



AIR WATT™
S E R I E S

SPECIAL FEATURES

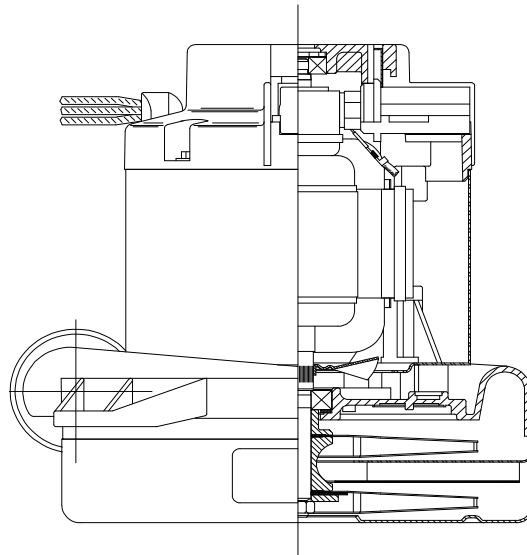
- 570+ Peak Air Watts
- High Efficiency Lamination
- 10 mm shaft and bearing system
- Self Cleaning Fan System
- Epoxy painted fan case
- Aluminum brackets to dampen vibration & improve durability
- Suitable for 230 volt AC operation, 60 Hz
- UL recognized, category PRGY2 (E47185)
- RFI field chokes.
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs
- 122034-07 includes connector

DESCRIPTION

- Two stage
- 230 volts
- 3.5" High Efficiency Lamination
- 7.2"/183 mm diameter
- Double ball bearings
- Self Cleaning Fan System
- Tangential bypass discharge
- Aluminum 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

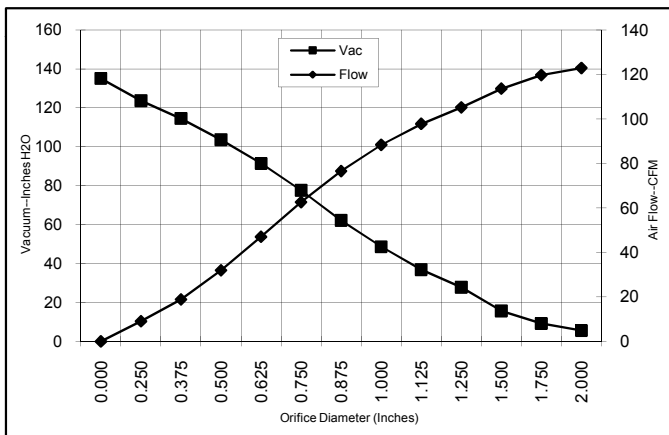


PEAK AIRWATTS
572
Calculated in accordance with ASTM F2105

TYPICAL MOTOR PERFORMANCE.*

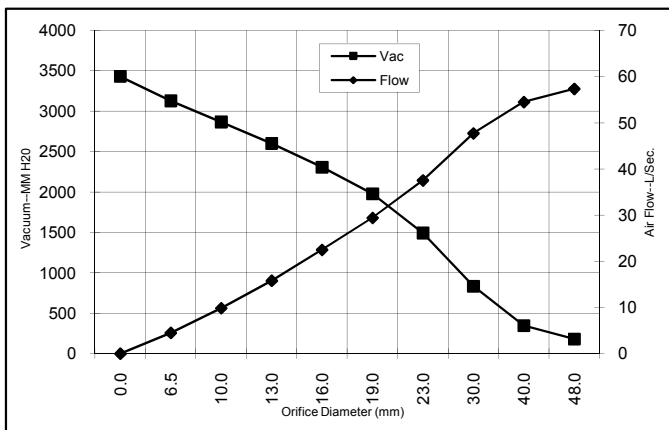
(At 230 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM DATA



