



AMETEK LAMB ELECTRIC

Product Bulletin

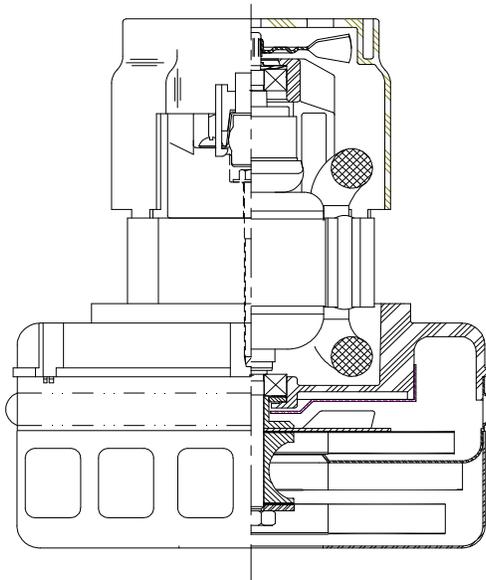
Model: 119701-18

DESCRIPTION

- Two stage
- 240 volts
- 5.7"/145 mm diameter
- Double ball bearings
- Single speed
- Peripheral bypass discharge
- Thermostat fan end bracket
- Aluminum 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

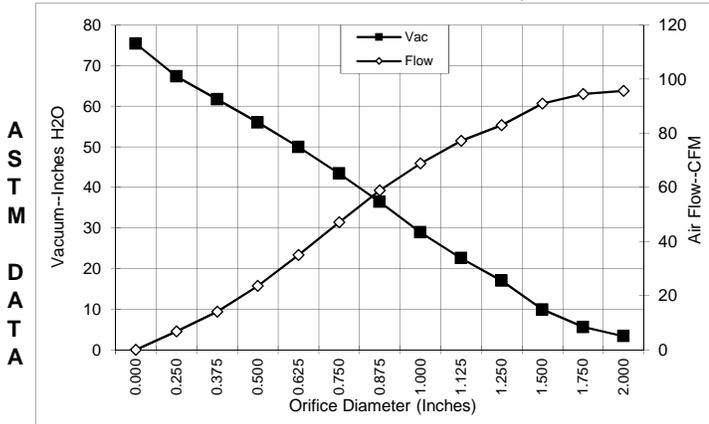


SPECIAL FEATURES

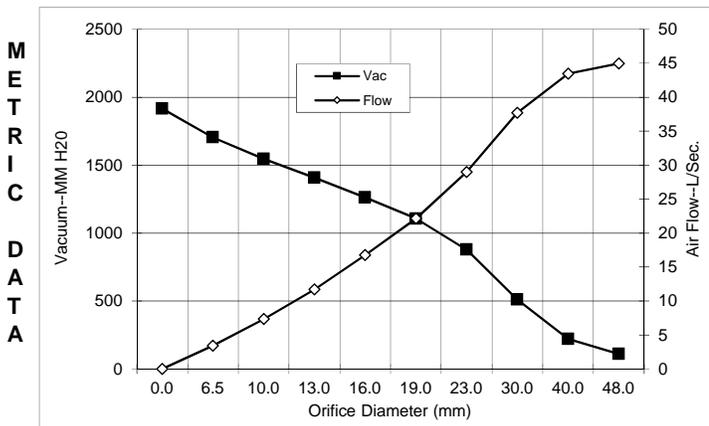
- Suitable for 240 volt AC operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- Provision for grounding
- Skeleton-frame design
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs
- 18 Version includes "enhanced air seal bearing protection"

TYPICAL MOTOR PERFORMANCE.*

(At 240 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	3.9	856	16876	3.3	95.7	38
1.750	3.9	859	16819	5.6	94.5	62
1.500	3.9	863	16752	9.9	91.0	106
1.250	3.9	870	16695	17.0	83.0	166
1.125	3.9	864	16732	22.6	77.2	204
1.000	3.9	854	16861	28.9	68.9	234
0.875	3.8	834	17084	36.4	58.9	252
0.750	3.6	804	17454	43.4	47.1	240
0.625	3.4	758	18013	50.0	35.0	205
0.500	3.2	708	18695	56.0	23.6	155
0.375	2.9	658	19456	61.7	14.1	102
0.250	2.7	610	20257	67.3	6.9	54
0.000	2.5	571	21053	75.4	0.0	0



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H ₂ O)	Flow (L/Sec)	Air Watts
48.0	3.9	857	16851	110	44.9	48
40.0	3.9	862	16772	219	43.5	93
30.0	3.9	867	16715	510	37.7	187
23.0	3.8	839	17028	877	29	515
19.0	3.6	803	17466	1106	22	528
16.0	3.4	760	17991	1262	17	470
13.0	3.2	713	18627	1407	12	160
10.0	3.0	666	19342	1545	7	110
6.5	2.7	613	20217	1703	3.4	57
0.0	2.5	571	21053	1915	0.0	0

