



**Model: 122257-46**

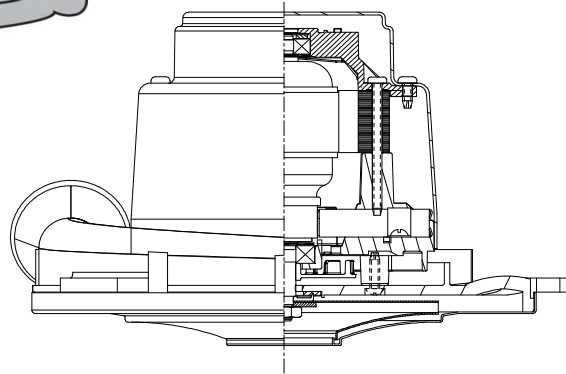


**DESCRIPTION**

- Single stage tapered fan
- 8.4"(206mm) diameter
- Improved sound quality
- "True" tangential discharge bracket
- 42 volts DC
- 3.5" High-Efficiency lamination
- Double ball bearings; 10mm output

**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**

- 2000+ hours life
- Up to 36% Overall Efficiency
- High efficient cooling system
- Lamb "Green Power" Label
- UL recognized, category PRGY2 (E47185)
- CSA certification pending
- Same mounting pattern as Lamb's 7.2 tangential-bypass
- Optional filtered cooling air
- Patent-pending bearing protection for wet applications
- 07 version with Packard Terminals

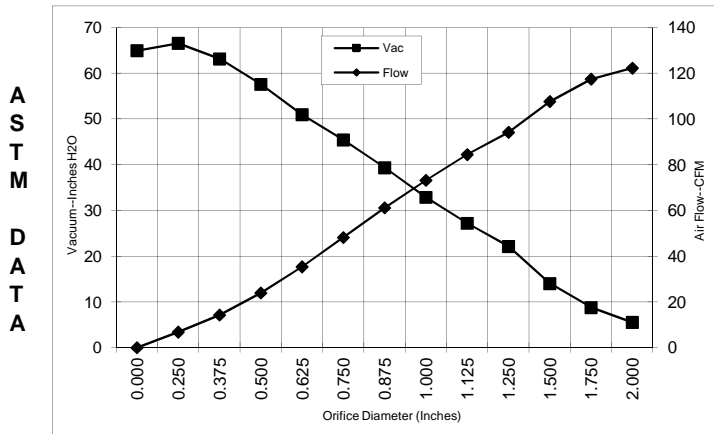
**PEAK AIRWATTS**

**285**

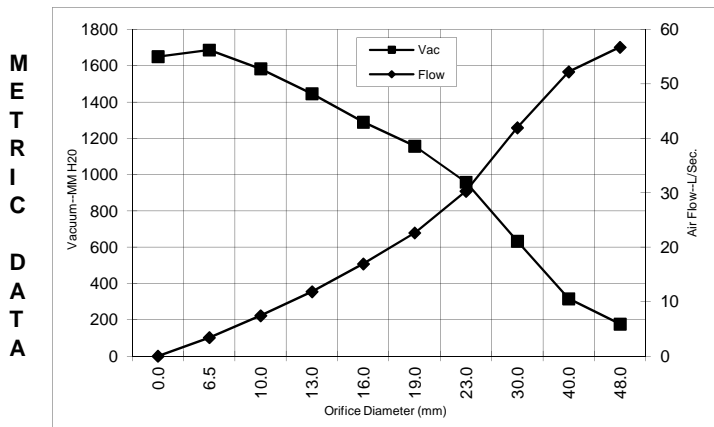
Calculated in accordance with ASTM F2105

**TYPICAL MOTOR PERFORMANCE.\***

(At 42 VDC, test data is corrected to standard conditions of 29.92 Hg, 68° F.)



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H <sub>2</sub> O)	Flow (CFM)	Air Watts
2.000	19.3	814	19100	5.5	122.3	79
1.750	19.3	814	19112	8.8	117.5	121
1.500	19.2	808	19095	14.0	107.7	177
1.250	19.1	803	19218	22.2	94.2	245
1.125	18.7	790	19382	27.2	84.5	270
1.000	18.3	771	19604	32.9	73.2	282
0.875	17.6	745	19998	39.4	61.2	283
0.750	16.7	705	20562	45.4	48.2	257
0.625	15.4	652	21413	51.0	35.4	212
0.500	14.3	603	22465	57.6	24.0	162
0.375	13.5	573	23367	63.2	14.3	106
0.250	13.2	558	24103	66.6	6.8	53
0.000	12.6	531	24748	64.9	0.0	0



