

**Lamb**<sup>®</sup>  
5.1" Thru-Flow Comm Up Vacuum Motors

**Model: 119539-00**

**MECHANICAL**

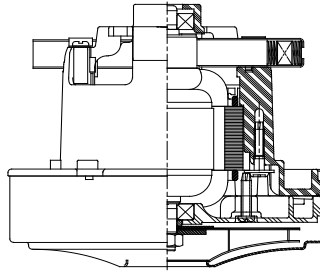
**DIAMETER:** 5.1" (130 mm)  
**DISCHARGE TYPE:** Thru-flow  
**DISCHARGE:** Thru-flow

**PERFORMANCE**

**STAGES:** 1  
**SPEED:** Single

**DESIGN APPLICATIONS**

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



**ELECTRICAL**

**OPERATING INPUT VOLTAGE:** 120 volts AC

**FEATURES**

- Thermoset Cup frame design
- Tapered fan system
- High airflow fan system
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs
- 119539-10 has brushes suitable for 400 Hz operation

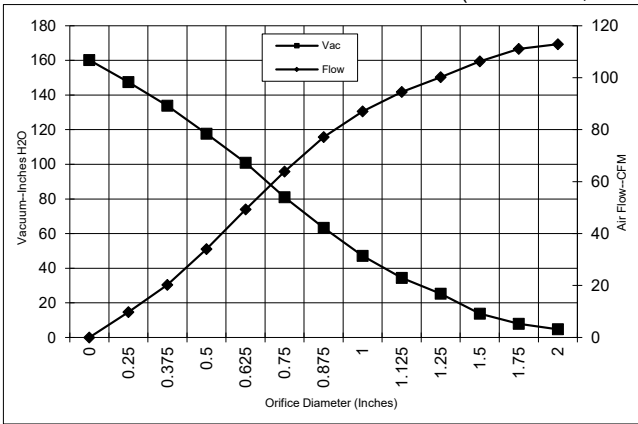
**REGULATORY CERTIFICATIONS**

RU recognized, category PRGY2 (E47185).

**TYPICAL MOTOR PERFORMANCE.\***

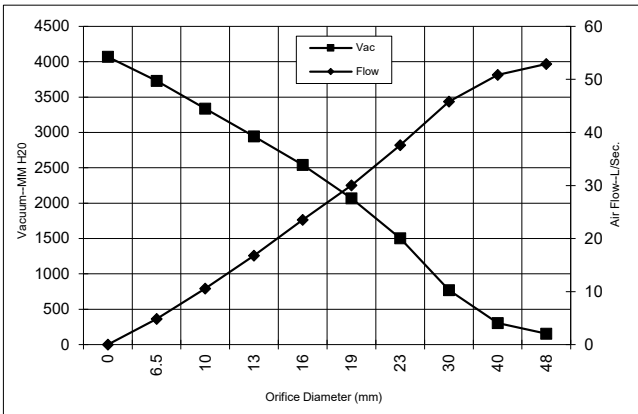
(At 120 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

**ASTM DATA**



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H2O)	Flow (CFM)	Air Watts
2.000	10.6	1237	32033	5.6	123.3	82
1.750	10.7	1238	32005	9.3	120.7	133
1.500	10.6	1237	31988	15.4	113.2	206
1.250	10.7	1249	32087	26.7	102.7	322
1.125	10.7	1244	32108	34.9	94.9	390
1.000	10.6	1236	32332	45.0	85.0	317
0.875	10.4	1211	32688	56.5	72.9	484
0.750	10.0	1165	33387	68.7	59.0	477
0.625	9.3	1088	34335	80.2	44.2	417
0.500	8.6	1011	35737	89.9	30.0	317
0.375	7.7	908	37493	98.5	17.7	205
0.250	7.0	829	39070	105.8	8.2	102
0.000	6.5	764	40863	110.3	0.0	0

