



AMETEK

LAMB ELECTRIC

AIR WATT™
S E R I E S

Product Bulletin

Model: 119917-12

SPECIAL FEATURES

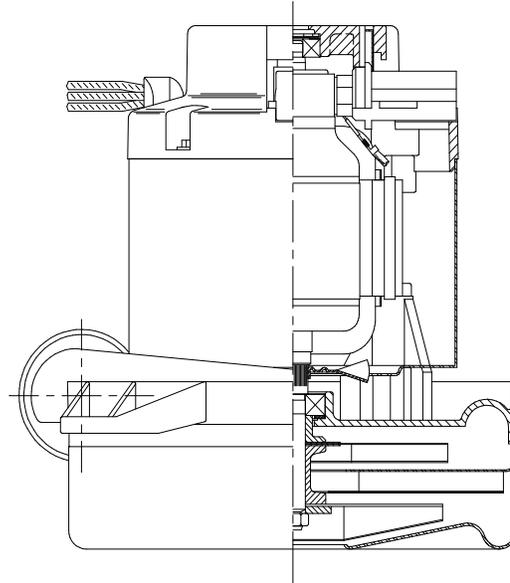
- **600+ Peak Air Watts**
- High Efficiency Lamination
- 10 mm shaft and bearing system
- **High Efficiency Fan System**
- Epoxy painted fan case
- Aluminum brackets to dampen vibration & improve durability- Suitable for 120 volt AC operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- CSA certified, class 1611 01 (LR31393)
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs

DESCRIPTION

- Two stage
- 120 volts
- **3.5" High Efficiency Lamination**
- 7.2"/183 mm diameter
- Double ball bearings
- High Efficiency Fan System
- Tangential bypass discharge
- Aluminum 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



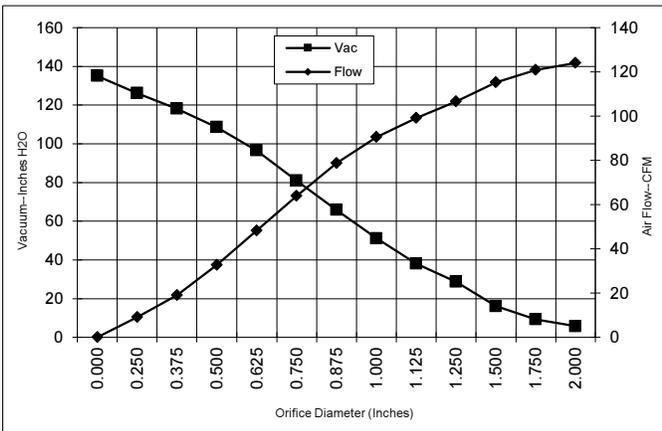
PEAK AIRWATTS
609

Calculated in accordance with ASTM F2105

TYPICAL MOTOR PERFORMANCE.*

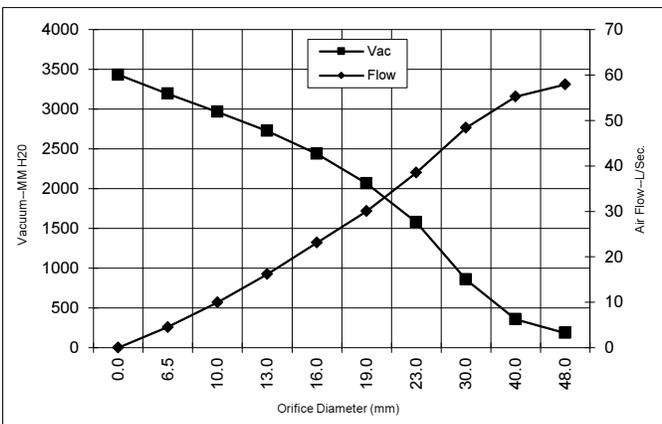
(At 120 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM DATA



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H ₂ O)	Flow (CFM)	Air Watts
2.000	14.6	1671	23730	5.7	124.0	83
1.750	14.7	1681	23676	9.3	120.9	132
1.500	14.8	1688	23645	16.1	115.3	218
1.250	14.9	1701	23570	28.6	106.6	359
1.125	14.9	1701	23505	38.0	99.2	443
1.000	14.8	1694	23595	51.1	90.5	544
0.875	14.6	1667	23720	65.8	78.7	609
0.750	14.1	1615	24080	81.0	63.9	609
0.625	13.2	1517	24615	96.6	48.3	549
0.500	12.2	1403	25585	108.5	32.7	417
0.375	10.8	1255	26750	118.1	19.1	265
0.250	9.8	1142	27735	126.1	9.1	135
0.000	9.2	1062	28625	135.0	0.0	0

