



**AMETEK**

**LAMB ELECTRIC**



Generation 2000 Vacuum Motors

**Product Bulletin**

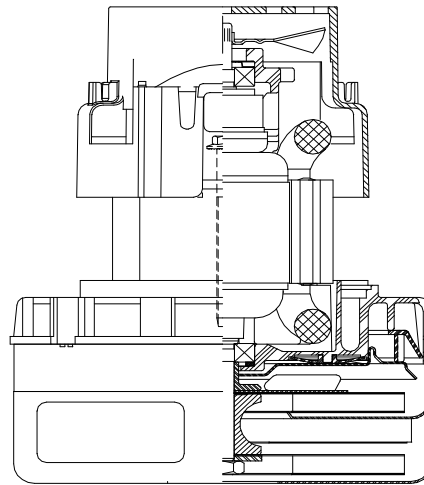
**Model: 119439-13  
119439-29**

**SPECIAL FEATURES**

- Suitable for 36 volt DC operation
- UL recognized, category PRGY2 (E47185)
- Provision for grounding
- Epoxy painted fan case
- Patented air seal bearing construction. U.S. Patent #4,088,424
- ACUSTEK® low-noise design, U.S. Patent #1,417,200
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs.

**Model 119439-13 is the G2K replacement for model 116597-13**

**Model 119439-29 features inlet tube 1.5" diameter x 1.0" long**



**DESCRIPTION**

- Two stage
- 36 volts
- 5.7"/145 mm diameter
- Double ball bearings
- Single speed
- ACUSTEK® low-noise peripheral bypass discharge
- Thermoset fan end bracket
- Thermoset commutator bracket

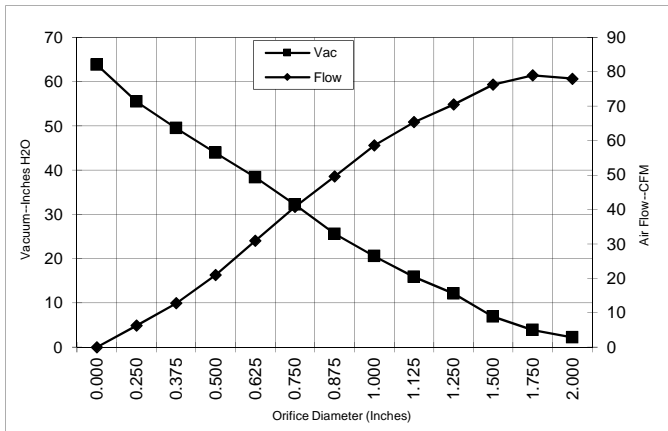
**DESIGN APPLICATION**

- Equipment operating in environments requiring separation of working air from motor ventilating air
- Designed to handle clean, dry, filtered air only

**TYPICAL MOTOR PERFORMANCE.\***

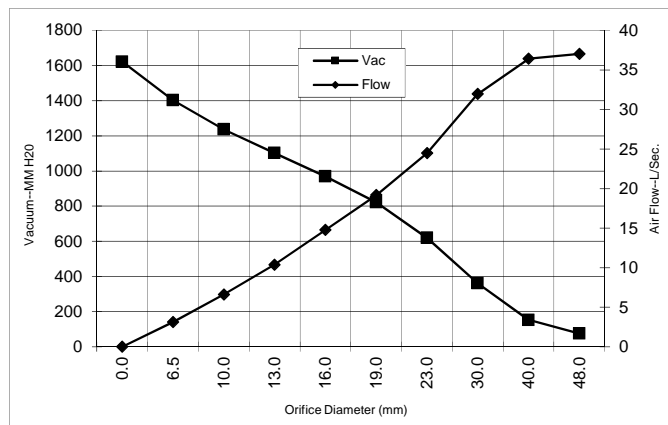
(At 36 volts DC, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

**ASTM DATA**



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H2O)	Flow (CFM)	Air Watts
2.000	16.3	585	14790	2.2	78.0	20
1.750	16.3	585	14750	3.9	79.0	36
1.500	16.4	591	14710	6.9	76.3	62
1.250	16.4	589	13750	12.1	70.5	100
1.125	16.2	583	14590	15.9	65.4	122
1.000	16.9	572	14640	20.6	58.6	142
0.875	15.7	565	14850	25.6	49.6	149
0.750	15.6	561	15280	32.2	40.8	154
0.625	15.0	541	15760	38.4	30.9	139
0.500	14.0	504	16330	43.9	21.0	108
0.375	13.2	473	17110	49.5	12.8	74
0.250	12.4	444	17950	55.5	6.3	41
0.000	11.5	412	18700	63.8	0.0	0

**METRIC DATA**



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (L/Sec)	Air Watts
48.0	16.3	585	14772	75	37.0	27
40.0	16.4	589	14722	152	36.4	54
30.0	16.3	586	14212	360	32.0	112
23.0	16.0	567	14798	618	24.5	147
19.0	15.6	561	15290	821	19.2	154
16.0	15.0	542	15741	969	14.8	140
13.0	14.1	508	16273	1101	10.4	111
10.0	13.3	478	16993	1236	6.6	79
6.5	12.4	445	17908	1402	3.1	43
0.0	11.5	412	18700	1621	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.