**METRIC DATA**



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (L/Sec)	Air Watts
48.0	10.6	1237	32021	184	57.7	104
40.0	10.6	1237	31993	346	54.5	184
30.0	10.7	1246	32099	792	46.5	359
23.0	10.4	1217	32599	1362	35.8	442
19.0	10.0	1164	33406	1752	27.7	476
16.0	9.4	1091	34297	2025	21.2	420
13.0	8.7	1019	35597	2259	14.8	327
10.0	7.9	924	37230	2469	9.2	222
6.5	7.1	833	38991	2679	4.1	107
0.0	6.5	764	40863	2801	0.0	0

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

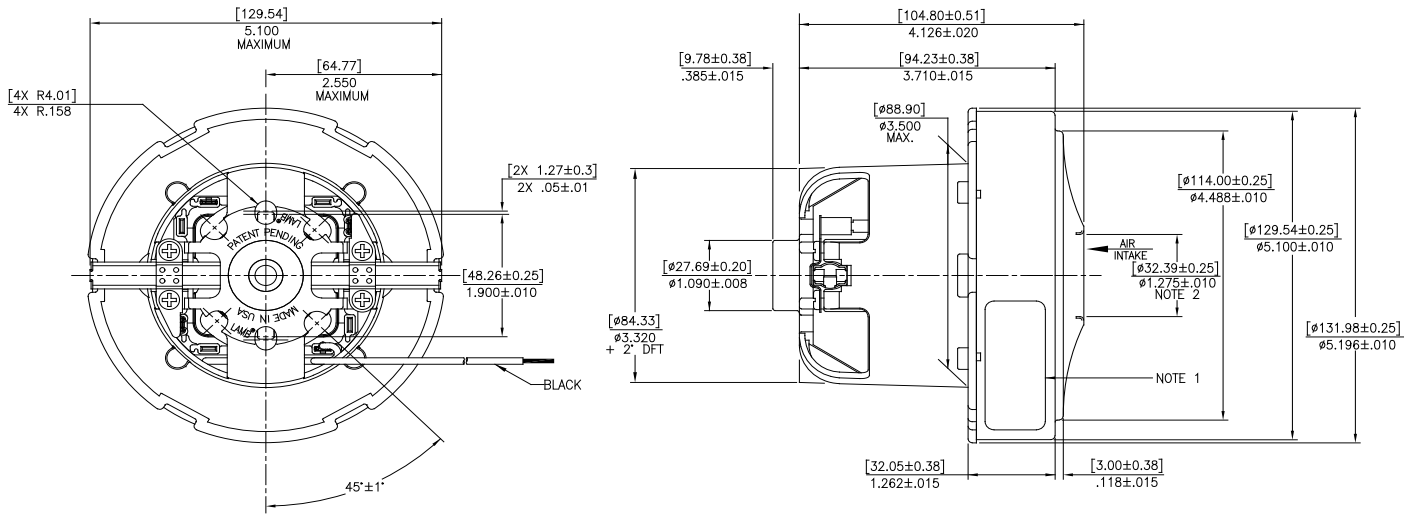
\* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary due to normal manufacturing variations.

<b>Test Specs:</b>	120-Volts	<b>Minimum Sealed Vacuum:</b>	100.0	<b>ORIFICE:</b>	7/8"	<b>Min. Vacuum:</b>	52.0	<b>Maximum Watts:</b>	1320
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Lamb<sup>®</sup> | Nautilair<sup>®</sup> | Prestolite Motors | ROTRON<sup>®</sup> | Windjammer<sup>®</sup>

NOTES:

1. MANUFACTURER'S NAME, MODEL NUMBER, CUSTOMER PART NUMBER, VOLTAGE, FREQUENCY, INSPECTOR'S CODE, DATE OF MANUFACTURE, AGENCY RECOGNITION CODE AND PLANT LOCATION CODE TO APPEAR ASSEMBLY, LOCATION IS OPTIONAL.
2. 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** - 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 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 AMETEK Lamb motors should be submitted to appropriate organizations or agencies for testing specifically related to the safety of your equipment.

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