



LAMB ELECTRIC

Model: 122151-12

AIR WATT™
S E R I E S

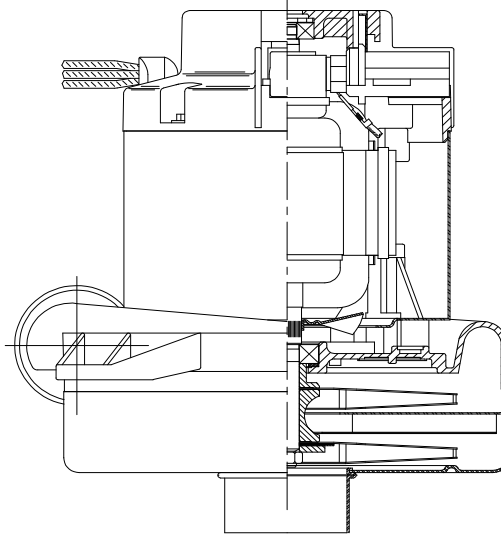
SPECIAL FEATURES

DESCRIPTION

- Two stage
- 230 volts
- **3.5" High Efficiency Lamination**
- 7.2"/183 mm diameter
- Double ball bearings
- **Self Cleaning 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

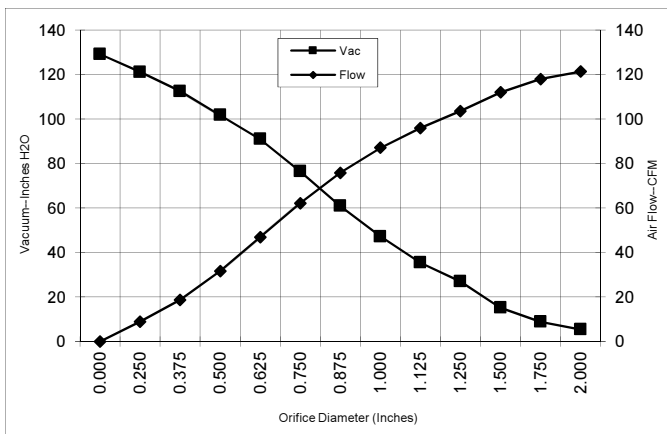


- **600 Peak Air Watts**
- High Efficiency Lamination
- 10 mm shaft and bearing system
- **Self Cleaning Fan System**
- Epoxy painted fan case
- 2" Inlet tube
- Aluminum brackets to dampen vibration & improve durability
- Suitable for 240 volt AC, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs

TYPICAL MOTOR PERFORMANCE.*

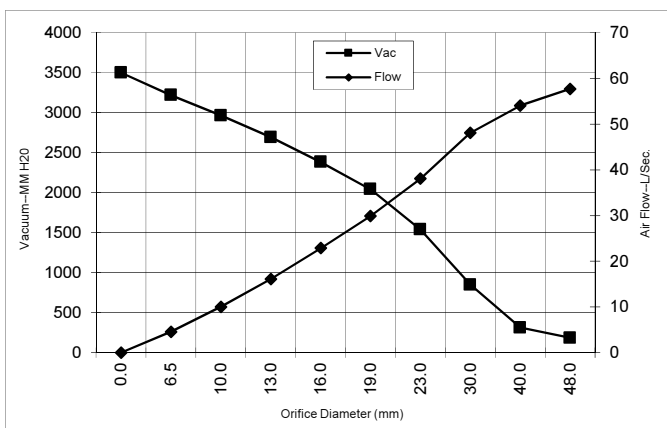
(At 230 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM DATA



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H2O)	Flow (CFM)	Air Watts
2.000	8.0	1727	20610	5.4	121.4	78
1.750	8.0	1726	20555	8.9	118.0	123
1.500	8.0	1728	20565	15.2	112.0	200
1.250	8.0	1723	20595	27.0	103.6	329
1.125	8.0	1718	20590	35.5	95.9	400
1.000	7.9	1705	20675	47.2	87.1	484
0.875	7.8	1674	20845	60.9	75.8	543
0.750	7.5	1612	21240	76.5	62.2	559
0.625	7.0	1511	21845	91.0	46.9	502
0.500	6.4	1382	22720	101.8	31.7	380
0.375	5.7	1250	23790	112.5	18.7	248
0.250	5.1	1126	24865	121.1	8.9	128
0.000	4.7	1028	25930	129.1	0.0	0

METRIC DATA



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (L/Sec)	Air Watts
48.0	8.1	1848	23698	184	57.7	104
40.0	8.1	1849	24255	312	54.0	158
30.0	8.2	1849	21279	847	48.1	398
23.0	8.0	1819	21466	1538	38.0	570
19.0	7.7	1751	21870	2042	29.9	598
16.0	7.2	1652	22471	2382	22.8	533
13.0	6.6	1522	23313	2693	16.1	423
10.0	6.0	1376	24347	2963	10.0	288
6.5	5.1	1215	25172	3217	4.6	143
0.0	4.8	1105	26594	3497	0.0	0

