AMETEK

Product Bulletin

LAMB ELECTRIC

AIR WATT™ SERIES

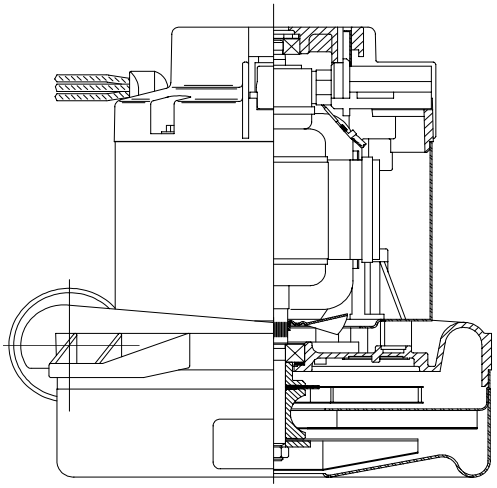
Model: 122031-12

DESCRIPTION

- Two stage
- Suitable for **115 volts only**
- 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



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 115 volt AC operation, 50/60 Hz**
- UL recognized, category PRGY2 (E47185)

PEAK AIRWATTS

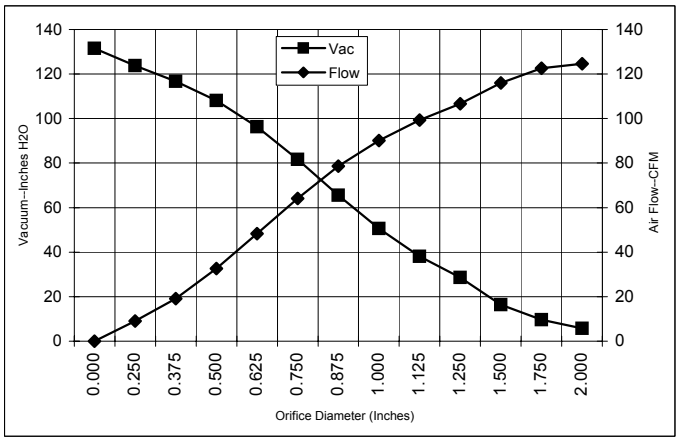
618

Calculated in accordance with ASTM F2105

TYPICAL MOTOR PERFORMANCE.

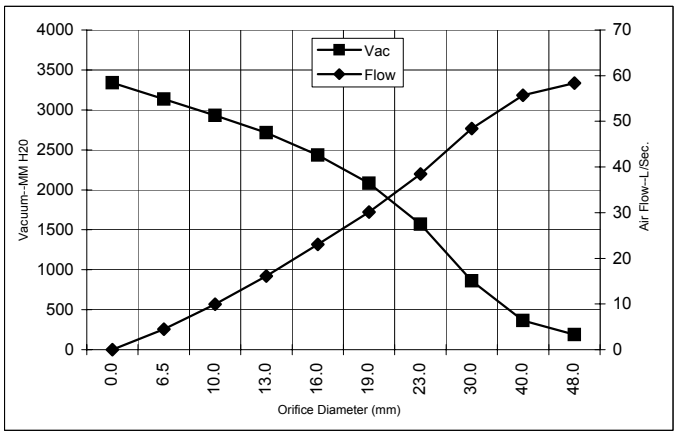
(At **115 volts** , 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM DATA



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H2O)	Flow (CFM)	Air Watts
2.000	16.1	1737	24560	5.8	124.6	84
1.750	16.1	1744	24580	9.6	122.7	139
1.500	16.1	1747	24580	16.4	116.0	223
1.250	16.2	1752	24580	28.7	106.6	359
1.125	16.2	1751	24580	38.1	99.3	445
1.000	16.1	1737	24580	50.6	90.1	536
0.875	15.8	1706	24580	65.6	78.6	607
0.750	15.2	1651	24980	81.6	64.2	616
0.625	14.4	1560	25380	96.4	48.3	547
0.500	13.3	1448	26550	108.0	32.6	415
0.375	11.9	1306	27340	116.7	19.1	262
0.250	10.7	1181	28930	123.7	9.0	131
0.000	10.0	1107	29330	131.5	0.0	0

