

# LAMB ELECTRIC

#### Model: 117504-13

### DESCRIPTION

- Two stage
- 24 volts
- 7.2"/183 mm diameter
- Double ball bearings
- Single speed
- Tangential 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



### SPECIAL FEATURES

- Suitable for 24 volt DC operation - UL recognized, category PRGY2 (E47185)

- 10 mm shaft and bearing system

- Epoxy painted fan case
- Patented air seal bearing construction. U.S. Patent #4,088,424

- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs

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															Orifice	Amps	Watts	RPM	Vac	Flow	Air
	<sup>90</sup> T	_			Ļ								T <sup>100</sup>		(Inches)		(In)		(In.H2O)	(CFM)	Watts
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۱.	70 -		┶┓			-			-	$\vdash$	[		80		1.750	37.0	887	15997	4.6	85.9	47
5	0.60							$\nearrow$	T.				- 70		1.500	36.9	887	16025	7.9	81.6	76
Γ	s H20						$\checkmark$						- 60		1.250	36.9	885	16030	14.5	76.9	131
Λ	49 50 -				$\rightarrow$		-						50	2	1.125	36.9	886	16060	19.7	72.5	168
	늘 40 <del>-</del>					┻							40		1.000	36.8	882	16095	26.4	65.9	205
)	<sup>2</sup> 30				X		┖						40 *	2	0.875	36.4	874	16190	34.6	57.5	234
۱.	00						1	$\triangleleft$					- 30		0.750	35.7	857	16467	44.3	47.6	248
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۱.	10	1											10		0.500	31.5	757	17340	61.6	24.8	180
	0	-1	_	$ \downarrow \downarrow$					-	-			0		0.375	29.1	698	18067	68.7	14.9	120
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						-						1	45		Orifice	Amps	Watts	RPM	Vac	Flow	Air
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1	2000					[	<b></b>	ac Iow			$\rightarrow$		45		Orifice (mm) 48.0	<b>Amps</b> 37.0	Watts (In) 888	<b>RPM</b> 16010	Vac (mm H2O) 91	Flow (L/Sec) 41.0	Air Watts 37
1	2000 1750					[	- <b>B</b> \ 	ac Iow		-	<b>1</b>		45 40 35		Orifice (mm) 48.0 40.0	Amps 37.0 36.9	Watts (In) 888 887	<b>RPM</b> 16010 16017	Vac (mm H2O) 91 176	Flow (L/Sec) 41.0 39.1	Air Watts 37 67
	2000 1750 1500					-[	- <b></b> F	ac low	/	+			45 40 35 30	ic.	Orifice (mm) 48.0 40.0 30.0	Amps 37.0 36.9 36.9	Watts (In) 888 887 886	<b>RPM</b> 16010 16017 16047	Vac (mm H2O) 91 176 441	Flow (L/Sec) 41.0 39.1 35.2	Air Watts 37 67 151
/ : :	2000 1750 1500 1500 H ¥							ac low		*			45 40 35 30 25	-1/ 286.	Orifice (mm) 48.0 40.0 30.0 23.0	Amps 37.0 36.9 36.9 36.5	Watts   (In)   888   887   886   876	<b>RPM</b> 16010 16017 16047 16166	Vac (mm H2O) 91 176 441 827	Flow (L/Sec) 41.0 39.1 35.2 28.1	Air Watts 37 67 151 227
/ - - -	2000 1750 1500 CH W1250 W1250			<b></b>				low	/	*			45 40 35 30 25 20	FIOWLYSEC.	Orifice (mm) 48.0 40.0 30.0 23.0 19.0	Amps 37.0 36.9 36.5 35.7	Watts (In) 888 887 886 876 876 856	<b>RPM</b> 16010 16017 16047 16166 16473	Vac (mm H2O) 91 176 441 827 1130	Flow (L/Sec) 41.0 39.1 35.2 28.1 22.4	Air Watts 37 67 151 227 248
	2000 1750 1500 07H W							ac low		*	*		45 40 35 30 25 20	AIF FIOWLUSEC.	Orifice (mm)   48.0   40.0   30.0   23.0   19.0   16.0	Amps 37.0 36.9 36.5 35.7 33.8	Watts (In) 888 887 886 876 876 856 856 812	<b>RPM</b> 16010 16017 16047 16166 16473 16765	Vac (mm H2O) 91 176 441 827 1130 1347	Flow   (L/Sec)   41.0   39.1   35.2   28.1   22.4   17.3	Air Watts 37 67 151 227 248 228
	2000 1750 1500 07H WW- W1250 1000 750							lac low		*	<i>*</i>		45 40 35 30 25 20 15	AIL FIOWL'SBC.	Orifice (mm)   48.0   40.0   30.0   23.0   19.0   16.0   13.0	Amps 37.0 36.9 36.9 36.5 35.7 33.8 31.8	Watts   (In)   888   887   886   876   856   812   762	<b>RPM</b> 16010 16017 16047 16166 16473 16765 17284	Vac (mm H2O) 91 176 441 827 1130 1347 1544	Flow (L/Sec) 41.0 39.1 35.2 28.1 22.4 17.3 12.2	Air Watts 37 67 151 227 248 228 184
	2000 1750 02H W1250 1500 750 750 500							ac low					45 40 35 30 25 20 15 10	All FIOWL'SBC.	Orifice (mm)   48.0   40.0   30.0   23.0   19.0   16.0   13.0   10.0	Amps 37.0 36.9 36.5 35.7 33.8 31.8 29.5	Watts   (In)   888   887   886   876   856   812   762   707	RPM   16010   16017   16047   16166   16473   16765   17284   17958	Vac (mm H2O) 91 176 441 827 1130 1347 1544 1718	Flow (L/Sec) 41.0 39.1 35.2 28.1 22.4 17.3 12.2 7.7	Air Watts 37 67 151 227 248 228 184 129
	2000 1750 02H W1250 1000 750 500 250							ac low					45 40 35 30 25 20 15 10 5	All FlowL'SBC.	Orifice (mm)   48.0   40.0   30.0   23.0   19.0   16.0   13.0   10.0   6.5	Amps 37.0 36.9 36.5 35.7 33.8 31.8 29.5 26.7	Watts   (In)   888   887   886   876   856   812   762   707   642	RPM   16010   16017   16047   16166   16473   16765   17284   17958   18723	Vac (mm H2O) 91 176 441 827 1130 1347 1544 1718 1892	Flow (L/Sec) 41.0 39.1 35.2 28.1 22.4 17.3 12.2 7.7 3.6	Air   Watts   37   67   151   227   248   228   184   129   66
	2000 1750 1500 07H 1250 1000 750 500 250							ac low					45 40 35 30 25 20 5 15 10 5 0	AIL FIOWU-SBC.	Orifice (mm)   48.0   40.0   30.0   23.0   19.0   16.0   13.0   0.0   6.5   0.0	Amps 37.0 36.9 36.5 35.7 33.8 31.8 29.5 26.7 25.1	Watts (In) 888 887 886 876 886 876 856 812 762 707 642 602	RPM   16010   16017   16047   16166   16473   16765   17284   17958   18723   19585	Vac (mm H2O) 91 176 441 827 1130 1347 1544 1718 1892 2101	Flow (L/Sec) 41.0 39.1 35.2 28.1 22.4 17.3 12.2 7.7 3.6 0.0	Air Watts 37 67 151 227 248 228 184 129 66 0

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

Test Specs:	24 volts	Minimum Sealed Vacuum:	75.0"	ORIFICE:	7/8 "	Minimum Vacuum:	27.0"	Maximum Watts:	975
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DIMENSIONS



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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