



# AMETEK

## LAMB ELECTRIC

## Product Bulletin

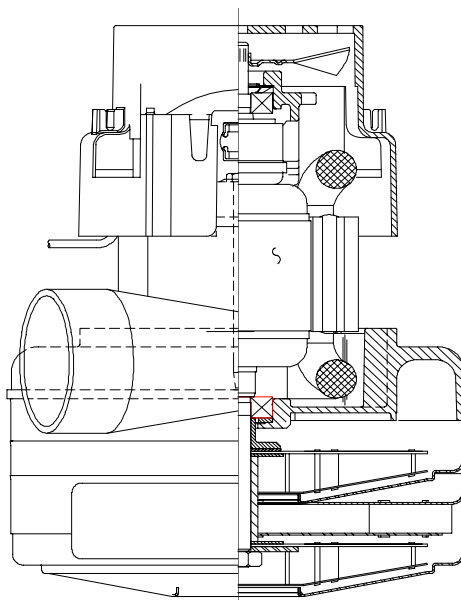
Model: 119914-07

### DESCRIPTION

- Double stage
- 120 volts
- 5.7" / 145 mm diameter
- Dual ball bearings
- Single speed
- Tangential bypass discharge
- Plastic fan end bracket
- Plastic 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



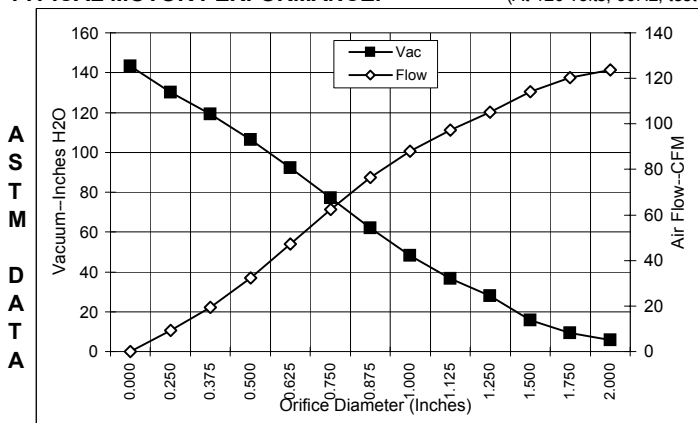
### SPECIAL FEATURES

- Suitable for 120 volt AC operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- Provision for grounding
- Skeleton frame design
- Dual Tapered fan system
- The Lamb vacuum motor line offers a wide range of performance levels to meet design needs

