AMETEK

Product Bulletin

LAMB ELECTRIC

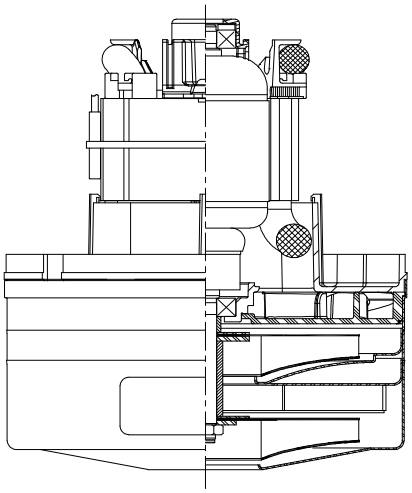
Model: 119997-41

AIR WATT™ SERIES

Advantek II - Ultra

DESCRIPTION

- Two stage
- 120 volts
- 5.7"/145 mm diameter
- Double ball bearings
- Single speed
- Thru-flow discharge
- Thermoset fan end bracket
- Stamped steel end bracket



SPECIAL FEATURES

- Patented Advantek II diffusion
- 3" Commercial Lamination
- Dual Tapered fan system
- Provision for grounding
- Top end mounting boss
- Thermal Device
- UL recognized, category PRGY2 (E47185)
- Suitable for 120 volt AC operation, 50 or 60 Hz
- The Lamb vacuum motor line offers a wide range of performance levels to meet design needs

DESIGN APPLICATION

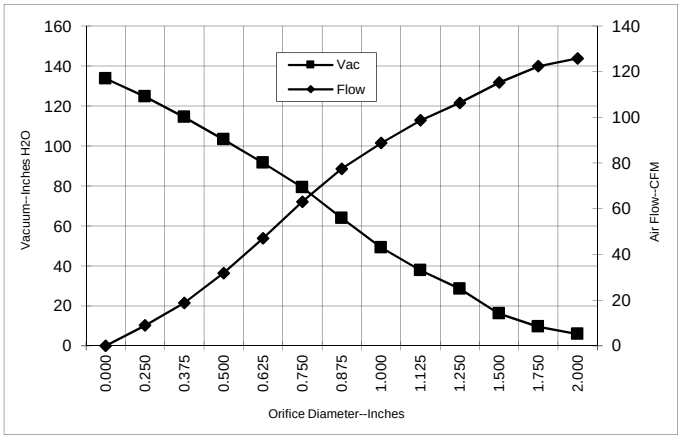
- Equipment operating in environments not requiring separation of working air from motor ventilating air
- Designed to handle clean, dry, filtered air only

PEAK AIRWATTS
587
Calculated in accordance with ASTM F2105

TYPICAL MOTOR PERFORMANCE.*

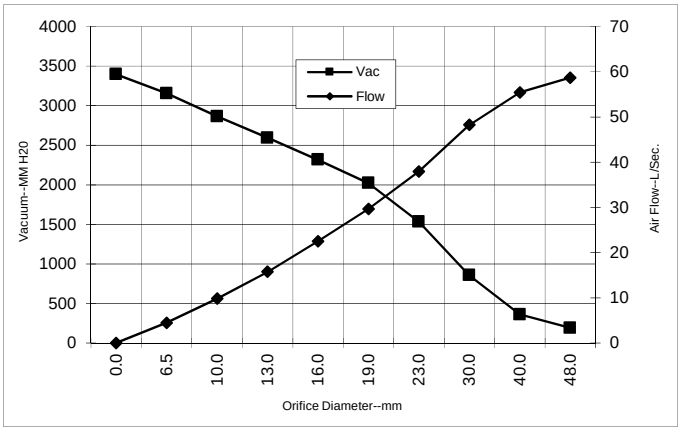
(At 120 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM DATA



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H2O)	Flow (CFM)	Air Watts
2.000	14.2	1525	24838	5.9	125.8	88
1.750	13.9	1493	24838	9.6	122.4	138
1.500	13.9	1488	24468	16.2	115.3	220
1.250	14.1	1516	24458	28.5	106.3	357
1.125	13.8	1473	24829	37.8	98.7	438
1.000	13.6	1451	24829	49.2	88.7	513
0.875	13.2	1416	25200	63.9	77.5	583
0.750	12.8	1374	25950	79.3	63.1	587
0.625	11.6	1255	26701	91.6	47.0	506
0.500	10.6	1146	27813	103.2	31.8	386
0.375	9.5	1032	29694	114.4	18.8	253
0.250	8.6	928	31195	124.7	8.9	130
0.000	8.5	844	32697	133.6	0.0	0

