

SPECIAL FEATURES

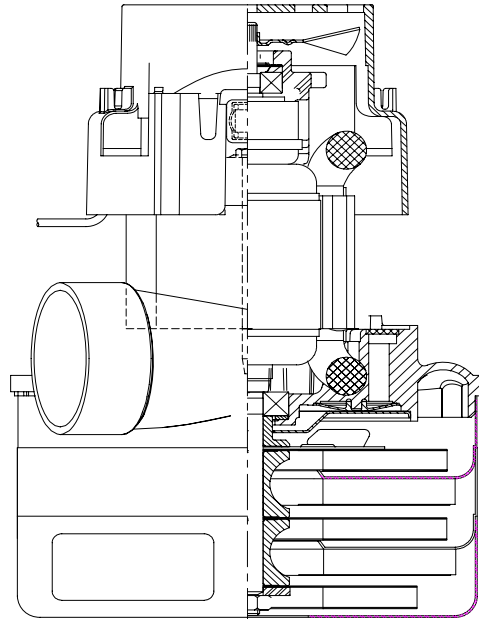
- Suitable for 120 volt AC operation, 50/ 60 Hz
- UL recognized, category PRGY2 (E47185)
- CSA Certified, MC# 168884, Class 1611-30
- Provision for grounding
- Open frame design
- 10mm shaft and bearing system
- Aluminum fan end bracket designed to dampen vibration and improve durability
- Patented "air seal" bearing protection, U.S. Patent #4,088,424
- The GS vacuum motors offer a range of performance levels to meet design needs.

DESCRIPTION

- Three stage
- 120 volts
- 5.7"/145 mm diameter
- Double ball bearings
- Single speed
- Tangential bypass discharge
- Aluminum fan end bracket
- Thermoset commutator bracket

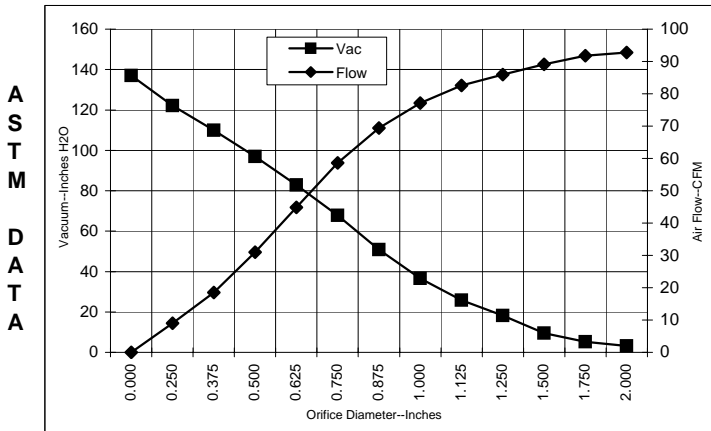
DESIGN APPLICATION

- Equipment operating in environments requiring separation of working air from motor ventilating air
- Designed to handle clean, dry, filtered air only

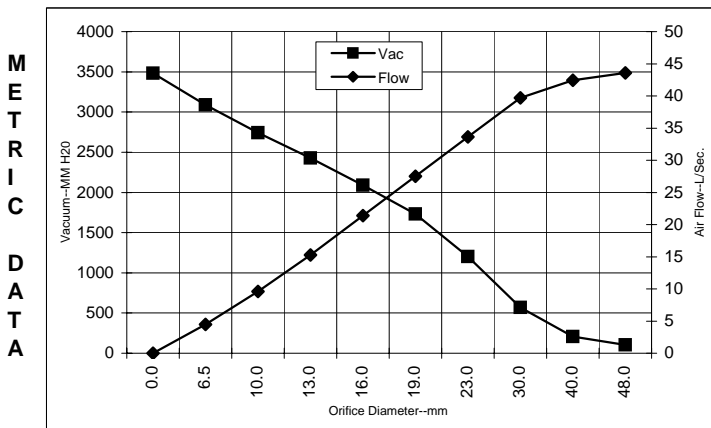


TYPICAL MOTOR PERFORMANCE.*

(At 120 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H ₂ O)	Flow (CFM)	Air Watts
2.000	13.2	1514	20820	3.1	92.8	34
1.750	13.2	1514	20820	5.3	91.8	57
1.500	13.2	1517	20635	9.5	89.1	99
1.250	13.3	1525	20825	18.3	85.9	185
1.125	13.3	1528	20625	25.9	82.6	252
1.000	13.3	1529	20630	36.6	77.1	332
0.875	13.3	1527	20630	50.8	69.4	415
0.750	13.1	1505	20820	67.8	58.6	467
0.625	12.5	1440	21405	82.8	44.8	437
0.500	11.6	1342	22195	96.9	31.0	353
0.375	10.6	1227	23170	109.9	18.5	240
0.250	9.6	1120	24365	122.2	9.0	129
0.000	8.7	1023	25535	137.1	0.0	0



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H ₂ O)	Flow (L/Sec)	Air Watts
48.0	13.2	1514	20820	103	43.6	44
40.0	13.2	1516	20691	209	42.4	87
30.0	13.3	1527	20715	571	39.7	222
23.0	13.3	1528	20630	1200	33.6	394
19.0	13.1	1504	20832	1730	27.5	466
16.0	12.5	1443	21382	2088	21.4	438
13.0	11.7	1352	22116	2426	15.3	361
10.0	10.7	1244	23024	2742	9.6	257
6.5	9.6	1125	24305	3088	4.5	135
0.0	8.7	1023	25535	3481	0.0	0

Note: Metric performance data is calculated from the ASTM data above.

