



AMETEK

LAMB ELECTRIC

Product Bulletin

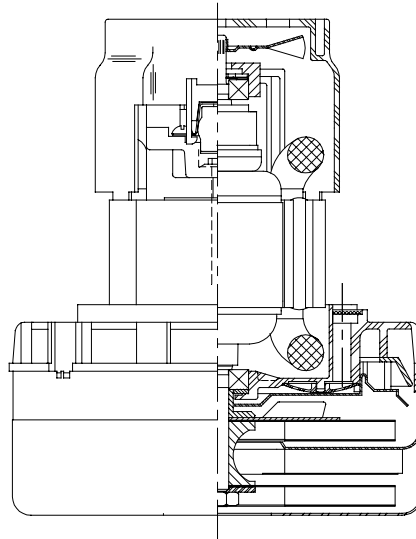
Model: 117307-13

DESCRIPTION

- Two stage
- 240 volt
- 5.7"/145 mm diameter
- Double ball bearings
- Single speed
- ACUSTEK® low-noise peripheral bypass discharge
- Thermoset 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

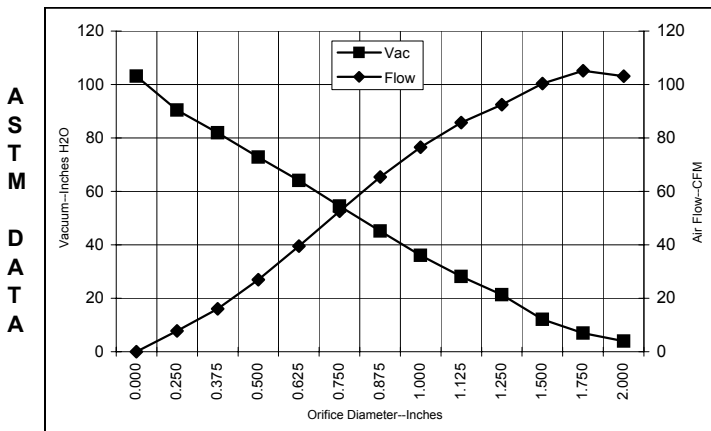


SPECIAL FEATURES

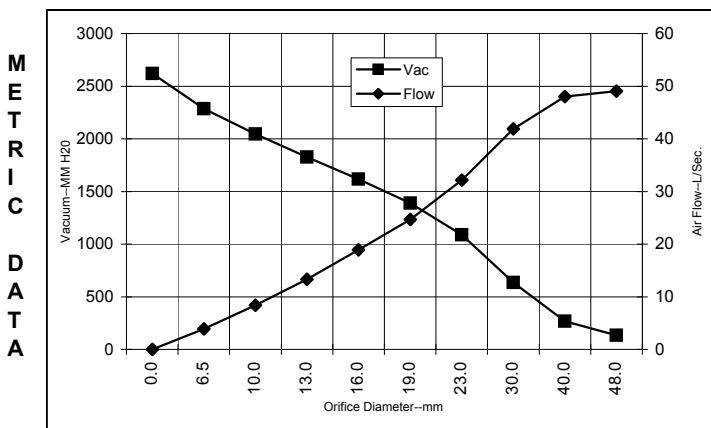
- Suitable for 240 volt AC operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- Provision for grounding
- Skeleton-frame design
- Epoxy painted fan case
- Patented air seal bearing construction. U.S. Patent #4,088,424
- ACUSTEK® low noise design, U.S. Patent #1,417,2000
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs

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	5.1	1137	19350	3.9	103.1	47
1.750	5.1	1136	19280	6.9	105.1	86
1.500	5.1	1144	19110	12.1	100.3	143
1.250	5.2	1151	19050	21.3	92.5	232
1.125	5.2	1150	19050	28.1	85.7	283
1.000	5.1	1142	19070	36.1	76.5	325
0.875	5.0	1132	19270	45.1	65.4	347
0.750	4.8	1105	19630	54.5	52.6	337
0.625	4.5	1038	20350	64.1	39.5	297
0.500	4.1	958	21180	72.8	26.9	230
0.375	3.8	877	22380	81.9	16.1	155
0.250	3.4	801	23550	90.4	7.8	83
0.000	3.2	743	24440	103.1	0.0	0



