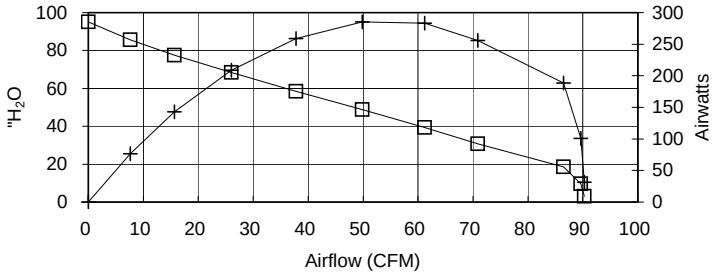
Date Last Modified: 5/24/2005

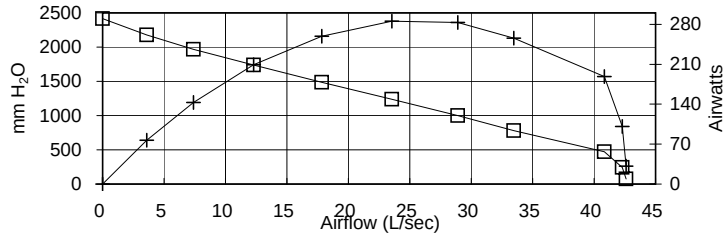
6500-293
AIRFLOW
PERFORMANCE

Volts = 120



ORIFICE (Inches)	SUCTION ("H_2O)	INPUT WATTS	AMPS	RPM'S	CORR. SUCTION ("H_2O)	AIR FLOW (CFM)	CORR. INPUT WATTS	AIR WATTS	H.P.	OVERALL EFF.(%)
2	**2.83**	**1075**	**9.4**	**19,220**	3.0	90.3	1113	31.40	0.042	2.82
1.5	**9.17**	**1081**	**9.5**	**19,100**	9.6	89.6	1119	101.01	0.135	9.02
1.25	**17.73**	**1075**	**7.9**	**19,220**	18.6	86.5	1113	188.52	0.253	16.93
1	**29.37**	**1090**	**9.6**	**18,900**	30.8	70.9	1129	255.91	0.343	22.67
0.875	**37.63**	**1084**	**9.5**	**18,840**	39.4	61.2	1123	283.15	0.380	25.22
0.75	**46.57**	**1054**	**9.2**	**19,200**	48.8	49.9	1091	285.50	0.383	26.16
0.625	**55.80**	**1012**	**8.8**	**19,980**	58.4	37.8	1048	259.20	0.347	24.73
0.5	**65.27**	**956**	**8.2**	**20,980**	68.4	26.0	990	208.91	0.280	21.10
0.375	**74.00**	**886**	**7.6**	**22,200**	77.5	15.7	917	142.75	0.191	15.56
0.25	**81.80**	**834**	**7.2**	**23,140**	85.7	7.6	864	76.65	0.103	8.87
0	**90.83**	**791**	**6.8**	**24,180**	95.1	0.0	819	0.00	0.000	0.00

POLYNOMIAL PEAK AIRWATTS: **285.48**



Metric Data										
ORIFICE (mm)	SUCTION (mm H_2O)	INPUT WATTS	AMPS	RPM'S	CORR. SUCTION (mm H_2O)	AIR FLOW (L/sec)	CORR. INPUT WATTS	AIR WATTS	H.P.	OVERALL EFF.(%)
50.8	**72**	**1075**	**9.4**	19,220	75	42.6	1113	31.4	0.042	2.82
38.1	**233**	**1081**	**9.5**	19,100	244	42.3	1119	101.0	0.135	9.02
31.8	**450**	**1075**	**7.9**	19,220	472	40.8	1113	188.5	0.253	16.93
25.4	**746**	**1090**	**9.6**	18,900	781	33.5	1129	255.9	0.343	22.67
22.2	**956**	**1084**	**9.5**	18,840	1001	28.9	1123	283.2	0.380	25.22
19.1	**1183**	**1054**	**9.2**	19,200	1239	23.5	1091	285.5	0.383	26.16
15.9	**1417**	**1012**	**8.8**	19,980	1485	17.8	1048	259.2	0.347	24.73
12.7	**1658**	**956**	**8.2**	20,980	1736	12.3	990	208.9	0.280	21.10
9.5	**1880**	**886**	**7.6**	22,200	1969	7.4	917	142.8	0.191	15.56
6.4	**2078**	**834**	**7.2**	23,140	2176	3.6	864	76.6	0.103	8.87
0.0	**2307**	**791**	**6.8**	24,180	2416	0.0	819	0.0	0.000	0.00

POLYNOMIAL PEAK AIRWATTS: **285.48**

ORIFICE (mm)	SUCTION (kPa)	INPUT WATTS	AMPS	RPM'S	CORR. SUCTION (kPa)	AIR FLOW (cu m/h)	CORR. INPUT WATTS	AIR WATTS	H.P.	OVERALL EFF.(%)
50.8	**0.705**	**1075**	**9.4**	**19,220**	0.74	153.37	1113	31.4	0.042	2.82
38.1	**2.284**	**1081**	**9.5**	**19,100**	2.39	152.27	1119	101.0	0.135	9.02
31.8	**4.416**	**1075**	**7.9**	**19,220**	4.63	146.99	1113	188.5	0.253	16.93
25.4	**7.315**	**1090**	**9.6**	**18,900**	7.66	120.45	1129	255.9	0.343	22.67
22.2	**9.372**	**1084**	**9.5**	**18,840**	9.82	104.02	1123	283.2	0.380	25.22
19.1	**11.599**	**1054**	**9.2**	**19,200**	12.15	84.75	1091	285.5	0.383	26.16
15.9	**13.898**	**1012**	**8.8**	**19,980**	14.56	64.21	1048	259.2	0.347	24.73
12.7	**16.257**	**956**	**8.2**	**20,980**	17.03	44.25	990	208.9	0.280	21.10
9.5	**18.431**	**886**	**7.6**	**22,200**	19.30	26.67	917	142.8	0.191	15.56
6.4	**20.374**	**834**	**7.2**	**23,140**	21.34	12.95	864	76.6	0.103	8.87
0.0	**22.623**	**791**	**6.8**	**24,180**	23.70	0.00	819	0.0	0.000	0.00

POLYNOMIAL PEAK AIRWATTS: **285.48**

Standard performance data is typical for a motor from a large production quantity. An individual motor's performance will vary due to normal manufacturing variations. Test standards @ 120 volts, corrected to standard atmospheric conditions: Minimum sealed vacuum = 85.62 in H2O, 2175 mm H2O or 21.33 kPa, Maximum open watts = 1258 watts.