



**Floorcare & Specialty Motors**

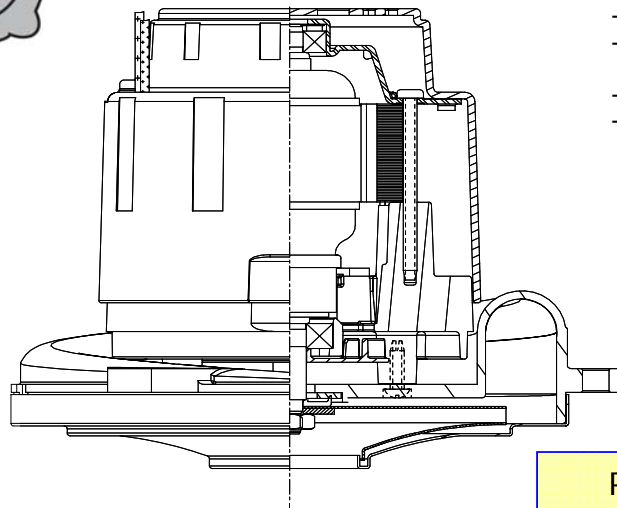
**Model: 122231-18**

**SPECIAL FEATURES**

- 2000+ hours life
- High efficient cooling system
- Lamb "Green Power Label"
- UL recognized, category PRGY2 (E47185)
- CSA certification pending
- Patent-pending bearing protection for wet applications.

**DESCRIPTION**

- 24 volts DC
- Single stage tapered fan
- 6.6" / 162 mm diameter
- Improved sound quality
- "True" tangential discharge bracket
- High-Efficiency "Galaxy" 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

**PEAK AIRWATTS**

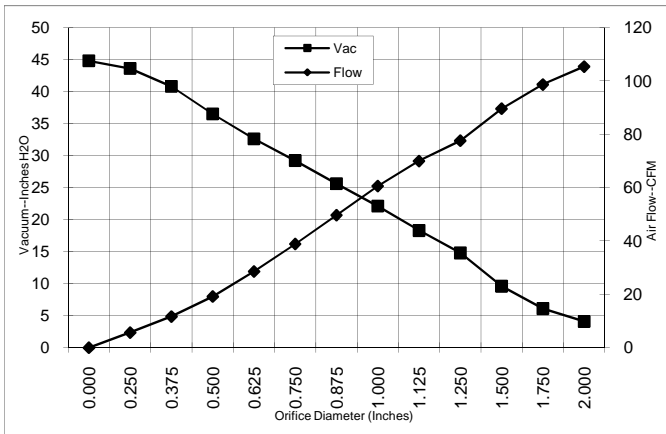
**158**

Calculated in accordance with ASTM F2105

**TYPICAL MOTOR PERFORMANCE.\***

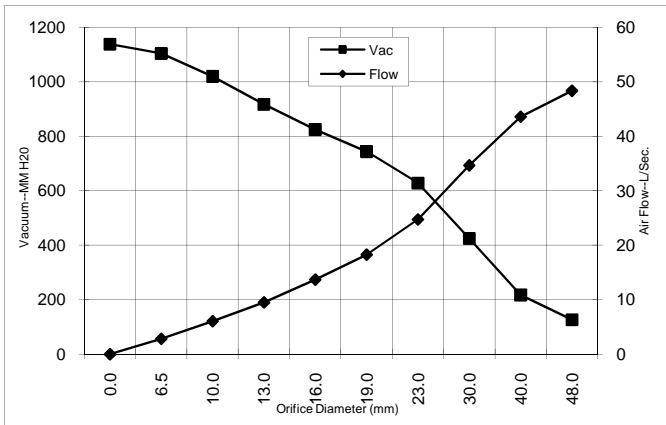
(At 24 VDC, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

**ASTM DATA**



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H <sub>2</sub> O)	Flow (CFM)	Air Watts
2.000	19.4	467	15170	4.1	105.4	50
1.750	19.3	464	15220	6.1	98.7	71
1.500	19.2	461	15220	9.6	89.6	101
1.250	19.0	456	15310	14.8	77.6	135
1.125	18.7	449	15450	18.3	70.0	151
1.000	18.4	443	15670	22.1	60.6	158
0.875	18.0	433	16010	25.6	49.7	149
0.750	17.4	417	16430	29.2	38.9	133
0.625	16.5	398	17070	32.6	28.6	110
0.500	15.6	375	17900	36.5	19.2	82
0.375	14.7	354	18740	40.8	11.7	56
0.250	14.0	336	19310	43.6	5.7	29
0.000	13.4	323	20190	44.8	0.0	0