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H ₂ O)	Flow (L/Sec)	Air Watts
48.0	5.1	1137	19319	133	49.1	64
40.0	5.1	1142	19161	268	48.0	126
30.0	5.2	1150	19050	636	41.9	260
23.0	5.1	1135	19220	1088	32.2	342
19.0	4.8	1104	19644	1389	24.7	336
16.0	4.5	1041	20321	1618	18.9	299
13.0	4.2	966	21097	1827	13.3	237
10.0	3.8	889	22200	2046	8.4	166
6.5	3.4	805	23492	2285	3.9	87
0.0	3.2	743	24440	2619	0.0	0

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

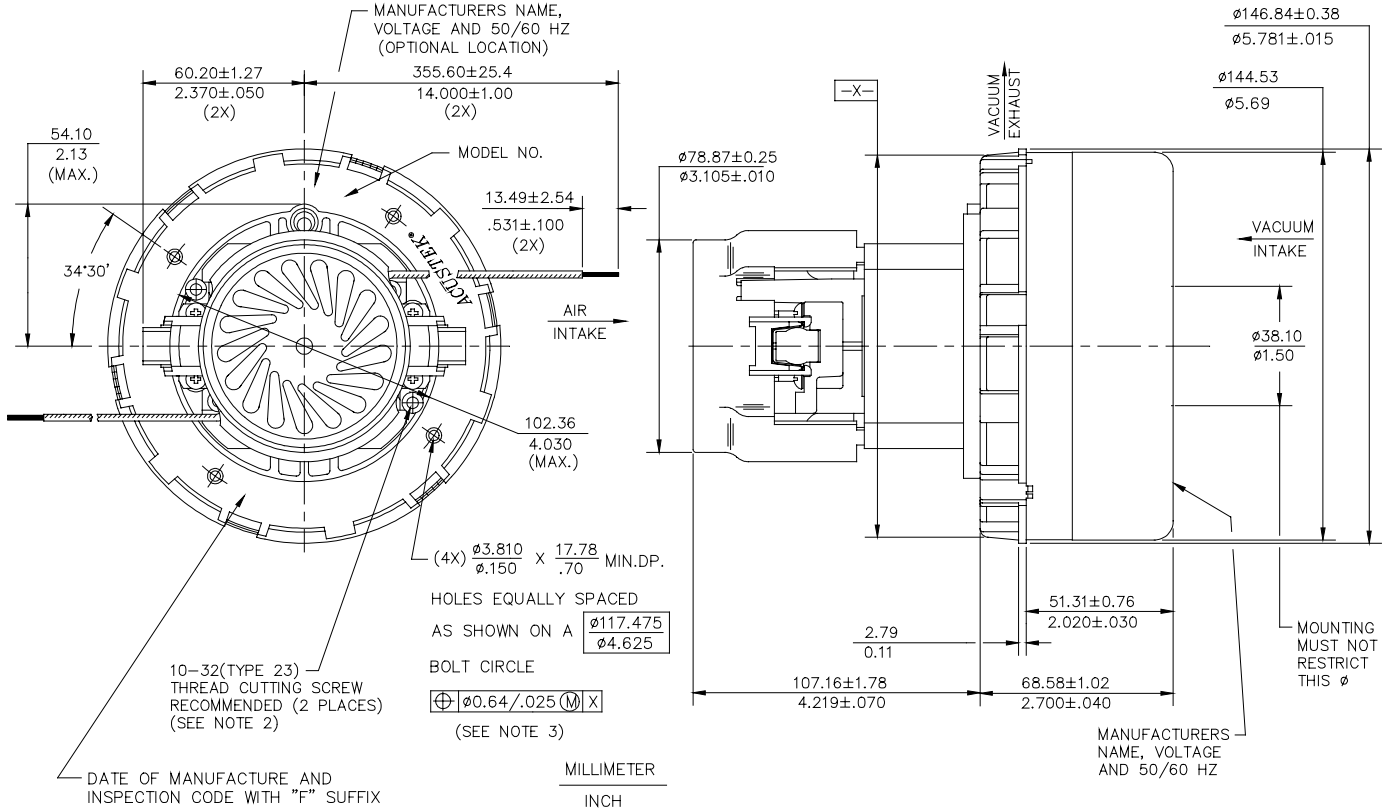
* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary due to normal manufacturing variations.

Test Specs:	240 volts	Minimum Sealed Vacuum:	90.0"	ORIFICE:	13mm	Minimum Vacuum:	66.0"	Maximum Watts:	1250
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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. RECOMMENDED SCREW SIZE 10-16 TYPE BT OR 25 THREAD CUTTING SCREW. MAXIMUM PENETRATION 17.40/.685.



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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