



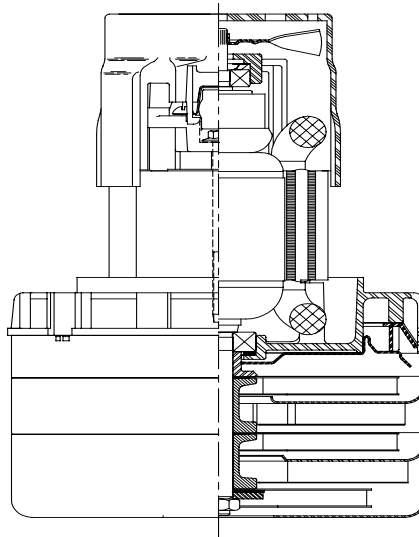
**Model: 117944-00**  
**117944-13\***

**DESCRIPTION**

- Three stages
- 240 volts
- 5.7"/145 mm diameter
- Double ball bearings
- Single speed
- ACUSTEK® low-noise peripheral 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



**SPECIAL FEATURES**

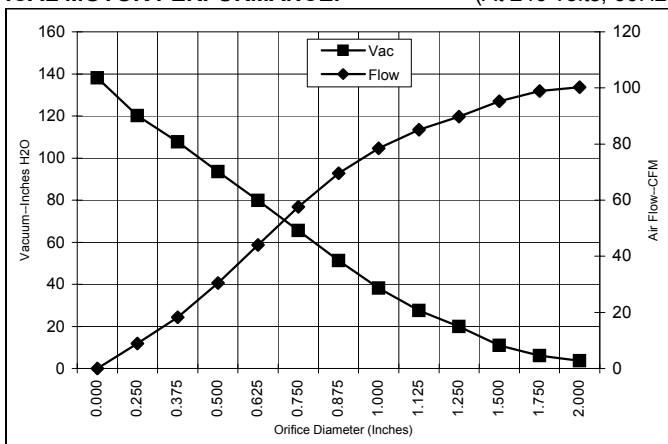
- Suitable for 240 volt AC operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- Provision for grounding
- Skeleton-frame design
- 10 mm shaft and bearing system
- Aluminum fan end bracket designed to dampen vibration and improve durability
- ACUSTEK® low-noise design, U.S. Patent #1,417,200
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs

**\* Model 117939-13 features patented air seal bearing protection, U.S. Patent # 4,088,424 and epoxy painted fan case**

**TYPICAL MOTOR PERFORMANCE.\***

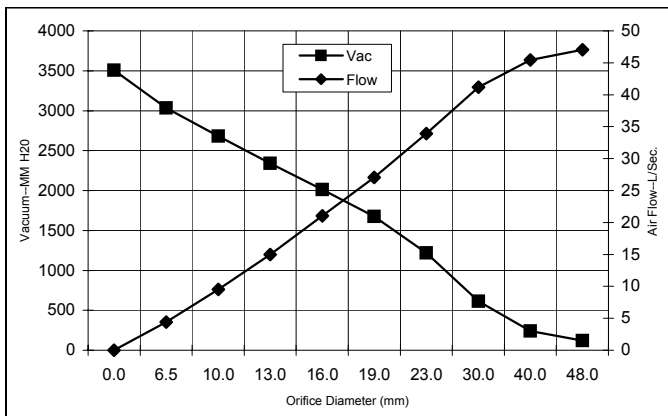
(At 240 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

**ASTM DATA**



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H <sub>2</sub> O)	Flow (CFM)	Air Watts
2.000	6.7	1521	20260	3.7	100.3	43
1.750	6.7	1527	20210	6.1	98.9	72
1.500	6.8	1536	20140	10.9	95.2	122
1.250	6.8	1551	20040	20.0	89.8	212
1.125	6.9	1564	19970	27.6	85.1	277
1.000	6.9	1571	19880	38.1	78.5	351
0.875	6.9	1568	19910	51.2	69.6	419
0.750	6.7	1527	20200	65.6	57.6	444
0.625	6.3	1436	20820	79.8	44.0	413
0.500	5.8	1322	21680	93.6	30.4	334
0.375	5.2	1188	22880	107.7	18.3	231
0.250	4.6	1064	24160	120.1	8.9	126
0.000	4.1	965	25620	138.1	0.0	0

**METRIC DATA**



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H <sub>2</sub> O)	Flow (L/Sec)	Air Watts
48.0	6.7	1524	20238	121	47.1	56
40.0	6.7	1533	20161	240	45.5	107
30.0	6.9	1558	20002	614	41.2	248
23.0	6.9	1569	19903	1217	33.9	402
19.0	6.7	1525	20212	1673	27.1	443
16.0	6.3	1440	20795	2012	21.0	414
13.0	5.8	1333	21594	2342	15.0	342
10.0	5.3	1208	22700	2682	9.5	246
6.5	4.6	1070	24096	3035	4.4	131
0.0	4.1	965	25620	3508	0.0	0