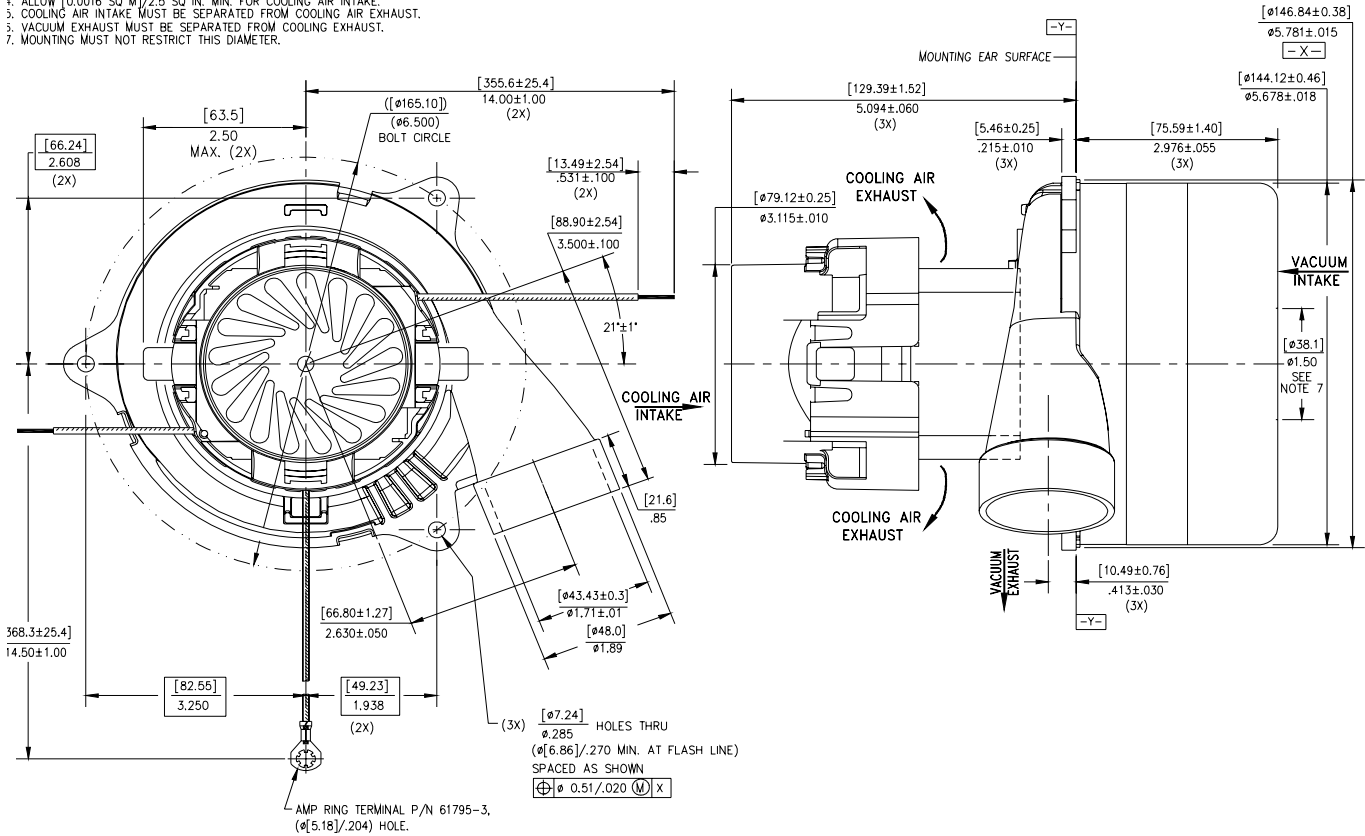
* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary due to normal manufacturing variations.

Test Specs:	120 volts	Minimum Sealed Vacuum:	130.0"	ORIFICE:	7/8 "	Minimum Vacuum:	46.0"	Maximum Watts:	1600
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DIMENSIONS

NOTES:

1. POWER LEADS: 18GA STRANDED, LEADS CAN BE ANY COLOR EXCEPT GREEN OR GREEN WITH YELLOW STRIPE.
2. GROUND LEAD: 18 GA. STRANDED; COLOR: GREEN WITH YELLOW STRIPE.
3. MOTOR IDENTIFICATION: MANUFACTURER'S NAME, MODEL NUMBER, VOLTAGE, FREQUENCY, INSPECTORS CODE, DATE OF MANUFACTURE, AGENCY RECOGNITION CODE, PLANT LOCATION CODE, PATENT INFORMATION, ONE OR MORE OF THE FOLLOWING PATENTS APPLY TO THIS MOTOR: 5482378; 5736805; 4669952; 4684835. AND MADE IN THE USA.
4. ALLOW (0.0016 SQ. IN.) / 2.5 SQ. IN. MIN. FOR COOLING AIR INTAKE.
5. COOLING AIR INTAKE MUST BE SEPARATED FROM COOLING AIR EXHAUST.
6. VACUUM EXHAUST MUST BE SEPARATED FROM COOLING EXHAUST.
7. MOUNTING MUST NOT RESTRICT THIS DIAMETER.



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

WARNING - AMETEK Global Motor Division thru-flow vacuum motors must never be used in applications in which wet or moist conditions are involved, where dry chemicals or other volatile materials are present, or where airflow may be restricted or blocked. Such motors are designed to permit the vacuumed air to pass over the electrical winding to cool it. Thus any foam, liquid (including water), dry chemical, or other foreign substance coming in contact with electrical conductors could cause combustion (depending on volatility) or electrical shock. Failure to observe these precautions could result in property damage and severe personal injury, including death in extreme cases. All applications incorporating Ametek commercial motors should be submitted to Underwriters Laboratories Inc. or other appropriate organizations or agencies for testing specifically related to the safety of your equipment.

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