



AMETEK
LAMB ELECTRIC
AIR WATT™
 SERIES

Product Bulletin

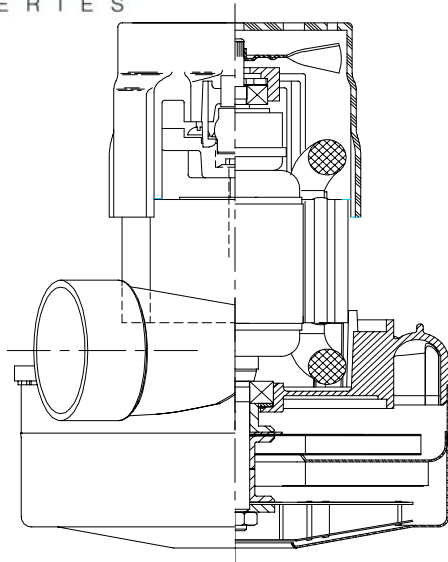
Model: 119913-00/99

DESCRIPTION

- Double stage
- 120 volts
- 5.7"/ 145 mm diameter
- Dual ball bearings
- Single speed
- Tangential bypass discharge
- Thermoset fan end bracket
- Thermoset commutator bracket

DESIGN APPLICATION

- Equipment operating in environments requiring separation of working air from motor ventilating air
- Designed to handle clean, dry, filtered air only



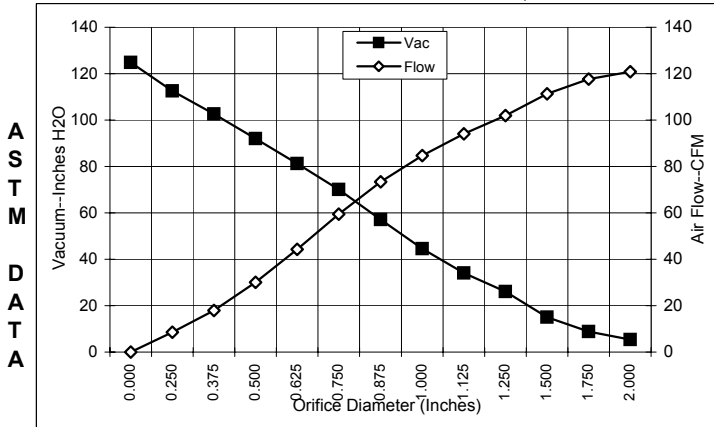
SPECIAL FEATURES

- Suitable for 120 volt AC operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- Provision for grounding
- Skeleton frame design
- Tapered fan system
- The Lamb vacuum motor line offers a wide range of performance levels to meet design needs

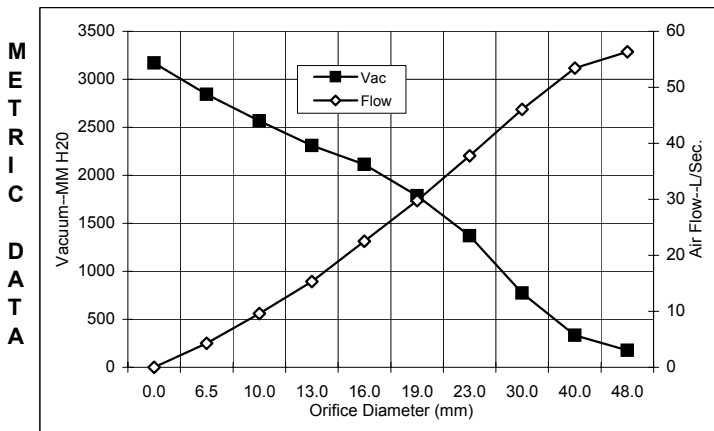
PEAK AIRWATTS
500
 Calculated in accordance with ASTM F2105

TYPICAL MOTOR PERFORMANCE.*

(At 120 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H ₂ O)	Flow (CFM)	Air Watts
2.000	13.6	1580	235120	5.4	120.8	77
1.750	13.7	1587	23470	8.8	117.6	122
1.500	13.8	1600	23330	15.0	111.3	196
1.250	14.0	1618	23240	26.1	101.9	313
1.125	14.0	1622	23180	34.1	94.1	378
1.000	14.0	1619	13176	44.6	84.7	444
0.875	13.8	1596	23403	57.1	73.4	493
0.750	12.6	1548	23786	70.1	59.5	491
0.625	11.7	1465	24460	81.2	44.3	423
0.500	11.6	1363	25510	92.0	30.1	326
0.375	10.6	1246	26770	102.6	17.9	216
0.250	9.7	1146	28073	112.5	8.6	114
0.000	9.0	1070	29136	124.8	0.0	0



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H ₂ O)	Flow (L/Sec)	Air Watts
48.0	13.6	1583	141994	175	56.4	97
40.0	13.8	1596	23372	334	53.4	174
30.0	14.0	1620	23207	775	46.1	348
23.0	13.9	1602	20846	1371	37.8	515
19.0	12.6	1546	23799	1786	29.8	528
16.0	11.7	1468	24433	2115	22.5	470
13.0	11.6	1373	25405	2309	15.3	336
10.0	10.7	1264	26581	2566	9.6	233
6.5	9.7	1151	28008	2845	4.3	119
0.0	9.0	1070	29136	3170	0.0	0

Note: Metric performance data is calculated from the ASTM data above.