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

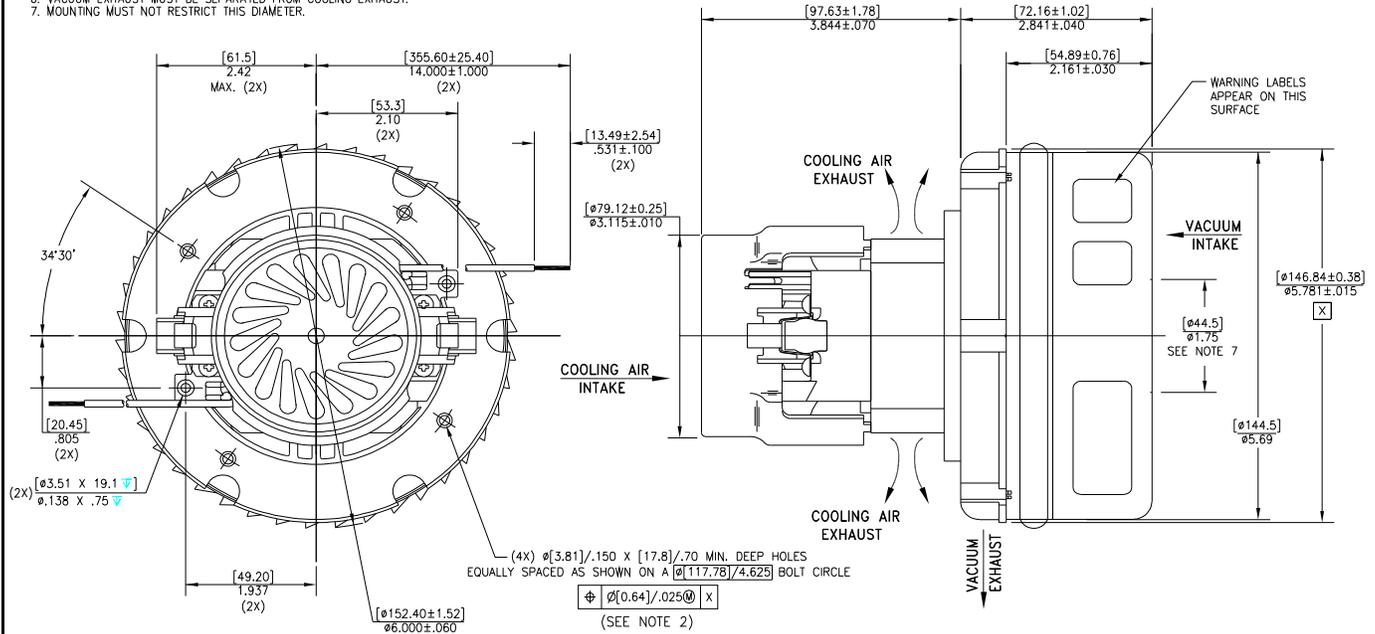
* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary to normal manufacturing variations.

Test Specs:	240 volt	Minimum Sealed Vacuum: 69"	ORIFICE: 13mm	Minimum Vacuum: 50"	Maximum Watts: 800
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DIMENSIONS

NOTES:

1. LEADS: 18GA STRANDED. LEADS CAN BE ANY COLOR EXCEPT GREEN OR GREEN WITH YELLOW STRIPE.
2. RECOMMENDED SCREW SIZE 10-16 TYPE BT OR 25 THREAD CUTTING SCREW. MAXIMUM PENETRATION [17.40]/.685.
3. MOTOR IDENTIFICATION: MANUFACTURER'S NAME, MODEL NUMBER, VOLTAGE, FREQUENCY, INSPECTOR'S CODE, DATE OF MANUFACTURE, AGENCY RECOGNITION CODE, PLANT LOCATION CODE, PATENT INFORMATION "ONE OR MORE OF THE FOLLOWING U.S. PATENTS APPLY TO THIS MOTOR: 5482378; 4669952; 6472786; PATENT PENDING", AND COUNTRY OF ORIGIN.
4. ALLOW [0.0016 SQ M]/2.5 SQ IN. MIN. FOR COOLING AIR INTAKE.
5. COOLING AIR INTAKE MUST BE SEPARATED FROM COOLING AIR EXHAUST.
6. VACUUM EXHAUST MUST BE SEPARATED FROM COOLING AIR EXHAUST.
7. 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.

AMETEK/Dynamic Fluid Solutions
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