Nominal Efficiency n/a 21.86 Max 93.2 20.21 87.9 18.60 82.3 17.04 76.6 16.28 73.8 15.52 Min 71.0 Total Package Input Power at Zero Flow ^{c, d} 2.30				

*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%,
- 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.



	ne Flow Rate fied conditions	Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m ³ / 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	

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711 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.