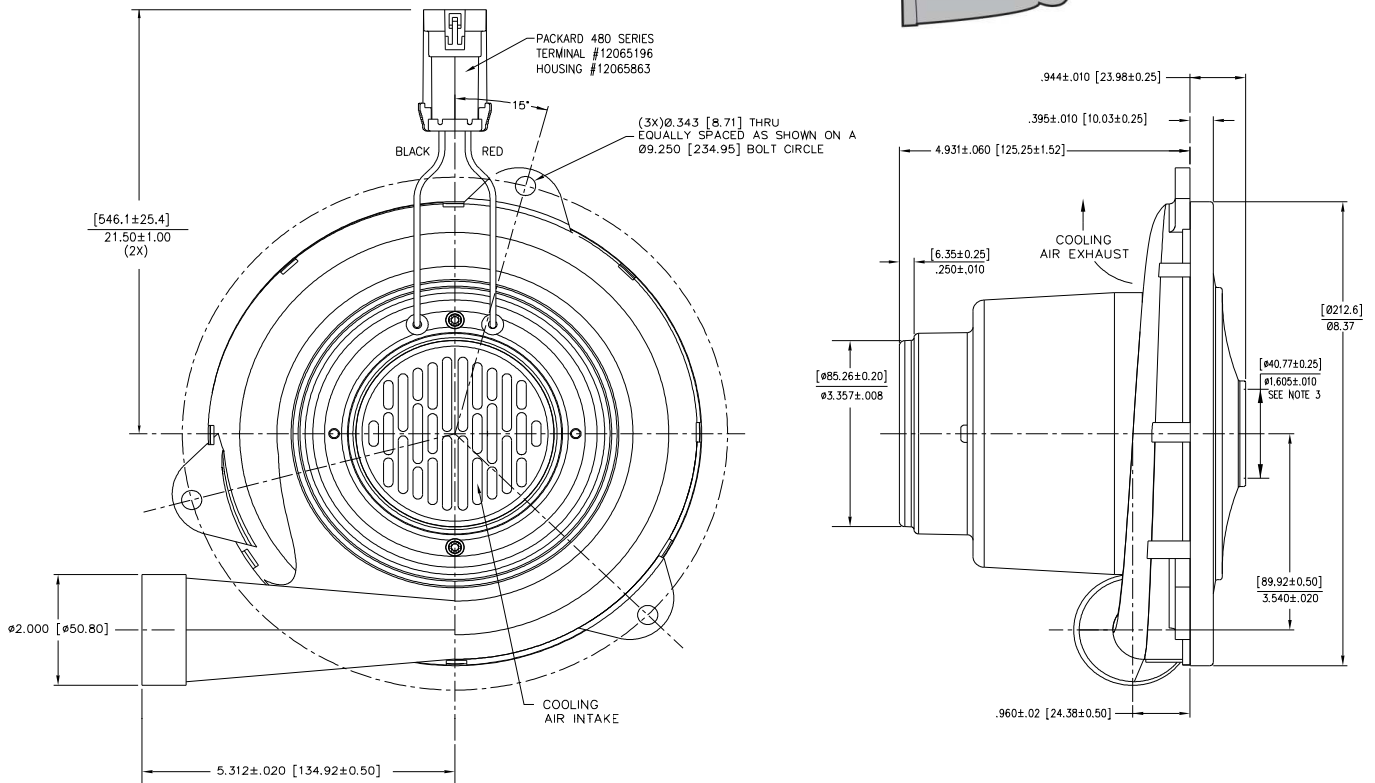
Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H <sub>2</sub> O)	Flow (L/Sec)	Air Watts
48.0	19.3	814	19105	177	56.7	98
40.0	19.2	810	19100	317	52.2	161
30.0	18.9	796	19308	633	41.9	259
23.0	17.8	751	19900	959	30.3	283
19.0	16.7	704	20579	1157	22.6	256
16.0	15.5	654	21379	1289	16.9	213
13.0	14.4	608	22359	1446	11.8	167
10.0	13.7	577	23232	1583	7.4	114
6.5	13.2	559	24066	1686	3.4	56
0.0	12.6	531	24748	1650	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>	42	<b>Minimum Sealed Vacuum:</b>	56.0	<b>ORIFICE:</b>	7/8"	<b>Minimum Vacuum:</b>	33.0	<b>Maximum Watts:</b>	770
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**DIMENSIONS**



- NOTES:
1. LEADS: 18GA. STRANDED. LEADS CAN BE ANY COLOR EXCEPT GREEN OR GREEN WITH YELLOW STRIPE.
  2. MOTOR IDENTIFICATION: MANUFACTURER'S NAME, MODEL NUMBER, VOLTAGE, FREQUENCY, INSPECTORS CODE WITH "JF" SUFFIX, DATE OF MANUFACTURE, AGENCY RECOGNITION CODE, PLANT LOCATION CODE, PATENT PENDING AND COUNTRY OF ORIGIN.
  3. MOUNTING MUST NOT RESTRICT THIS DIAMETER.
  4. ALLOW [0.0026 SQ M]/4.0 SQ IN. (MIN.) FOR COOLING AIR INTAKE.
  5. COOLING AIR INTAKE MUST BE SEPARATED FROM COOLING AIR EXHAUST.
  6. COOLING AIR EXHAUST MUST BE SEPARATED FROM VACUUM EXHAUST.

**IMPORTANT NOTE:** Pictorial and dimensional data are subject to change without notice. Contact factory for current revision levels.

**WARNING** - When using AMETEK Floorcare & Specialty Motors (F&SM) 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. F&SM 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 F&SM 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**

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