



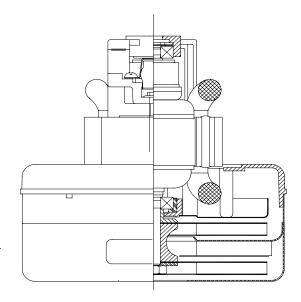
Model: 131100-00

## **DESCRIPTION**

- Two stage
- 120 volts
- 5.7"/145 mm diameter
- Ball/Ball bearings
- Single speed
- Thru-flow discharge
- Aluminum fan end bracket
- Thermoset commutator bracket

## **DESIGN APPLICATION**

- Equipment operating in environments not requiring separation of working air from motor ventilating air
- Designed to handle clean, dry, filtered air only



## SPECIAL FEATURES

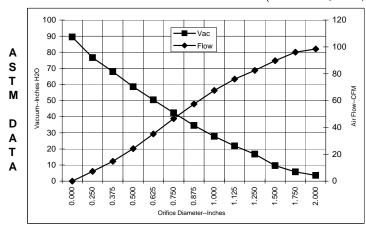
- Suitable for 120 volt AC operation, 50/60 Hz.
- UL recognized, category PRGY2 (E47185).
- CSA Certified,

MC# 168884, Class 1611-01

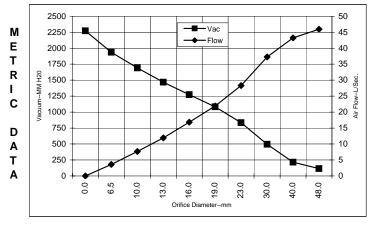
- Provision for grounding.
- Skeleton-frame design.
- Thermostatic protection, automatic reset.
- Aluminum fan end bracket designed to dampen vibration and improve durability
- The GS vacuum motors offer a range of performance levels to meet design needs.

## 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.H2O)	Flow (CFM)	Air Watts
2.000	7.1	797	17860	3.5	98.4	41
1.750	7.1	802	17810	5.8	96.0	65
1.500	7.2	811	17710	9.6	89.7	101
1.250	7.3	820	17560	16.8	82.5	163
1.125	7.3	822	17510	21.8	76.0	195
1.000	7.3	814	17610	27.8	67.6	221
0.875	7.1	798	17810	34.6	57.4	233
0.750	6.8	767	18260	42.4	46.6	232
0.625	6.4	724	18970	50.5	35.2	209
0.500	5.9	675	19830	58.6	24.2	167
0.375	5.3	612	20935	68.0	14.8	118
0.250	4.8	559	22250	76.7	7.3	66
0.000	4.4	512	23410	89.5	0.0	0



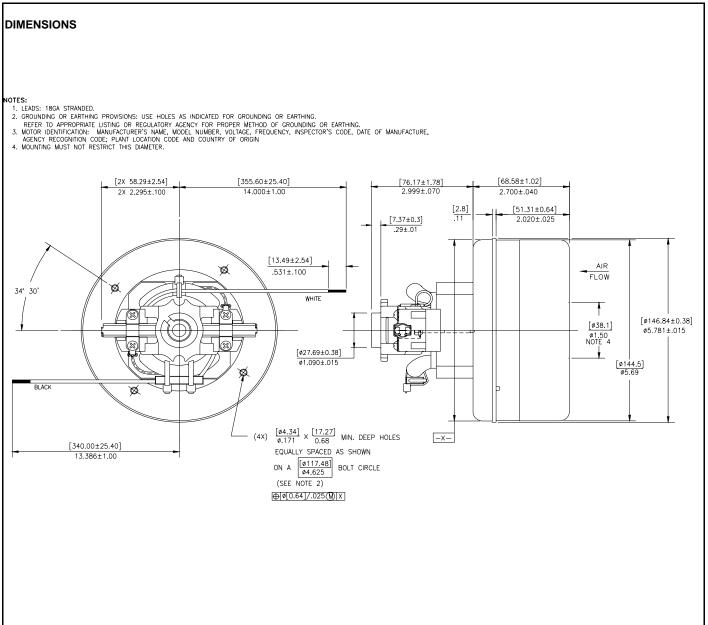
Orifice	Amps	Watts	RPM	Vac	Vac Flow	
(mm)		(In)		(mm H2O)	(L/Sec)	Watts
48.0	7.1	799	17838	115	45.9	52
40.0	7.2	808	17740	215	43.2	90
30.0	7.3	821	17533	496	37.3	181
23.0	7.1	802	17760	835	28.3	230
19.0	6.8	766	18274	1082	21.9	232
16.0	6.4	726	18942	1274	16.8	210
13.0	6.0	680	19744	1468	11.9	171
10.0	5.4	621	20769	1690	7.7	125
6.5	4.8	562	22184	1937	3.6	69
0.0	4.4	512	23410	2272	0.0	0

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

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

Tast Cassas	120 volts	Minimum Sealed Vacuum:	92 N"	ODIFICE.	7/8 "	Minimum Vaarrum.	22 0"	Maximum Watts:	885
Test Specs:	120 00115	IMinimum Sealed Vacuum:	03.0	ORIFICE:	1/0	Minimum Vacuum:	32.0	Maximum Watts:	000

PRODUCT BULLETIN 131100-00



**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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