AMETEK

# LAMB ELECTRIC

# Product Bulletin

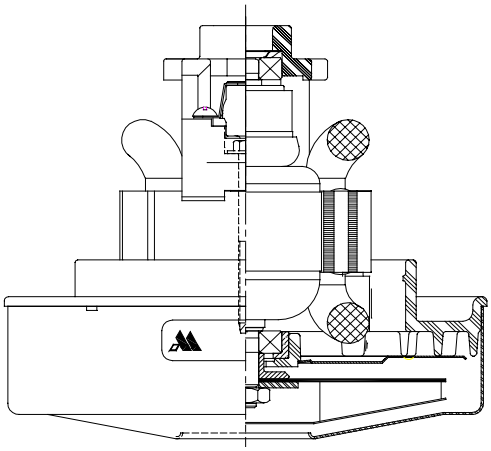
**Model: 117831-00**

## DESCRIPTION

- stage One
- volts 230
- mm diameter 130
- bearings Double Ball Bearing
- speed One
- discharge Thru-Flow
- fan end bracket Plastic
- commutator bracket Plastic

## DESIGN APPLICATION

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



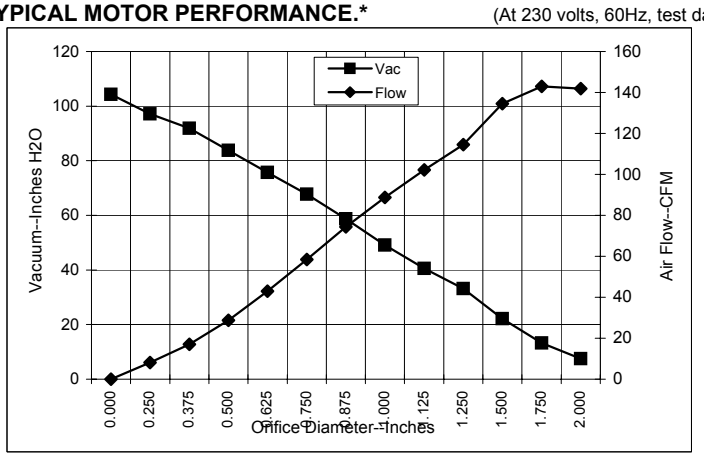
## SPECIAL FEATURES

- Suitable for 230 volt AC operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- Skeleton frame design
- Tapered fan system
- High air flow fan system
- Anti-gyro fans
- Lead terminals
- The Lamb vacuum motor line offers a wide range of performance levels to meet design needs

## TYPICAL MOTOR PERFORMANCE.*

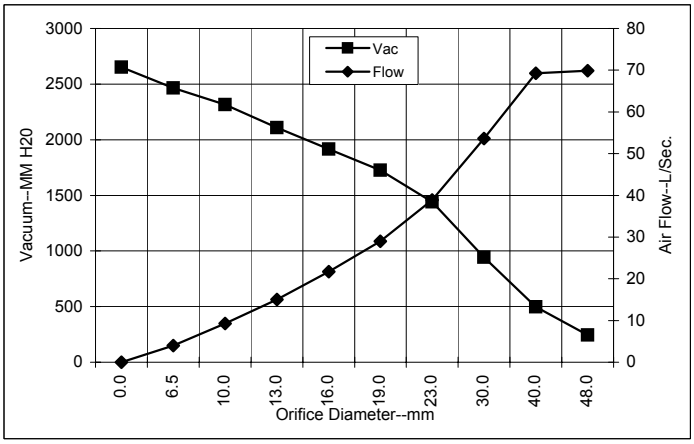
(At 230 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM DATA




| Orifice (Inches) | Amps | Watts (In) | RPM | Vac (In.H2O) | Flow (CFM) | Air Watts |
|---|---|---|---|---|---|---|
| 2.000 | 6.5 | 1437 | 27625 | 7.5 | 141.8 | 125 |
| 1.750 | 6.6 | 1457 | 27522 | 13.2 | 142.9 | 222 |
| 1.500 | 6.6 | 1468 | 27474 | 22.1 | 134.5 | 350 |
| 1.250 | 6.6 | 1457 | 27557 | 33.2 | 114.6 | 448 |
| 1.125 | 6.5 | 1435 | 27789 | 40.5 | 102.2 | 486 |
| 1.000 | 6.3 | 1394 | 28256 | 49.1 | 88.8 | 512 |
| 0.875 | 6.1 | 1345 | 28813 | 58.7 | 74.4 | 513 |
| 0.750 | 5.7 | 1273 | 29646 | 67.7 | 58.5 | 465 |
| 0.625 | 5.3 | 1182 | 30893 | 75.7 | 42.9 | 381 |
| 0.500 | 4.8 | 1077 | 32518 | 83.8 | 28.8 | 283 |
| 0.375 | 4.3 | 973 | 34271 | 91.9 | 17.0 | 183 |
| 0.250 | 4.0 | 892 | 35843 | 97.1 | 8.1 | 92 |
| 0.000 | 3.7 | 846 | 36950 | 104.3 | | |