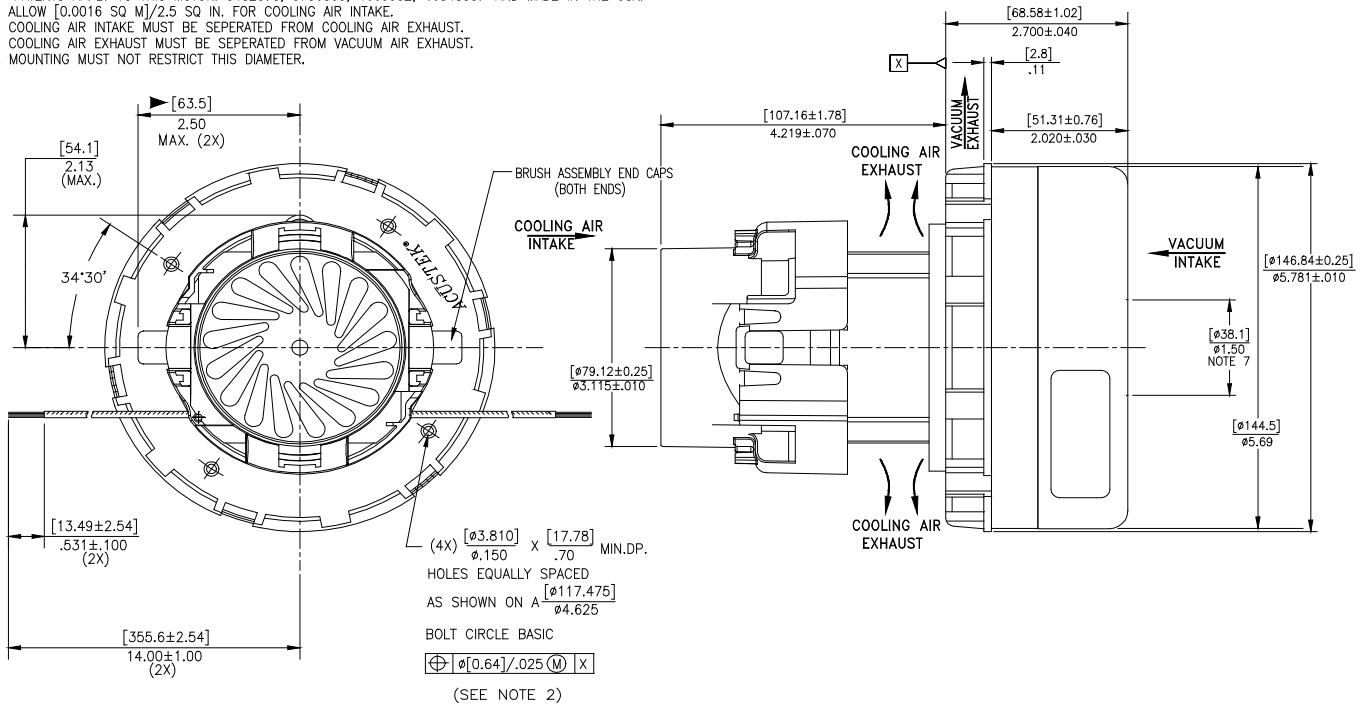
<b>Test Specs:</b>	36 volts	<b>Minimum Sealed Vacuum:</b>	59.5"	<b>ORIFICE:</b>	7/8 "	<b>Minimum Vacuum:</b>	24.0"	<b>Maximum Watts:</b>	646
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DIMENSIONS



NOTES:

1. LEADS: 14 GA. STRANDED, LEADS CAN BE ANY COLOR EXCEPT GREEN OR GREEN WITH YELLOW STRIPE.
2. RECOMMENDED SCREW SIZE 10-16 TYPE BT OR TYPE 25 THREAD CUTTING SCREW. MAXIMUM PENETRATION [17.40]/.685.
3. MOTOR IDENTIFICATION: MANUFACTURER'S NAME, MODEL NUMBER, VOLTAGE, FREQUENCY, INSPECTOR'S CODE, DATE OF MANUFACTURE, AGENCY RECOGNITION CODE, PLANT LOCATION CODE, PATENT INFORMATION " ONE OR MORE OF THE FOLLOWING PATENTS APPLY TO THIS MOTOR: 5482378; 5736805; 4669952; 4684835." AND MADE IN THE USA.
4. ALLOW [0.0016 SQ M]/2.5 SQ IN. FOR COOLING AIR INTAKE.
5. COOLING AIR INTAKE MUST BE SEPERATED FROM COOLING AIR EXHAUST.
6. COOLING AIR EXHAUST MUST BE SEPERATED FROM VACUUM AIR EXHAUST.
7. 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 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](http://www.ametekfsm.com)