METRIC DATA



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (L/Sec)	Air Watts
48.0	14.1	1511	24838	190	58.7	110
40.0	13.9	1489	24579	360	55.4	195
30.0	13.9	1492	24662	855	48.2	402
23.0	13.3	1424	25107	1530	37.9	565
19.0	12.8	1372	25965	2020	29.6	585
16.0	11.7	1260	26671	2315	22.5	509
13.0	10.7	1157	27701	2592	15.7	398
10.0	9.7	1049	29412	2863	9.8	273
6.5	8.7	933	31120	3154	4.4	137
0.0	8.5	844	32697	3394	0.0	0

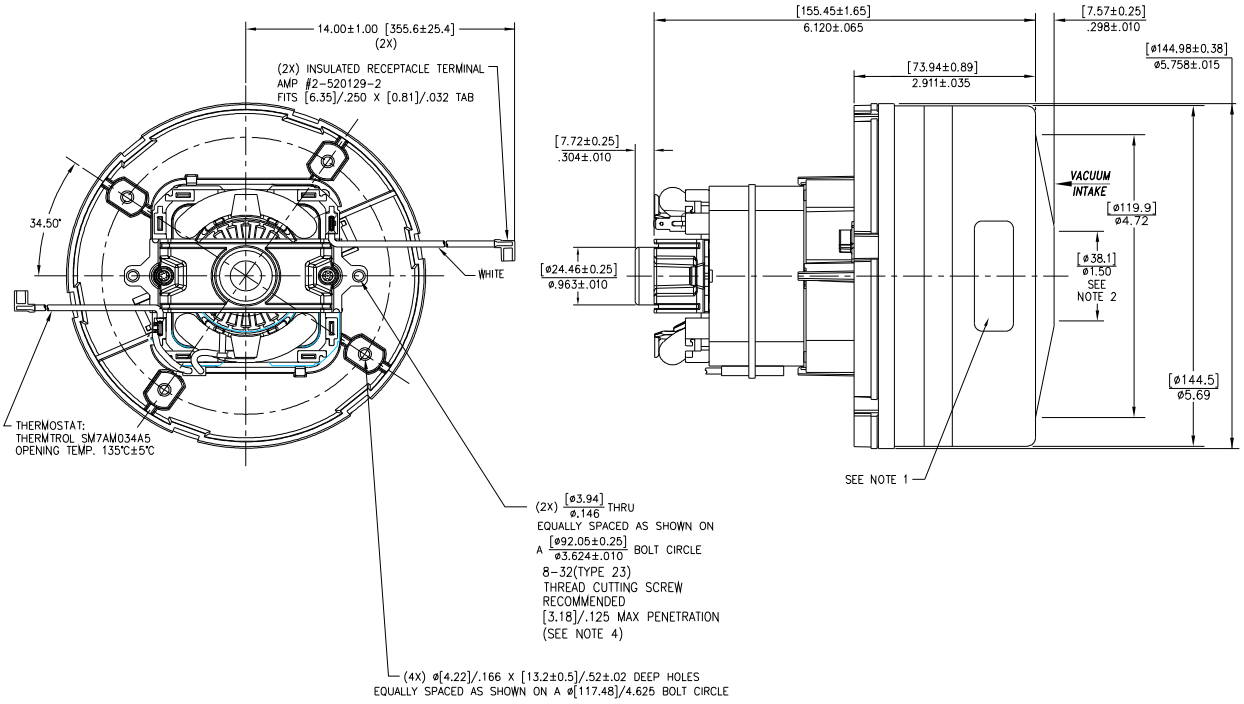
Note: Metric Performance data is calculated from the ASTM data above.

* 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: 127"**		**ORIFICE:**	7/8 "	**Minimum Vacuum: 61"**	**Maximum Watts:** 1630

DIMENSIONS

NOTES:
1. MODEL NUMBER, DATE OF MANUFACTURE, PLANT LOCATION CODE, AGENCY RECOGNITION CODE, INSPECTOR'S CODE, MANUFACTURER'S NAME, "US PATENT: US 6,703,754 B1", VOLTAGE AND FREQUENCY, AND CUSTOMER'S PART NO. TO APPEAR ON MOTOR.
2. MOUNTING MUST NOT RESTRICT THIS DIAMETER.
3. LEADS: 18GA STRANDED.
4. 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.



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IMPORTANT NOTE: *Pictorial and dimensional data are subject to change without notice. Contact factory for current revision levels.*

WARNING - AMETEK Lamb Electric thru-flow vacuum motors must never be used in applications in which wet or moist conditions are involved, where dry chemicals or other volatile materials are present, or where airflow may be restricted or blocked. Such motors are designed to permit the vacuumed air to pass over the electrical winding to cool it. Thus any foam, liquid (including water), dry chemical, or other foreign substance coming in contact with electrical conductors could cause combustion (depending on volatility) or electrical shock. Failure to observe these precautions could result in property damage and severe personal injury, including death in extreme cases. All applications incorporating Lamb Electric motors should be submitted to Underwriters Laboratories Inc. or other appropriate organizations or agencies for testing specifically related to the safety of your equipment.

AMETEK/Floorcare & Specialty Motors
www.ametekfsm.com

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