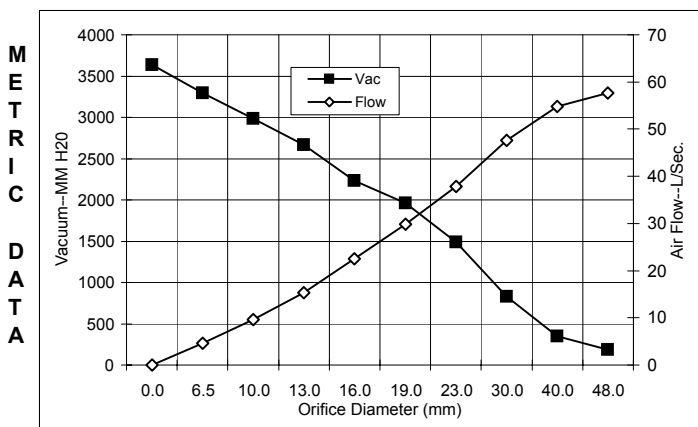
**AIR WATT™**  
SERIES

### TYPICAL MOTOR PERFORMANCE.\*

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



| Orifice (Inches) | Amps | Watts (In) | RPM   | Vac (In.H2O) | Flow (CFM) | Air Watts |
|------------------|------|------------|-------|--------------|------------|-----------|
| 2.000            | 15.5 | 1790       | 24495 | 5.7          | 123.7      | 82        |
| 1.750            | 15.5 | 1793       | 24495 | 9.2          | 120.2      | 131       |
| 1.500            | 15.4 | 1792       | 24450 | 15.8         | 114.2      | 212       |
| 1.250            | 15.5 | 1795       | 24425 | 27.8         | 105.2      | 344       |
| 1.125            | 15.4 | 1784       | 24520 | 36.6         | 97.4       | 419       |
| 1.000            | 15.2 | 1760       | 24790 | 48.1         | 87.9       | 498       |
| 0.875            | 14.9 | 1719       | 25095 | 62.0         | 76.4       | 557       |
| 0.750            | 14.3 | 1657       | 25625 | 77.1         | 62.4       | 566       |
| 0.625            | 13.5 | 1565       | 26275 | 92.1         | 47.2       | 512       |
| 0.500            | 12.3 | 1436       | 27455 | 106.3        | 32.4       | 405       |
| 0.375            | 11.1 | 1297       | 28860 | 119.3        | 19.3       | 270       |
| 0.250            | 10.0 | 1168       | 30495 | 130.1        | 9.2        | 141       |
| 0.000            | 9.1  | 1067       | 31765 | 143.3        | 0.0        | 0         |



| Orifice (mm) | Amps | Watts (In) | RPM   | Vac (mm H2O) | Flow (L/Sec) | Air Watts |
|--------------|------|------------|-------|--------------|--------------|-----------|
| 48.0         | 15.5 | 1791       | 24495 | 184          | 57.7         | 104       |
| 40.0         | 15.5 | 1792       | 24464 | 352          | 54.8         | 188       |
| 30.0         | 15.5 | 1788       | 24477 | 829          | 47.6         | 385       |
| 23.0         | 15.0 | 1729       | 25019 | 1486         | 37.8         | 515       |
| 19.0         | 14.3 | 1655       | 25638 | 1965         | 29.8         | 528       |
| 16.0         | 13.5 | 1569       | 26249 | 2230         | 22.5         | 470       |
| 13.0         | 12.4 | 1449       | 27337 | 2665         | 15.3         | 416       |
| 10.0         | 11.3 | 1318       | 28649 | 2981         | 9.6          | 291       |
| 6.5          | 10.0 | 1174       | 30413 | 3292         | 4.6          | 148       |
| 0.0          | 9.1  | 1067       | 31765 | 3639         | 0.0          | 0         |

