

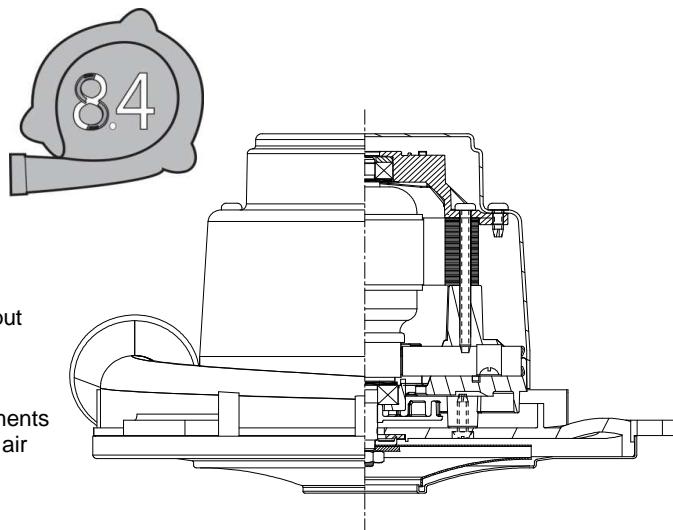


Floorcare & Specialty Motors

Model: 122173-18

DESCRIPTION

- Single stage tapered fan
- 8.4"(206mm) diameter
- Improved sound quality
- "True" tangential discharge bracket
- 24 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.

PEAK AIRWATTS

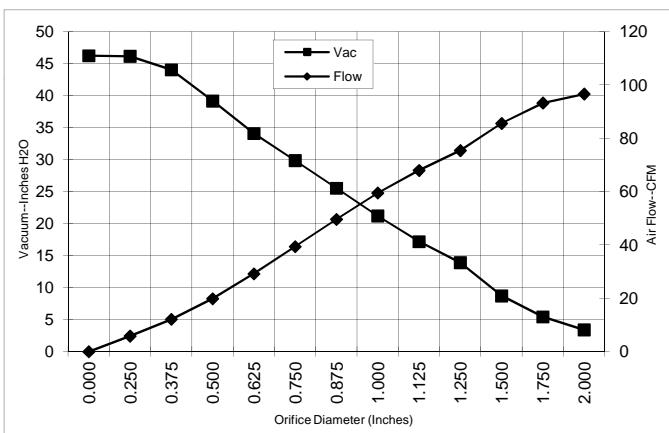
150

Calculated in accordance with ASTM F2105

TYPICAL MOTOR PERFORMANCE.*

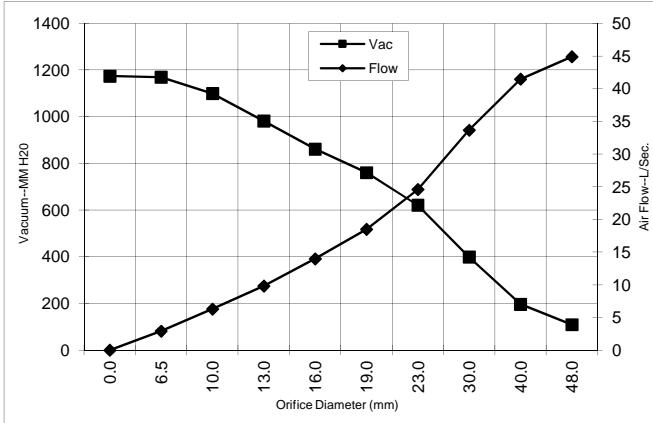
(At **24 VDC**, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM DATA



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H2O)	Flow (CFM)	Air Watts
2.000	19.0	458	14848	3.4	96.6	39
1.750	19.1	459	14827	5.4	93.2	60
1.500	19.0	457	14820	8.7	85.6	88
1.250	18.8	453	14887	13.9	75.4	123
1.125	18.6	449	14987	17.2	68.0	137
1.000	18.3	440	15211	21.2	59.5	148
0.875	17.8	430	15556	25.5	49.6	149
0.750	17.2	415	16029	29.9	39.4	138
0.625	16.4	395	16779	34.1	29.2	117
0.500	15.3	371	17743	39.2	19.9	91
0.375	14.6	354	18531	44.0	12.2	63
0.250	14.0	340	19274	46.1	5.9	32
0.000	13.4	324	20200	46.2	0.0	0

M E T R I C D A T A



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (L/Sec)	Air Watts
48.0	19.1	459	14839	109	44.9	48
40.0	19.0	458	14822	197	41.5	79
30.0	18.7	451	14942	399	33.7	131
23.0	17.9	433	15469	621	24.6	149
19.0	17.2	415	16044	760	18.5	138
16.0	16.4	396	16749	861	14.0	118
13.0	15.4	374	17647	982	9.8	94
10.0	14.7	357	18412	1100	6.3	67
6.5	14.1	341	19237	1169	2.9	33
0.0	13.4	324	20200	1174	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.

