



# AMETEK

## LAMB ELECTRIC

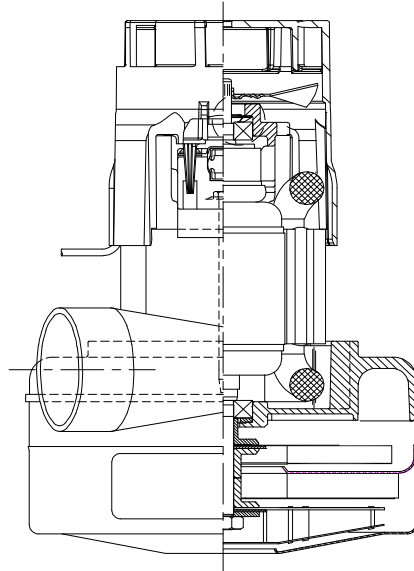
# Product Bulletin

**Model: 119787-07**

### SPECIAL FEATURES

- Suitable for 240 volt AC operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- Provision for grounding
- Skeleton frame design
- Tapered fan system
- High air flow fan system
- The Lamb vacuum motor line offers a wide range of performance levels to meet design needs

-07 Version has terminals on the power



### DESCRIPTION

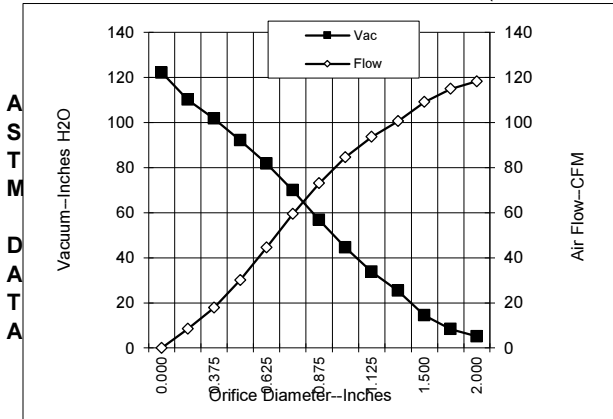
- Two stage Fan System
- 240 volts
- 5.7"/ 145 mm diameter
- Dual ball bearings
- Single speed
- Tangential bypass discharge
- Thermoset fan end bracket
- Thermoset commutator bracket

### DESIGN APPLICATION

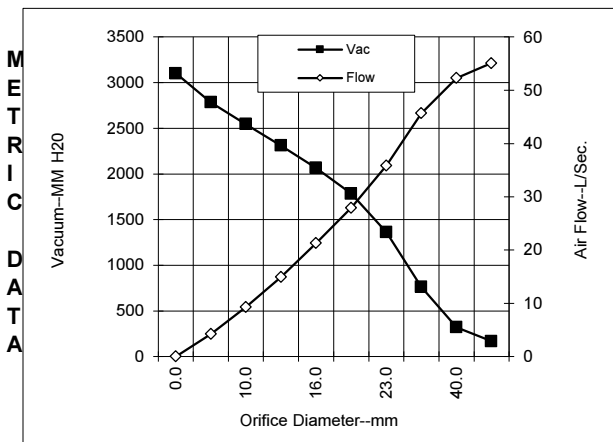
- Equipment operating in environments not requiring separation of working air from motor ventilating air
- Designed to handle clean, dry, filtered air only

### 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.H2O)	Flow (CFM)	Air Watts
2.000	6.3	1470	23139	5.2	118.2	72
1.750	6.4	1474	23039	8.4	114.9	113
1.500	6.4	1483	22989	14.4	109.0	184
1.250	6.5	1505	22824	25.4	100.6	300
1.125	6.5	1510	22799	33.8	93.7	371
1.000	6.5	1507	22773	44.5	84.6	442
0.875	6.4	1487	22939	56.7	73.1	486
0.750	6.2	1440	23264	70.0	59.5	488
0.625	5.9	1362	23979	81.8	44.5	427
0.500	5.4	1263	24909	92.1	30.1	326
0.375	4.9	1155	26039	101.7	17.8	213
0.250	4.5	1063	27219	110.1	8.5	110
0.000	4.2	994	28374	122.1	0.0	0



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (L/Sec)	Air Watts
48.0	6.4	1471	23095	167	55.1	90
40.0	6.4	1480	23004	320	52.3	163
30.0	6.5	1507	22810	762	45.7	339
23.0	6.5	1492	22897	1362	35.9	475
19.0	6.2	1438	23278	1783	27.9	487
16.0	5.9	1365	23950	2065	21.3	429
13.0	5.5	1273	24816	2312	14.9	336
10.0	5.0	1171	25869	2546	9.3	230
6.5	4.5	1067	27160	2785	4.2	115
0.0	4.2	994	28374	3100	0.0	0