| Orifice (Inches) | Amps | Watts (In) | RPM | Vac (In.H2O) | Flow (CFM) | Air Watts |
|------------------|------|------------|-------|--------------|------------|-----------|
| 2.000 | 8.0 | 1721 | 21025 | 5.6 | 122.9 | 81 |
| 1.750 | 8.0 | 1722 | 20975 | 9.1 | 119.7 | 129 |
| 1.500 | 8.0 | 1724 | 20960 | 15.7 | 113.6 | 209 |
| 1.250 | 8.0 | 1724 | 20930 | 27.8 | 105.2 | 345 |
| 1.125 | 8.0 | 1723 | 20945 | 36.9 | 97.8 | 424 |
| 1.000 | 7.9 | 1714 | 21005 | 48.6 | 88.4 | 505 |
| 0.875 | 7.8 | 1682 | 21125 | 62.2 | 76.6 | 560 |
| 0.750 | 7.5 | 1627 | 21455 | 77.6 | 62.6 | 572 |
| 0.625 | 7.0 | 1524 | 22175 | 91.4 | 47.0 | 505 |
| 0.500 | 6.4 | 1391 | 23080 | 103.6 | 32.0 | 390 |
| 0.375 | 5.7 | 1246 | 24215 | 114.5 | 18.9 | 254 |
| 0.250 | 5.0 | 1112 | 25500 | 123.6 | 9.0 | 131 |
| 0.000 | 4.6 | 1024 | 26560 | 135.0 | 0.0 | 0 |

METRIC DATA



| Orifice (mm) | Amps | Watts (In) | RPM | Vac (mm H2O) | Flow (L/Sec) | Air Watts |
|--------------|------|------------|-------|--------------|--------------|-----------|
| 48.0 | 8.0 | 1721 | 21003 | 182 | 57.3 | 102 |
| 40.0 | 8.0 | 1723 | 20965 | 348 | 54.5 | 185 |
| 30.0 | 8.0 | 1723 | 20938 | 833 | 47.7 | 388 |
| 23.0 | 7.8 | 1690 | 21095 | 1493 | 37.5 | 546 |
| 19.0 | 7.5 | 1624 | 21469 | 1978 | 29.4 | 570 |
| 16.0 | 7.0 | 1528 | 22146 | 2306 | 22.5 | 508 |
| 13.0 | 6.4 | 1404 | 22990 | 2599 | 15.8 | 401 |
| 10.0 | 5.8 | 1267 | 24045 | 2866 | 9.8 | 275 |
| 6.5 | 5.1 | 1118 | 25436 | 3128 | 4.5 | 137 |
| 0.0 | 4.6 | 1024 | 26560 | 3429 | 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.

