



AMETEK LAMB ELECTRIC

Product Bulletin

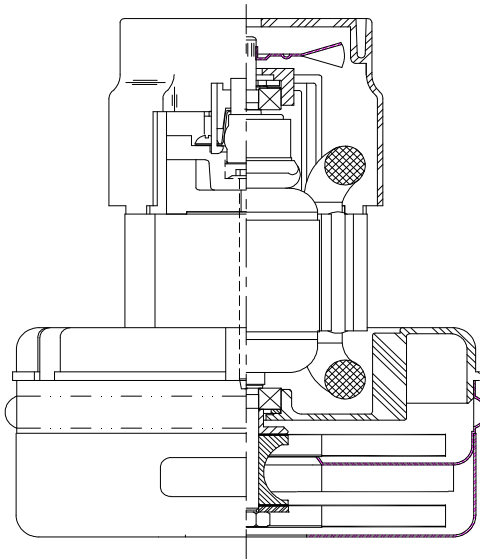
Model: 122381-00

DESCRIPTION

- Two stage
- 120 volts
- 5.7"/145 mm diameter
- Double ball bearings
- Single speed
- Peripheral bypass discharge
- Thermostet 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



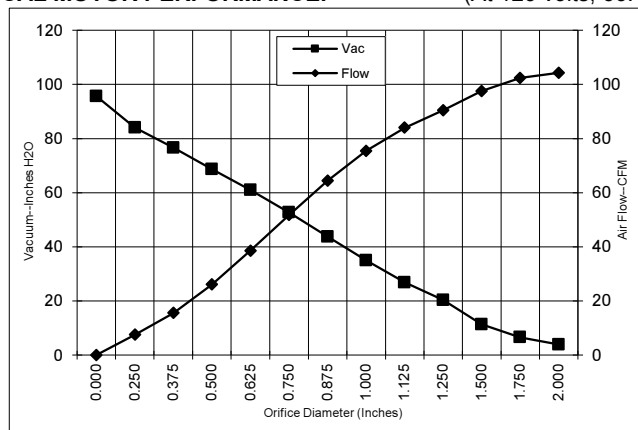
SPECIAL FEATURES

- Suitable for 120 volt AC operation, 60 Hz
- UL recognized, category PRGY2 (E47185)
- Provision for grounding
- Open frame design
- Thermostat
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs

TYPICAL MOTOR PERFORMANCE.*

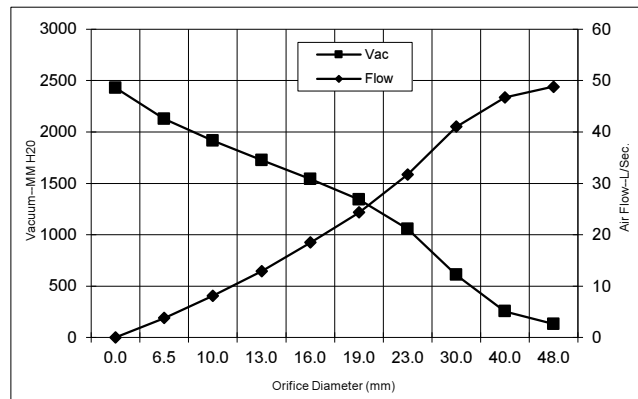
(At 120 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM DATA



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H2O)	Flow (CFM)	Air Watts
2.000	9.2	1060	19066	4.0	104.2	48.7
1.750	9.2	1065	19008	6.6	102.3	79.4
1.500	9.3	1073	18918	11.4	97.5	130.9
1.250	9.3	1076	18818	20.4	90.4	216.1
1.125	9.4	1085	18767	26.9	84.0	265.2
1.000	9.4	1080	18792	35.0	75.4	310.2
0.875	9.3	1062	18984	43.8	64.5	331.3
0.750	8.9	1029	19353	52.7	51.8	320.1
0.625	8.4	974	19968	61.0	38.6	276.4
0.500	7.8	910	20787	68.7	26.1	210.6
0.375	7.2	844	21782	76.6	15.6	140.4
0.250	6.7	781	22732	84.1	7.6	74.7
0.000	6.2	731	23829	95.6	0.0	0.0

METRIC DATA



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (L/Sec)	Air Watts
48.0	9.2	1062	19041	130	48.8	62.2
40.0	9.3	1071	18945	254	46.7	115.4
30.0	9.4	1081	18790	609	41.0	243.1
23.0	9.3	1067	18936	1057	31.7	326.0
19.0	8.9	1028	19365	1342	24.3	319.2
16.0	8.4	976	19943	1541	18.5	278.1
13.0	7.9	917	20705	1726	12.9	217.2
10.0	7.3	854	21633	1916	8.1	150.9
6.5	6.7	784	22684	2126	3.8	77.9
0.0	6.2	731	23829	2428	0.0	0.0