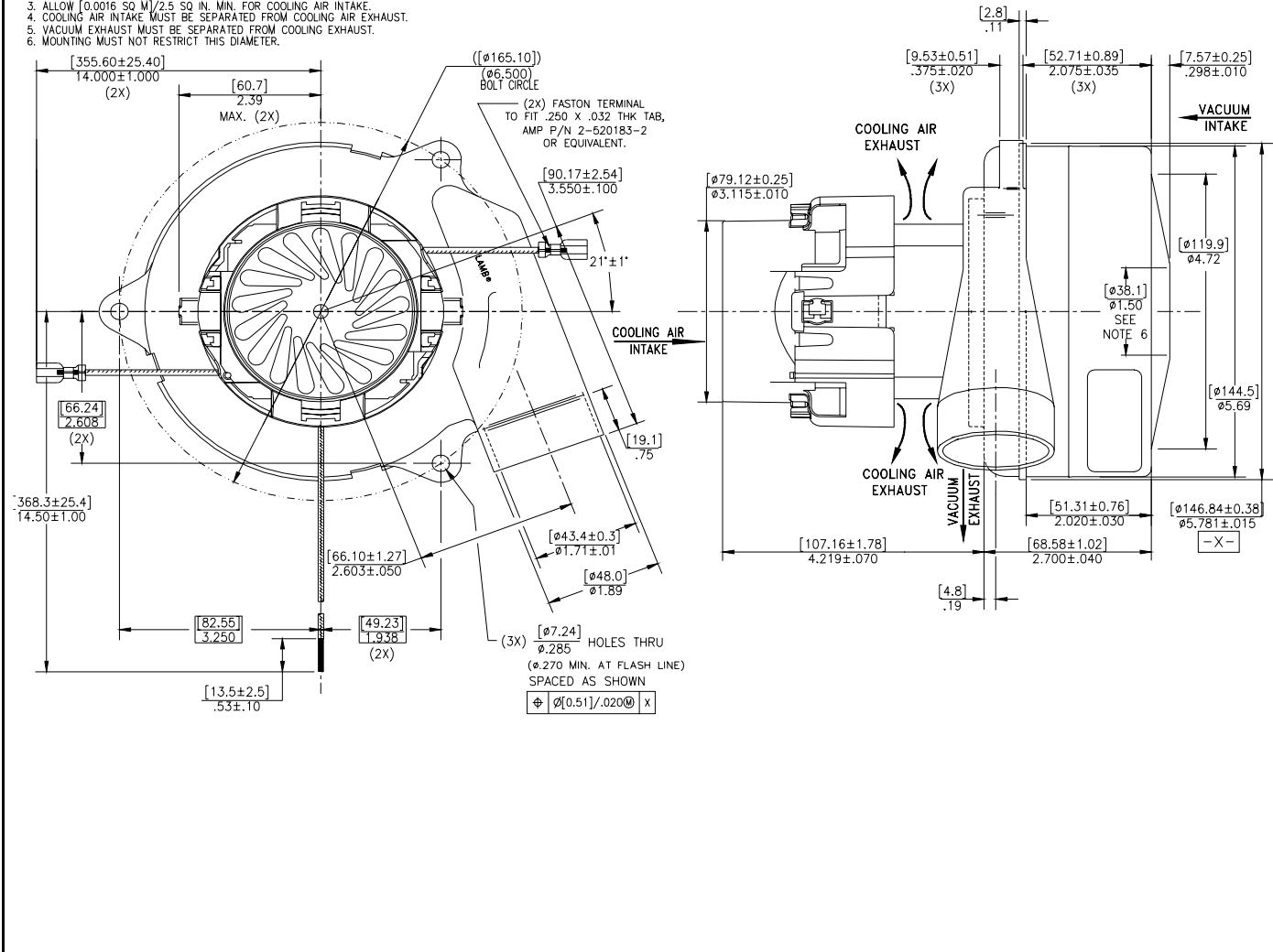
* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary to normal manufacturing variations.

Test Specs:	120 volt	Minimum Sealed Vacuum: 76	115.0	ORIFICE: 7/8"	Minimum Vacuum: 52.0	Maximum Watts: 1675
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DIMENSIONS

NOTES:

1. POWER LEADS: 18GA STRANDED. LEADS CAN BE ANY COLOR EXCEPT GREEN OR GREEN WITH YELLOW STRIPE. GROUND LEAD: 18GA STRANDED, GREEN OR GREEN WITH YELLOW STRIPE.
2. MOTOR IDENTIFICATION: MANUFACTURER'S NAME, MODEL NUMBER, VOLTAGE, FREQUENCY, INSPECTOR'S CODE WITH "FF" SUFFIX, DATE OF MANUFACTURE, AGENCY RECOGNITION CODE, PLANT LOCATION CODE, PATENT INFORMATION ONE OR MORE OF THE FOLLOWING PATENTS APPLY TO THIS MOTOR: 5482378; 5736805; 4669952; 4684835; 6561772. AND COUNTRY OF ORIGIN.
3. ALLOW [0.0016 SQ M]/2.5 SQ IN. MIN. FOR COOLING AIR INTAKE.
4. COOLING AIR INTAKE MUST BE SEPARATED FROM COOLING AIR EXHAUST.
5. VACUUM EXHAUST MUST BE SEPARATED FROM COOLING AIR EXHAUST.
6. MOUNTING MUST NOT RESTRICT THIS DIAMETER.



IMPORTANT NOTE: Pictorial and dimensional data are subject to change without notice. Contact factory for current revision levels.

WARNING - When using AMETEK/Lamb Electric bypass motors in machines that come in contact with foam, liquid (including water) of other foreign substances, the machine must be designed and constructed to prevent those substances from reaching the fan system, motor housing and electrical components. Lamb vacuum motors other than hazardous duty models should not be applied in machines that come in contact with dry chemicals or other volatile materials. Failure to observe these precautions could cause flashing (depending on volatility) or electrical shock which could result in property damage and severe bodily injury, including death in extreme cases. All applications incorporating Lamb motors should be submitted to appropriate organizations or agencies for testing specifically related to the safety of your equipment.

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