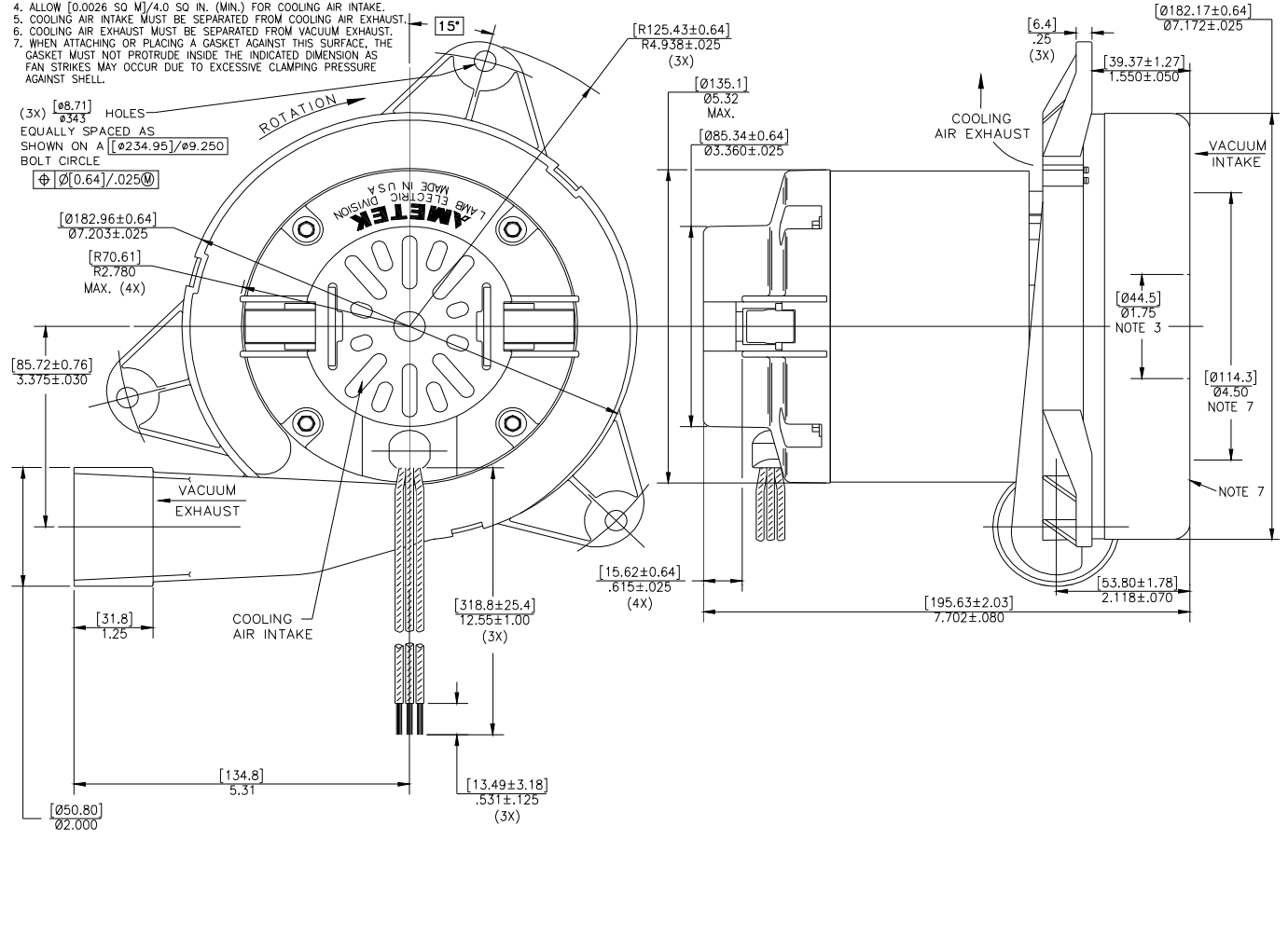
| | | | | | | | | | |
|--------------------|------------------|-------------------------------|--------------|-----------------|-------------|------------------------|-------------|-----------------------|-------------|
| Test Specs: | 230 volts | Minimum Sealed Vacuum: | 125.0 | ORIFICE: | 7/8" | Minimum Vacuum: | 61.0 | Maximum Watts: | 1825 |
|--------------------|------------------|-------------------------------|--------------|-----------------|-------------|------------------------|-------------|-----------------------|-------------|

DIMENSIONS



NOTES:

1. LEADS: 16GA. STRANDED, ONE BLACK AND ONE WHITE, GROUND LEAD: 18GA. STRANDED, GREEN WITH YELLOW STRIPE.
2. MOTOR IDENTIFICATION: MANUFACTURER'S NAME, MODEL NUMBER, VOLTAGE, FREQUENCY, INSPECTOR'S CODE WITH "FF" SUFFIX, DATE OF MANUFACTURE, AGENCY RECOGNITION CODE, PLANT LOCATION CODE, PATENTS: "4698534; 4621991; PATENT PENDING" AND COUNTRY OF ORIGIN.
3. MOUNTING MUST NOT RESTRICT THIS DIAMETER.
4. ALLOW [0.0028 SQ. IN.] / 4.0 SQ. IN. (MIN.) FOR COOLING AIR INTAKE.
5. COOLING AIR INTAKE MUST BE SEPARATED FROM COOLING AIR EXHAUST.
6. COOLING AIR EXHAUST MUST BE SEPARATED FROM VACUUM EXHAUST.
7. WHEN ATTACHING OR PLACING A GASKET AGAINST THIS SURFACE, THE GASKET MUST NOT PROTRUDE INSIDE THE INDICATED DIMENSION AS FAN STRIKES MAY OCCUR DUE TO EXCESSIVE CLAMPING PRESSURE AGAINST SHELL.



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/Floorcare & Specialty Motors
www.ametekfsm.com