METRIC DATA



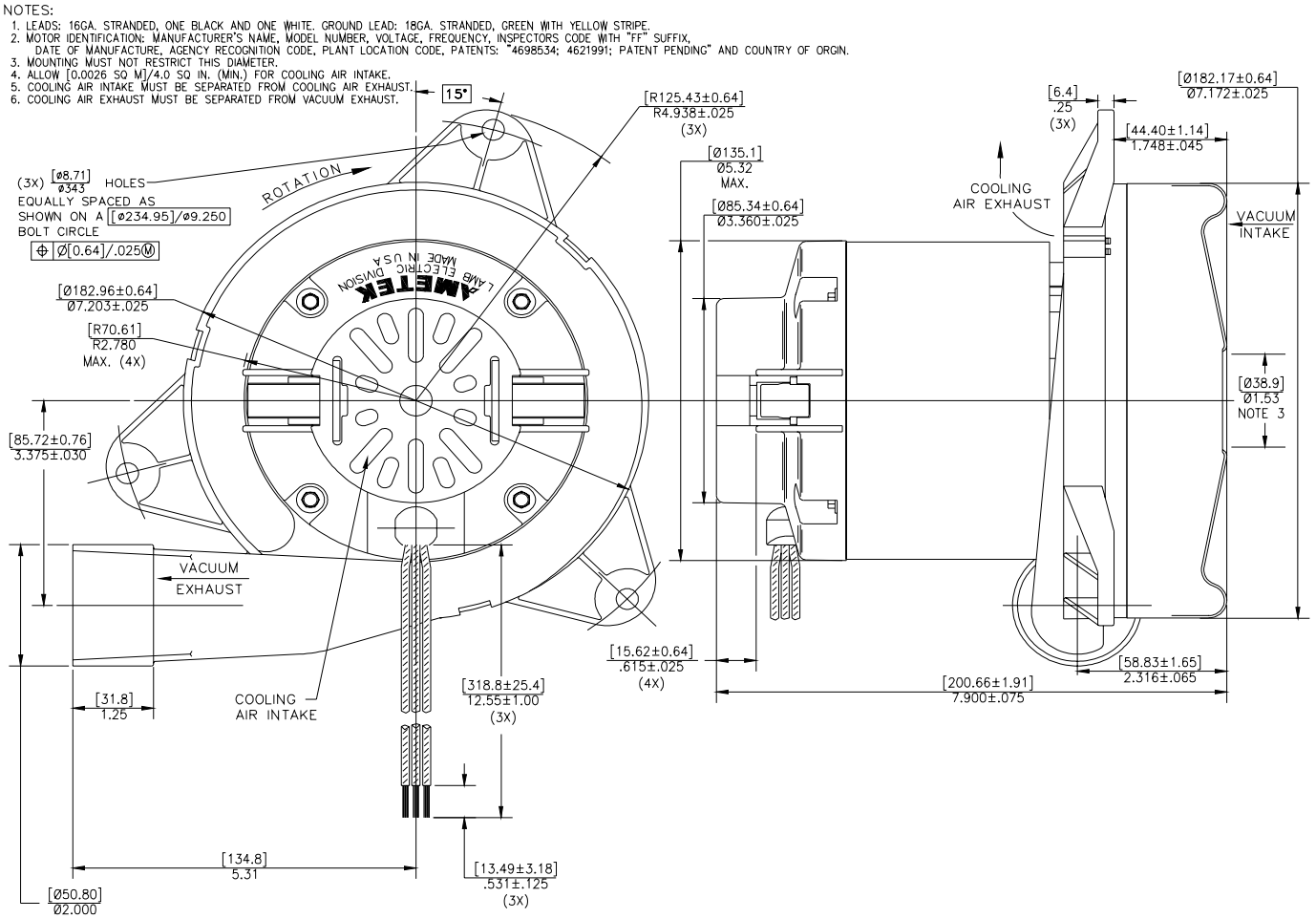
Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (L/Sec)	Air Watts
48.0	16.1	1740	24569	189	58.4	108
40.0	16.1	1746	24580	364	55.7	198
30.0	16.2	1751	24580	860	48.4	406
23.0	15.8	1714	24580	1571	38.4	589
19.0	15.2	1649	24988	2080	30.1	614
16.0	14.4	1564	25364	2433	23.1	550
13.0	13.4	1459	26433	2714	16.1	428
10.0	12.1	1327	27222	2931	10.0	285
6.5	10.8	1187	28851	3134	4.5	138
0.0	10.0	1107	29330	3339	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:**	120.0"	**ORIFICE:**	7/8"	**Minimum Vacuum:**	55.0"	**Maximum Watts:**	1750

DIMENSIONS



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.

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