



**AMETEK**  
**LAMB ELECTRIC**

**Product Bulletin**

**Model: 121119-00**

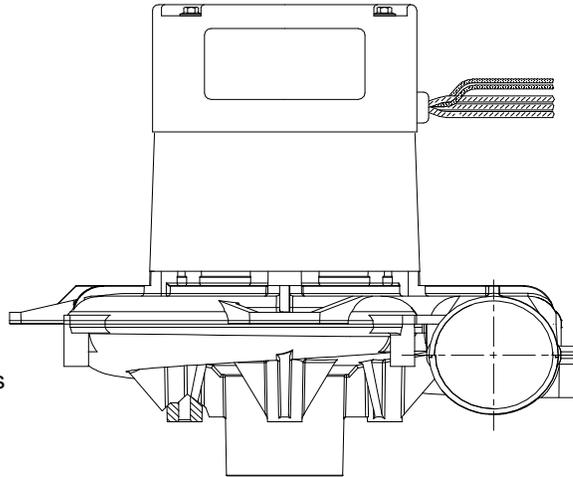


**DESCRIPTION**

- Brushless Motor
- Switch Reluctance (SR) Technology
- One-stage High Flow Fan design
- 230 volts, 50/60 Hz
- 9.1" / 231 mm diameter
- Dual 10mm ball bearings
- Tangential discharge
- All aluminum die cast housings used in motor construction
- Life expectancy: 5 -10 times more than the brush-motor equivalent.

**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**

- "Generation II" (DIGITAL) Controller: no external low-voltage control power required. (See "INFIN-A-TEK Application Notes")
- UL component recognized (pending)
- IP Rating: 1.0
- **Speed control capability**
- High CFM fan system
- Thermally protected motor design
- Aluminum fan end bracket designed to dampen vibration and improve durability

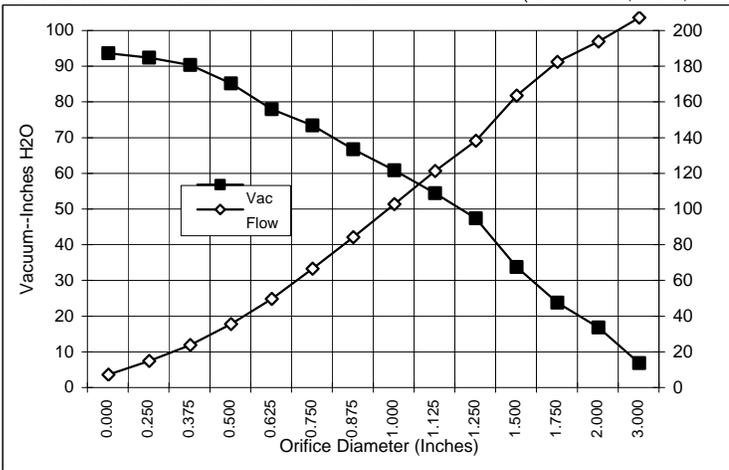
Please refer to INFIN-A-TEK Application Notes for details on the operation and wiring of this switched-reluctance motor.



**TYPICAL MOTOR PERFORMANCE.\***

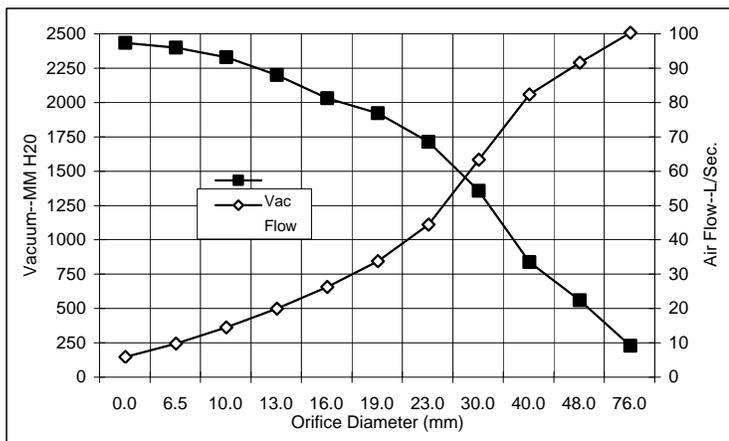
(At 230 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM DATA



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H2O)	Flow (CFM)	Air Watts
3.000	8.0	1600	28100	3.2	200.0	76
2.000	8.1	1619	28046	13.2	186.6	290
1.750	8.2	1637	28046	20.1	175.2	415
1.500	8.3	1654	28046	30.2	156.3	555
1.250	8.3	1651	28046	43.8	131.0	675
1.125	8.1	1629	28095	50.8	114.0	682
1.000	7.8	1577	28243	57.2	95.6	643
0.875	7.4	1500	28538	63.1	77.1	572
0.750	7.2	1430	29423	69.8	59.4	488
0.625	6.5	1314	29915	74.4	42.5	372
0.500	6.4	1271	30703	81.6	28.4	273
0.375	5.8	1149	32966	86.7	16.6	169
0.250	5.2	1038	33507	88.8	7.8	81
0.000	4.6	904	33655	90.1	0.0	0

METRIC DATA



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (L/Sec)	Air Watts
76.2	8.0	1600	28100	81	94.4	75
48.0	8.1	1627	28046	413	85.7	345
40.0	8.2	1649	28046	690	76.5	513
30.0	8.2	1639	28073	1210	57.4	678
23.0	7.5	1519	28464	1565	38.6	590
19.0	7.1	1428	29433	1775	27.9	486
16.0	6.6	1319	29895	1884	20.4	376
13.0	6.4	1275	30624	2054	14.1	282
10.0	5.9	1167	32627	2184	8.7	184
6.5	5.2	1044	33480	2253	3.9	85
0.0	4.6	904	33655	2287	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 variances.

Test Specs: 230v	Minimum Sealed Vacuum: TBD	ORIFICE: 7/8"	Minimum Vacuum: TBD	Maximum Watts: TBD
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