METRIC DATA




| Orifice (mm) | Amps | Watts (In) | RPM | Vac (mm H2O) | Flow (L/Sec) | Air Watts |
|---|---|---|---|---|---|---|
| 48.0 | 6.5 | 1446 | 27580 | 245 | 69.9 | 168 |
| 40.0 | 6.7 | 1471 | 27450 | 499 | 69.3 | 340 |
| 30.0 | 6.6 | 1454 | 27580 | 944 | 53.6 | 497 |
| 23.0 | 6.2 | 1363 | 28605 | 1442 | 38.9 | 552 |
| 19.0 | 5.7 | 1272 | 29660 | 1725 | 29.0 | 493 |
| 16.0 | 5.3 | 1186 | 20830 | 1916 | 21.7 | 409 |
| 13.0 | 4.9 | 1087 | 32350 | 2108 | 15.0 | 312 |
| 10.0 | 4.4 | 986 | 34025 | 2314 | 9.3 | 212 |
| 6.5 | 4.0 | 893 | 35805 | 2464 | 4.0 | 98 |
| 0.0 | 3.7 | 836 | 37240 | 2653 | 0.0 | 0 |

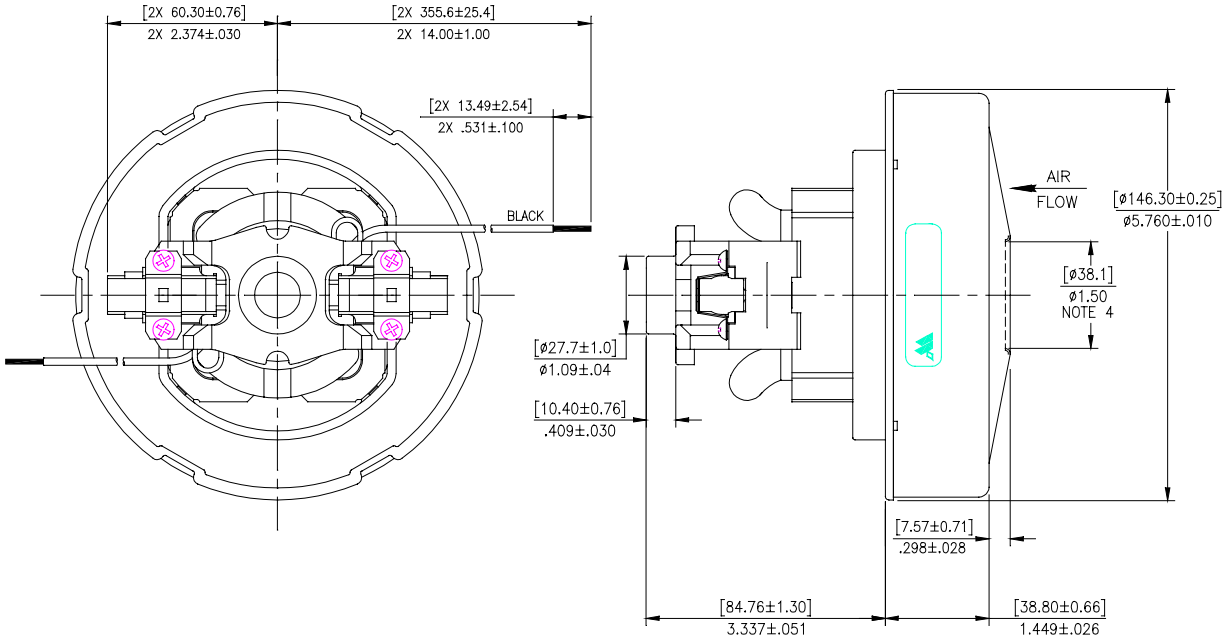
Note: Metric performance data is calculated from the ASTM data above.

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Test Specs:** | 230 Volts | **Minimum Sealed Vacuum:** | 95.0 | **ORIFICE:** | 7/8 | **Minimum Vacuum:** | 53.0 | **Maximum Watts:** | 1275 |

## DIMENSIONS

NOTES:
1. LEADS: 18GA STRANDED.
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: MODEL NUMBER, DATE OF MANUFACTURE, UL & CSA RECOGNITION CODE, INSPECTOR'S CODE, MANUFACTURER'S NAME, MADE IN U.S.A., VOLTAGE, FREQUENCY TO APPEAR ON ASSEMBLY.
4. MOUNTING MUST NOT RESTRICT THIS DIAMETER.




**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 will come in contact with electrical conductors which 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 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/Lamb Electric Division**
**627 Lake Street**
**Kent, Ohio 44240**
**U.S.A.**
**Tel: (330) 673-3451**
**Fax: (330) 673-8994**

**Ametek GmbH**
**P. O. Box 1251**
**D-71667 Marbach**
**Germany**
**Phone: + 49-714-484-9512**
**Fax: + 49-714-484-9513**

**AMETEK/Singapore Private Limited**
**10 Ang Mo Kio Street 65**
**# 05-12 Techpoint**
**Singapore 2056**
**Tel: + 65-484-2388**
**Fax: + 65-481-6588**

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