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

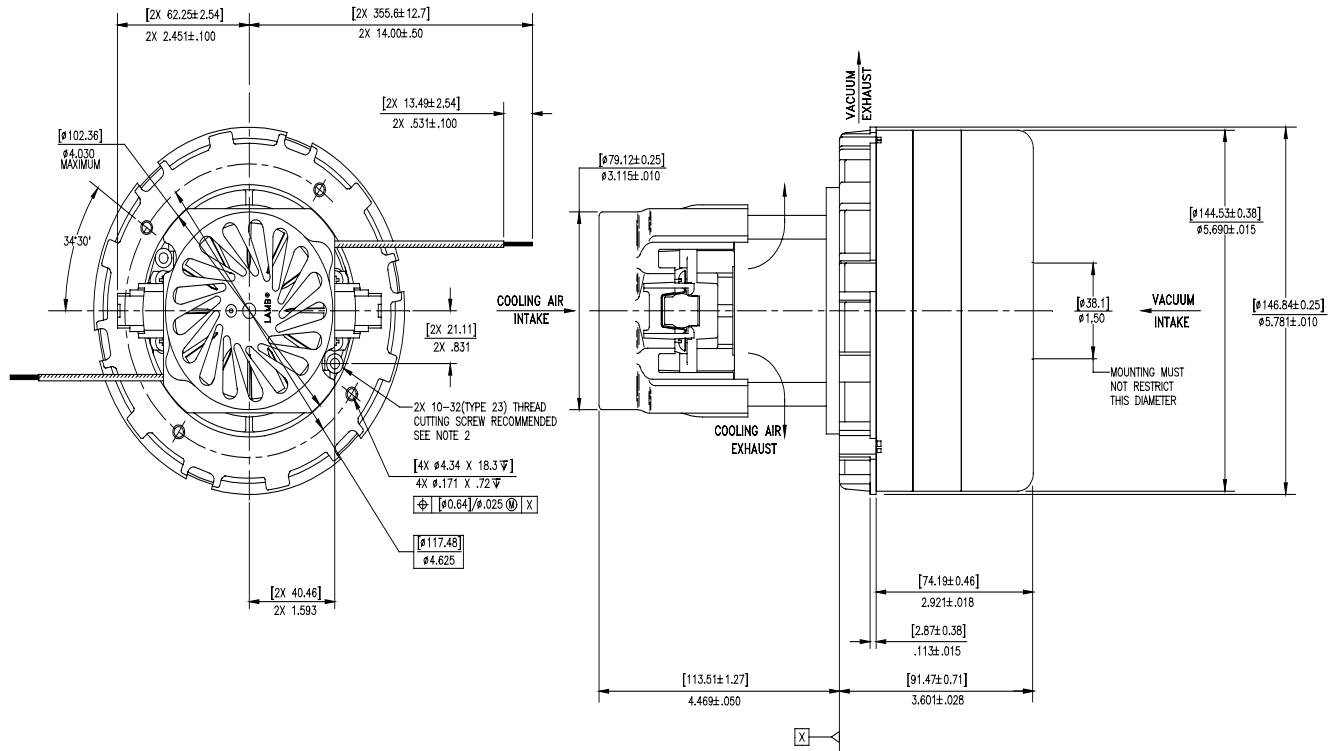
\* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary due to normal manufacturing variations.

<b>Test Specs:</b>	<b>240 volts</b>	<b>Minimum Sealed Vacuum:</b>	<b>132.0"</b>	<b>ORIFICE:</b>	<b>7/8"</b>	<b>Minimum Vacuum:</b>	<b>44.0"</b>	<b>Maximum Watts:</b>	<b>1740</b>
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**DIMENSIONS**

**NOTES:**

1. LEADS: 18GA STRANDED, LEADS CAN BE ANY COLOR EXCEPT GREEN OR GREEN WITH YELLOW STRIPE. GROUNDING OR EARTHING PROVISIONS: USE HOLES AS INDICATED FOR GROUNDING OR EARTHING.
2. REFER TO APPROPRIATE LISTING OR REGULATORY AGENCY FOR PROPER METHOD OF GROUNDING OR EARTHING.
3. RECOMMENDED SCREW SIZE 10-16 TYPE BT OR 25 THREAD CUTTING SCREW. MAXIMUM PENETRATION [17.40]/.685.
4. ALLOW [1612.9 MM SQUARE]/2.5 IN SQUARE FOR COOLING AIR INTAKE.
5. COOLING AIR INTAKE MUST BE SEPERATED FROM COOLING AIR EXHAUST.
6. VACUUM EXHAUST MUST BE SEPERATED FROM COOLING AIR EXHAUST.
7. MOTOR IDENTIFICATION: MODEL NUMBER, DATE OF MANUFACTURE, UL & CSA RECOGNITION CODE, INSPECTORS CODE MANUFACTURERS NAME, MADE IN U.S.A., VOLTAGE AND FREQUENCY.



**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/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