**METRIC DATA**



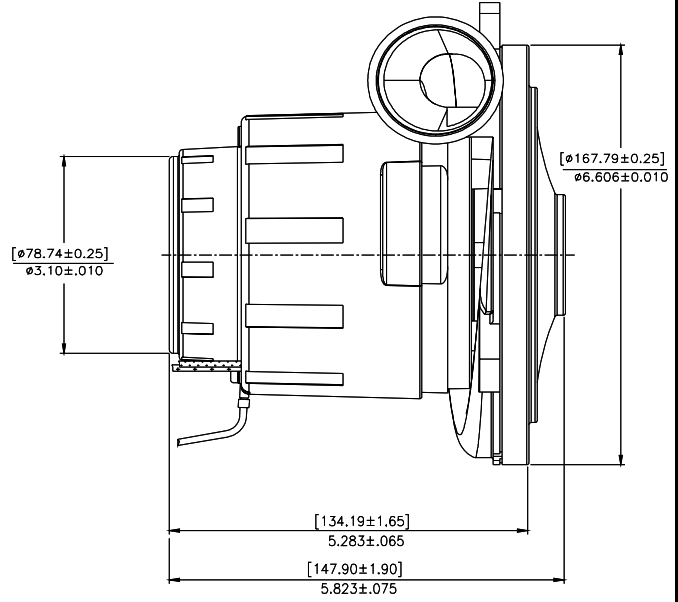
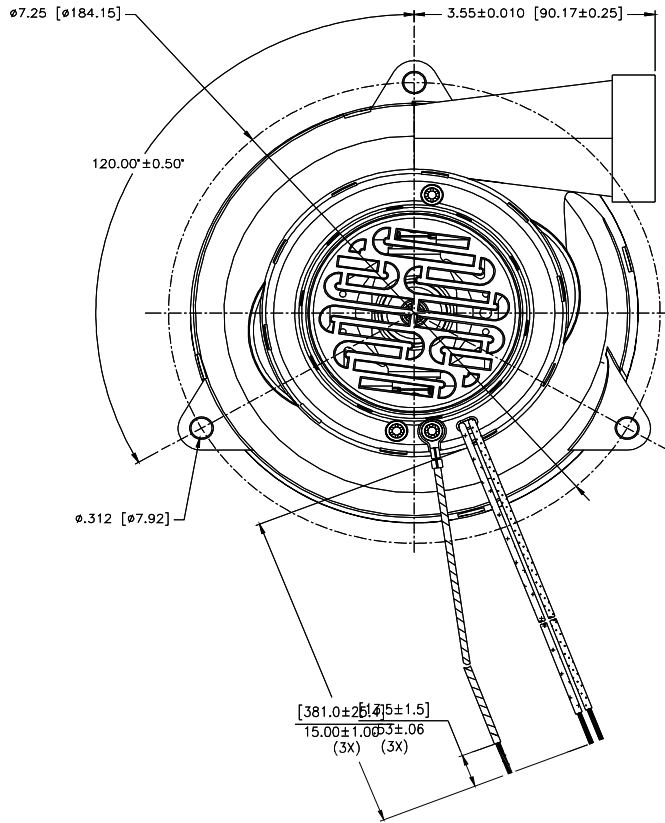
Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H <sub>2</sub> O)	Flow (L/Sec)	Air Watts
48.0	19.4	466	15192	126	48.4	59
40.0	19.2	462	15220	217	43.6	92
30.0	18.8	452	15387	425	34.7	144
23.0	18.1	436	15925	628	24.7	151
19.0	17.3	417	16443	743	18.3	133
16.0	16.6	399	17044	825	13.7	111
13.0	15.7	377	17817	917	9.5	85
10.0	14.8	357	18614	1020	6.1	60
6.5	14.0	337	19282	1104	2.8	30
0.0	13.4	323	20190	1138	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>	24	<b>Minimum Sealed Vacuum:</b>	41.5	<b>ORIFICE:</b>	7/8"	<b>Minimum Vacuum:</b>	22.5	<b>Maximum Watts:</b>	510
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DIMENSIONS



**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](http://www.ametekfsm.com)

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