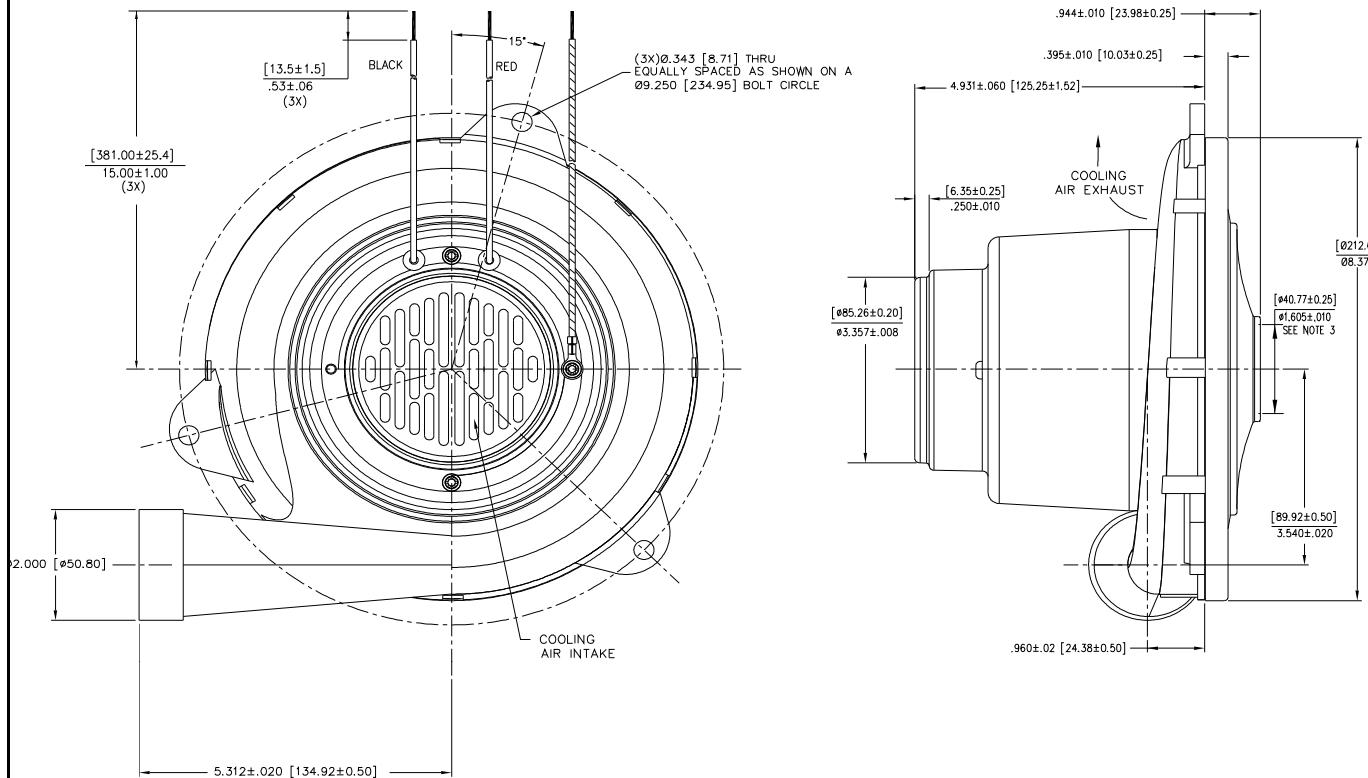
Test Specs: 24 Minimum Sealed Vacuum: 40.0 ORIFICE: 7/8" Minimum Vacuum: 22.0 Maximum Watts: 470

DIMENSIONS

NOTES:

1. LEADS: 16GA. STRANDED.
2. MOTOR IDENTIFICATION: MANUFACTURER'S NAME, MODEL NUMBER, VOLTAGE, FREQUENCY, INSPECTOR'S CODE WITH "FF" 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 IN]/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.

8.4



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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