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

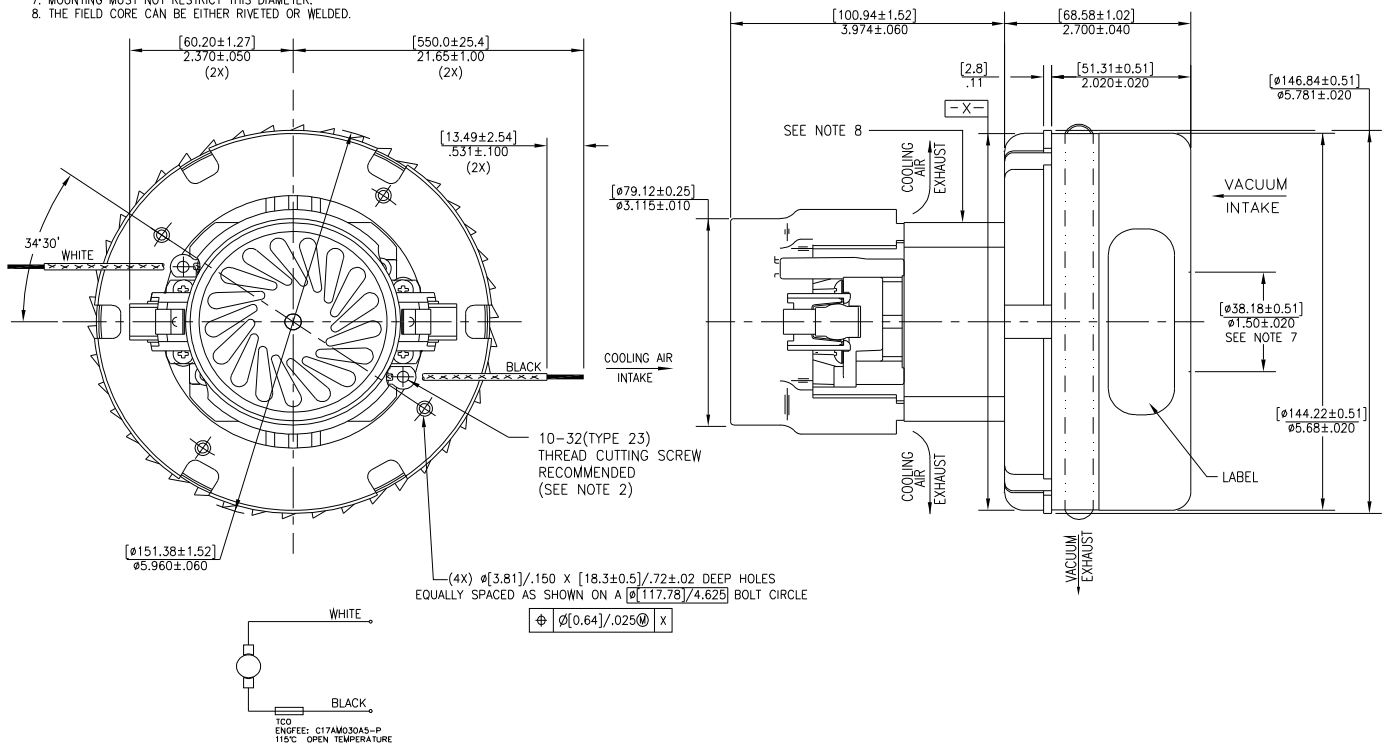
* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary due to normal manufacturing variations.

Test Specs:	120 volts	Minimum Sealed Vacuum:	86.0"	ORIFICE:	7/8"	Minimum Vacuum:	40.0"	Maximum Watts:	1120
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DIMENSIONS

NOTES:

1. LEADS: 18GA STRANDED, LEADS CAN BE ANY COLOR EXCEPT GREEN OR GREEN WITH YELLOW STRIPE.
2. GROUNDING OR EARTHING PROVISIONS: USE HOLES AS INDICATED FOR GROUNDING OR EARTHING. REFER TO APPROPRIATE LISTING OR REGULATORY AGENCY FOR PROPER METHOD OF GROUNDING OR EARTHING.
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 PATENTS APPLY TO THIS MOTOR: 5482378; 5736805; 4669952; 4684835, 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 SEPERATED FROM COOLING AIR EXHAUST.
6. VACUUM EXHAUST MUST BE SEPERATED FROM COOLING EXHAUST.
7. MOUNTING MUST NOT RESTRICT THIS DIAMETER.
8. THE FIELD CORE CAN BE EITHER RIVETED OR WELDED.



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