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

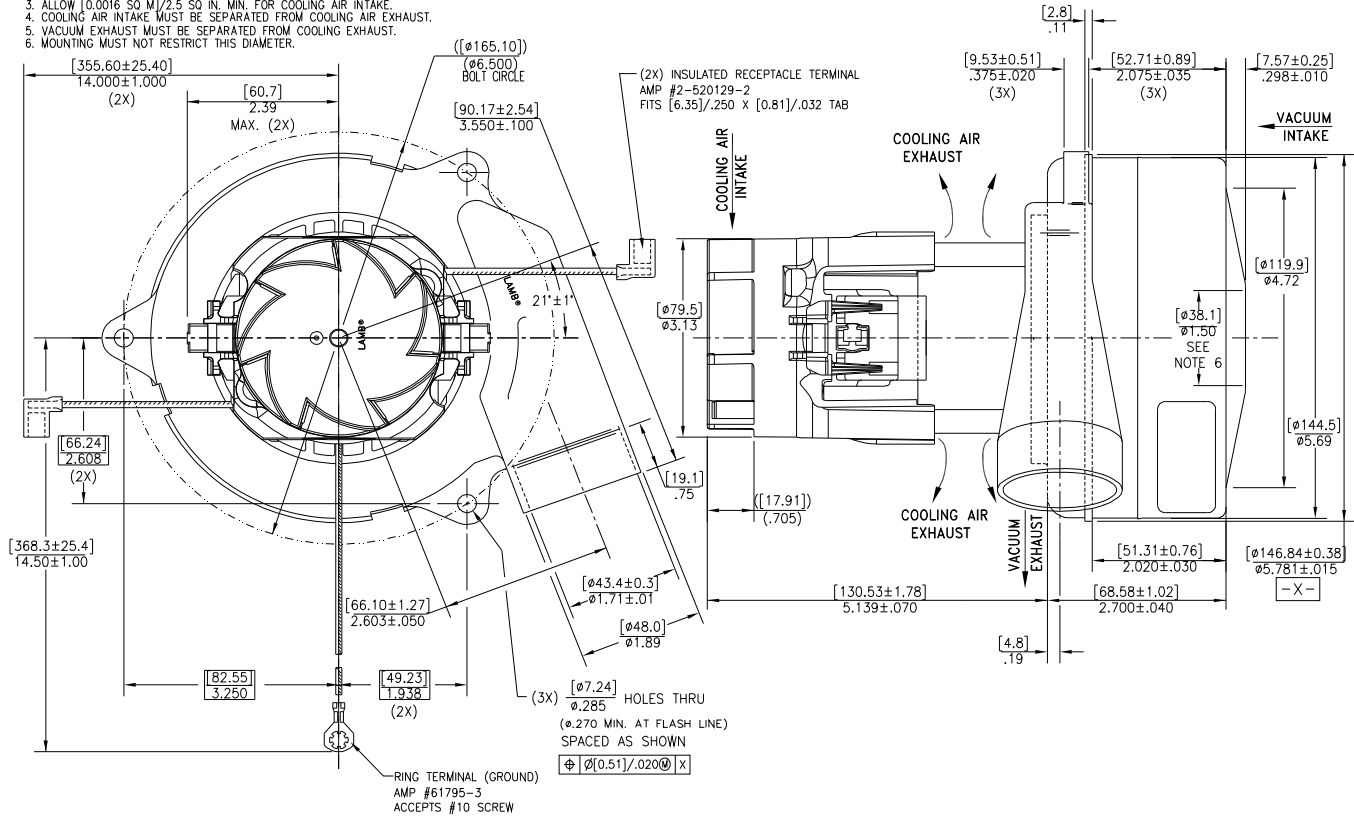
\* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary to normal manufacturing variations.

Test Specs: 120 volts	Minimum Sealed Vacuum: 114"	ORIFICE: 7/8"	Minimum Vacuum: 54"	Maximum Watts: 1625
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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 MI]/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** - Ametek/Lamb Electric thru-flow vacuum motors must never be used in applications in which wet or moist conditions are involved, where dry chemicals or other volatile materials are present or where airflow may be restricted or blocked. Such motors are designed to permit the vacuumed air to pass over the electrical winding to cool it. Thus any foam, liquid (including water), dry chemical or other foreign substance will come in contact with electrical conductors which could cause combustion (depending on volatility) or electrical shock. Failure to observe these precautions could result in property damage and severe personal injury, including death in extreme cases. All applications incorporating Lamb motors should be submitted to Underwriters Laboratories Inc. or other appropriate organizations or agencies for testing specifically related to the safety of your equipment.

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