METRIC DATA



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H ₂ O)	Flow (L/Sec)	Air Watts
48.0	14.6	1675	23706	185	57.9	105
40.0	14.8	1686	23654	357	55.2	193
30.0	14.9	1701	23534	858	48.4	405
23.0	14.7	1674	23689	1578	38.5	593
19.0	14.1	1613	24091	2065	30.0	608
16.0	13.2	1521	24594	2438	23.1	551
13.0	12.3	1414	25488	2726	16.2	431
10.0	11.0	1277	26575	2963	10.0	288
6.5	9.9	1148	27686	3193	4.5	142
0.0	9.2	1062	28625	3429	0.0	0

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

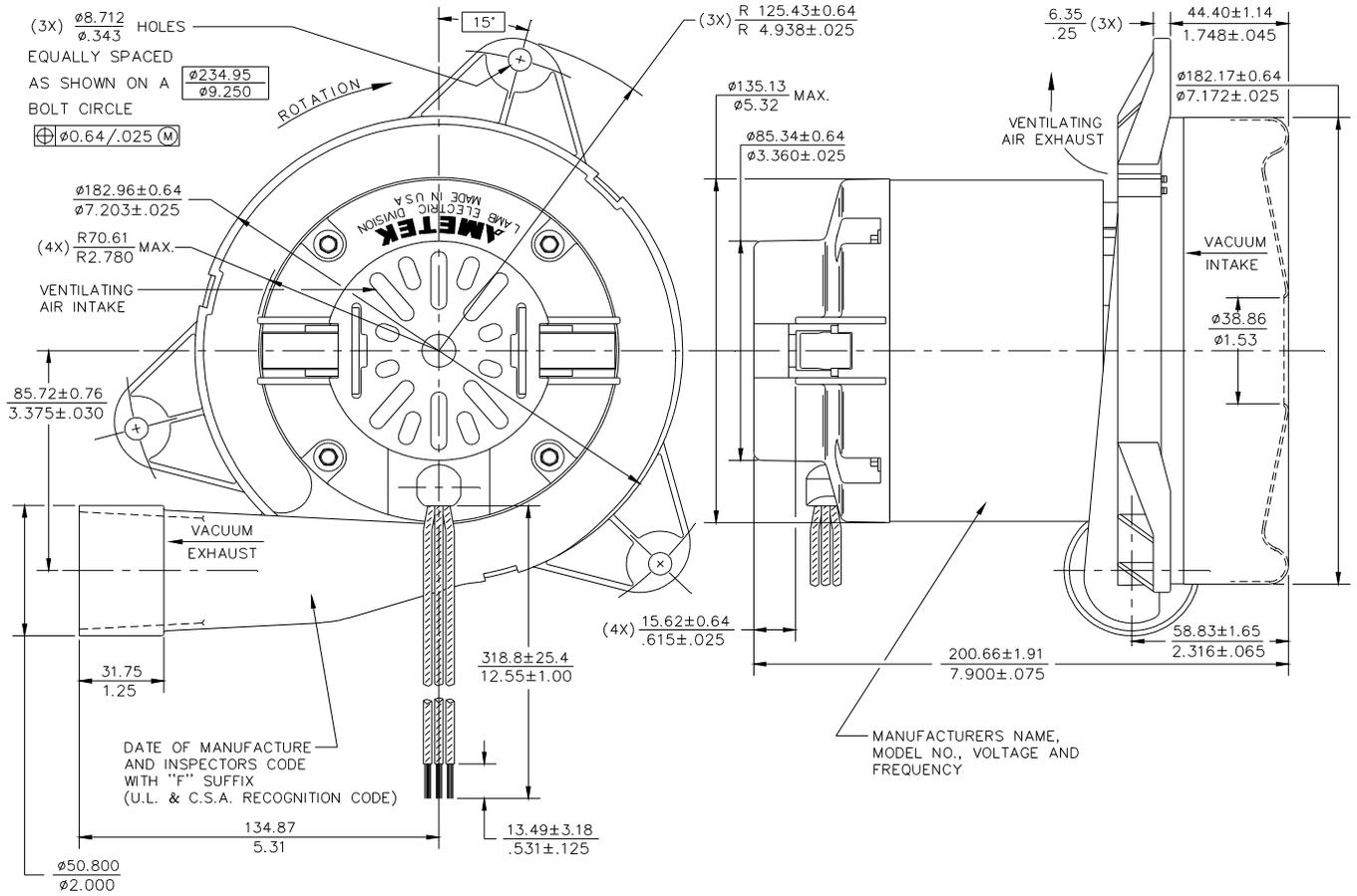
* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary due to normal manufacturing variations.

Test Specs:	120 volts	Minimum Sealed Vacuum: 123"	ORIFICE: 7/8"	Minimum Vacuum: 58"	Maximum Watts: 1760
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DIMENSIONS

NOTES:

1. LEADS: 16GA. STRANDED, ONE BLACK AND ONE WHITE. GROUND LEAD: 18GA. STRANDED, GREEN WITH YELLOW STRIPE.



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), or 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 Electric 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 Electric 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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