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

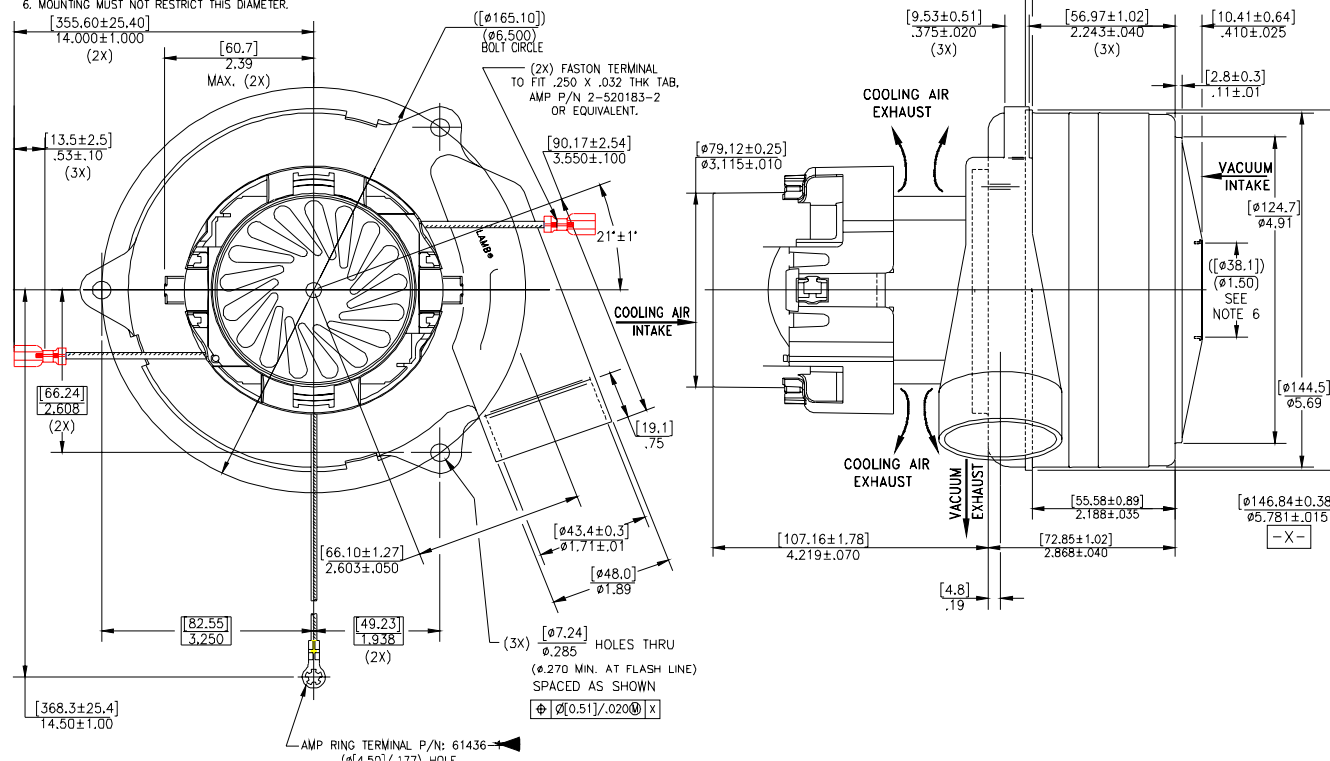
\* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary to normal manufacturing variations.

|             |          |                           |       |               |                 |      |                |      |
|-------------|----------|---------------------------|-------|---------------|-----------------|------|----------------|------|
| Test Specs: | 120 volt | Minimum Sealed Vacuum: 76 | 134.0 | ORIFICE: 7/8" | Minimum Vacuum: | 58.0 | Maximum Watts: | 1770 |
|-------------|----------|---------------------------|-------|---------------|-----------------|------|----------------|------|

## DIMENSIONS

NOTES:

1. POWER LEADS: 18GA STRANDED LEADS CAN BE ANY COLOR EXCEPT GREEN OR GREEN WITH YELLOW STRIPE. GROUND LEAD: 18GA STRANDED, GREEN OR GREEN WITH YELLOW STRIPE.
2. MOTOR IDENTIFICATION: MANUFACTURER'S NAME, MODEL NUMBER, VOLTAGE, FREQUENCY, INSPECTORS CODE WITH "FF" SUFFIX, DATE OF MANUFACTURE, AGENCY RECOGNITION CODE, PLANT LOCATION CODE, PATENT INFORMATION "ONE OR MORE OF THE FOLLOWING PATENTS APPLY TO THIS MOTOR: 5485278; 5736805; 4669952; 4684835; 6561772". AND COUNTRY OF ORIGIN.
3. ALLOW 1/8" DIA. M/T 2.5 IN. MIN. FOR COOLING AIR INTAKE.
4. COOLING AIR INTAKE MUST BE SEPARATED FROM COOLING AIR EXHAUST.
5. VACUUM EXHAUST MUST BE SEPARATED FROM COOLING EXHAUST.
6. 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 -**

**WARNING** - When using AMETEK/Lamb Electric bypass motors in machines that come in contact with foam, liquid (including water) of 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 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 motors should be submitted to appropriate organizations or agencies for testing specifically related to the safety of your equipment.

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