

AMETEK

LAMB ELECTRIC

Product Bulletin

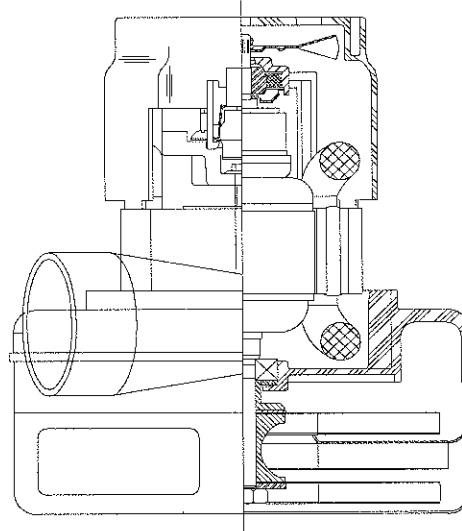
**Model: 116210-50
116210-85***

DESCRIPTION

- Two stage
- 120 volts
- 5.7"/145 mm diameter
- Ball / Sleeve ball bearing system
- Single speed
- Tangential bypass discharge
- Plastic 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

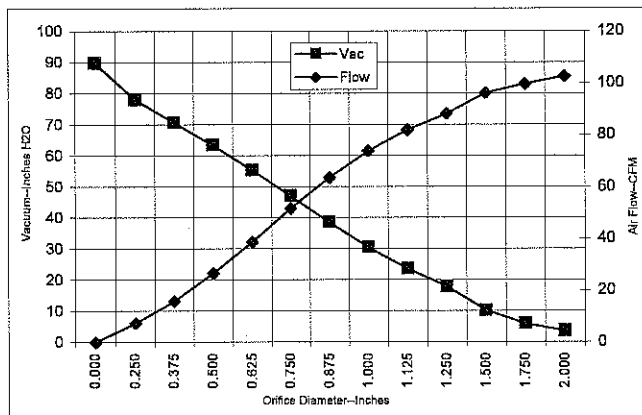
- Suitable for 120 volt AC operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- CSA certified, class 1611 01 (LR31393)
- Provision for grounding
- Skeleton-frame design
- Epoxy painted fan case
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs

***Model 116210-85 features
1 7/8" inlet tube**

TYPICAL MOTOR PERFORMANCE.*

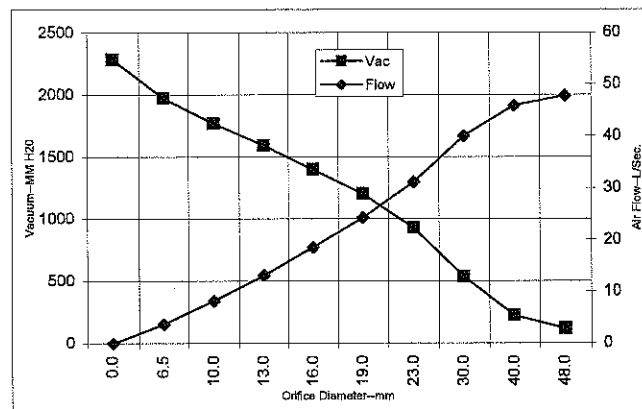
(At 120 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM DATA



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H ₂ O)	Flow (CFM)	Air Watts
2.000	8.0	930	18252	3.7	102.6	44
1.750	8.1	935	18191	5.9	99.7	70
1.500	8.1	941	18121	10.2	96.2	116
1.250	8.2	949	18034	17.9	88.3	186
1.125	8.2	949	18054	23.6	82.0	227
1.000	8.1	941	18135	30.5	73.8	265
0.875	8.0	923	18366	38.6	63.5	288
0.750	7.6	887	18743	47.1	51.6	285
0.625	7.2	837	19429	55.3	38.8	252
0.500	6.6	775	20281	63.4	26.6	198
0.375	6.0	715	21223	70.7	15.8	131
0.250	5.5	660	22227	78.0	7.4	68
0.000	5.1	613	23134	89.8	0.0	0

METRIC DATA



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H ₂ O)	Flow (L/Sec)	Air Watts
48.0	8.0	932	18225	119	47.8	55
40.0	8.1	939	18142	226	45.9	102
30.0	8.2	949	18045	534	40.0	209
23.0	8.0	928	18308	929	31.2	282
19.0	7.6	886	18757	1201	24.2	285
16.0	7.2	839	19402	1396	18.6	253
13.0	6.7	781	20196	1590	13.1	203
10.0	6.1	724	21082	1768	8.2	141
6.5	5.6	663	22177	1972	3.7	71
0.0	5.1	613	23134	2281	0.0	0

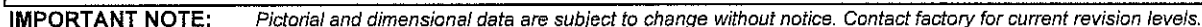
Note: Metric performance data is calculated from the ASTM data above.

* 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:	120 volts	Minimum Sealed Vacuum:	80.0"	ORIFICE:	7/8 "	Minimum Vacuum:	35.0"	Maximum Watts:	1050
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NOTES:

- NOTES:
1. LEADS: 18GA STRANDED. LEAD COLORS: ONE BLACK AND ONE WHITE, COLORS DO NOT NEED TO BE ORIENTED.
 2. GROUNDING OR EARTHING PROVISIONS: USE HOLES AS INDICATED FOR GROUNDING OR EARTHING.
REFER TO APPROPRIATE LISTING OR REGULATORY AGENCY FOR PROPER METHOD OF GROUNDING OR EARTHING.



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.

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