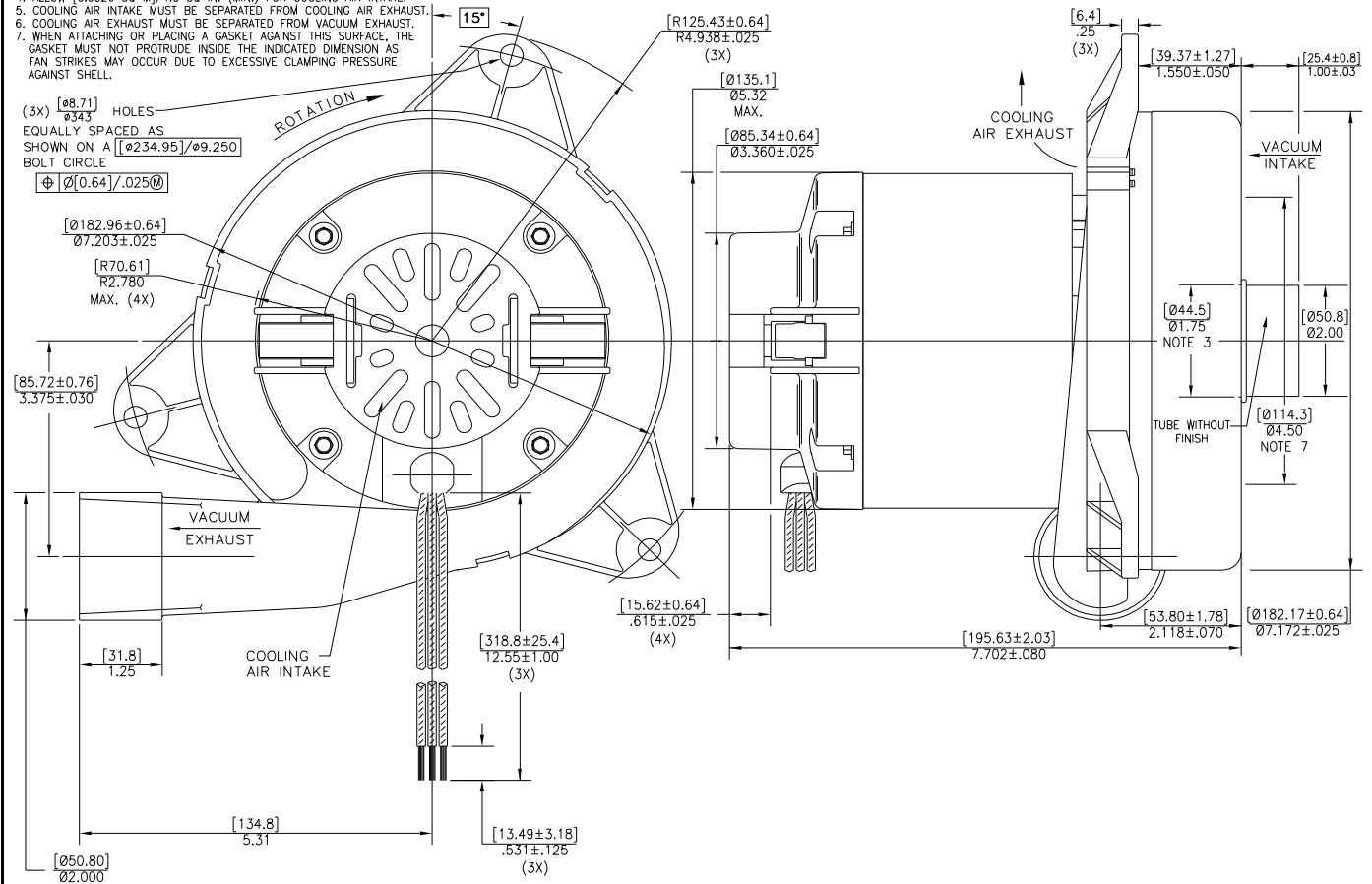
Note: Metric Performance data is calculated from the ASTM data above.

* 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:	230	Minimum Sealed Vacuum:	128.0	ORIFICE:	7/8"	Minimum Vacuum:	59.0	Maximum Watts:	1860
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DIMENSIONS

1. LEADS: 18GA. STRANDED, ONE BLACK AND ONE WHITE. GROUND LEAD: 18GA. STRANDED, 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, PATENTS: *4698534; 4621991; PATENT PENDING* AND COUNTRY OF ORIGIN.
3. MOUNTING MUST NOT RESTRICT THIS DIAMETER.
4. ALLOW [0.0026 SO M]/4.0 SO IN. (MIN.) FOR COOLING AIR INTAKE.
5. COOLING AIR INTAKE MUST BE SEPARATED FROM COOLING AIR EXHAUST.
6. COOLING AIR EXHAUST MUST BE SEPARATED FROM VACUUM EXHAUST.
7. WHEN ATTACHING OR PLACING A GASKET AGAINST THIS SURFACE, THE GASKET MUST NOT PROTRUDE INSIDE THE INDICATED DIMENSION AS FAN STRIKES MAY OCCUR DUE TO EXCESSIVE CLAMPING PRESSURE AGAINST SHELL.



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
www.ametekdfs.com