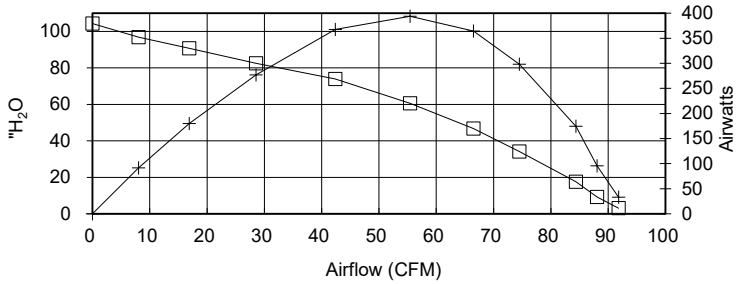
Date Last Modified: 8/27/2013

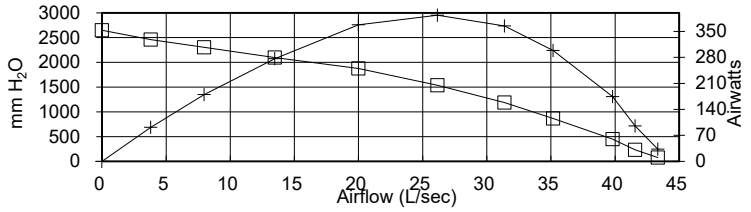
7500-002
AIRFLOW PERFORMANCE

Volts = 120



OptiMotor LLC ELECTRICAL PRODUCTS

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	2.94	1079	9.3	36,865	3.1	91.8	1115	33.07	0.044	2.97
1.5	8.87	1074	9.2	36,999	9.3	88.0	1109	95.67	0.128	8.63
1.25	16.88	1062	9.1	37,013	17.6	84.4	1097	174.46	0.234	15.90
1	32.70	1047	9.0	37,425	34.1	74.5	1082	298.38	0.400	27.59
0.875	44.75	1020	8.8	37,939	46.7	66.5	1054	364.51	0.489	34.59
0.75	58.02	978	8.4	38,816	60.6	55.4	1010	393.80	0.528	38.99
0.625	70.85	921	7.9	40,262	73.9	42.4	951	367.67	0.493	38.66
0.5	79.11	837	7.2	42,471	82.6	28.6	865	276.76	0.371	32.01
0.375	86.92	767	6.6	44,649	90.7	16.9	793	179.82	0.241	22.70
0.25	92.84	709	6.0	46,757	96.9	8.1	733	91.57	0.123	12.51
0	99.93	666	5.7	48,569	104.3	0.0	688	0.00	0.000	0.00
	POLYNOMIAL PEAK AIRWATTS:				395.72					



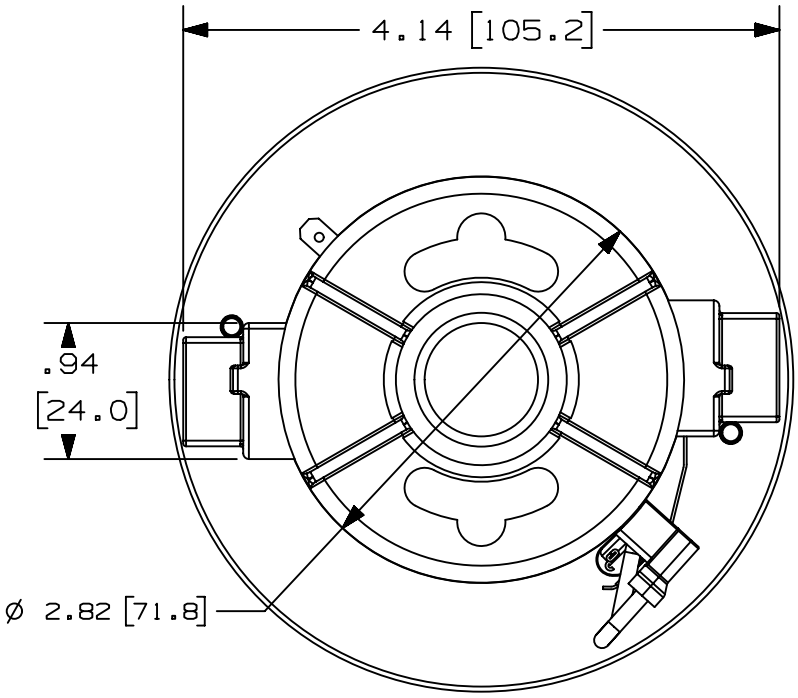
Metric Data										
ORIFICE (mm)	SUCTION (mm H_2O)	INPUT WATTS	AMPS	RPM'S	CORR. SUCTION (mm H_2O)	AIR FLOW (L/sec)	CORR. INPUT WATTS	AIR WATTS	H.P.	OVERALL EFF.(%)
50.8	75	1079	9.3	36,865	78	43.3	1115	33.1	0.044	2.97
38.1	225	1074	9.2	36,999	235	41.6	1109	95.7	0.128	8.63
31.8	429	1062	9.1	37,013	448	39.8	1097	174.5	0.234	15.90
25.4	830	1047	9.0	37,425	867	35.2	1082	298.4	0.400	27.59
22.2	1137	1020	8.8	37,939	1186	31.4	1054	364.5	0.489	34.59
19.1	1474	978	8.4	38,816	1538	26.2	1010	393.8	0.528	38.99
15.9	1800	921	7.9	40,262	1878	20.0	951	367.7	0.493	38.66
12.7	2009	837	7.2	42,471	2097	13.5	865	276.8	0.371	32.01
9.5	2208	767	6.6	44,649	2304	8.0	793	179.8	0.241	22.70
6.4	2358	709	6.0	46,757	2461	3.8	733	91.6	0.123	12.51
0.0	2538	666	5.7	48,569	2649	0.0	688	0.0	0.000	0.00
	POLYNOMIAL PEAK AIRWATTS:				395.72					

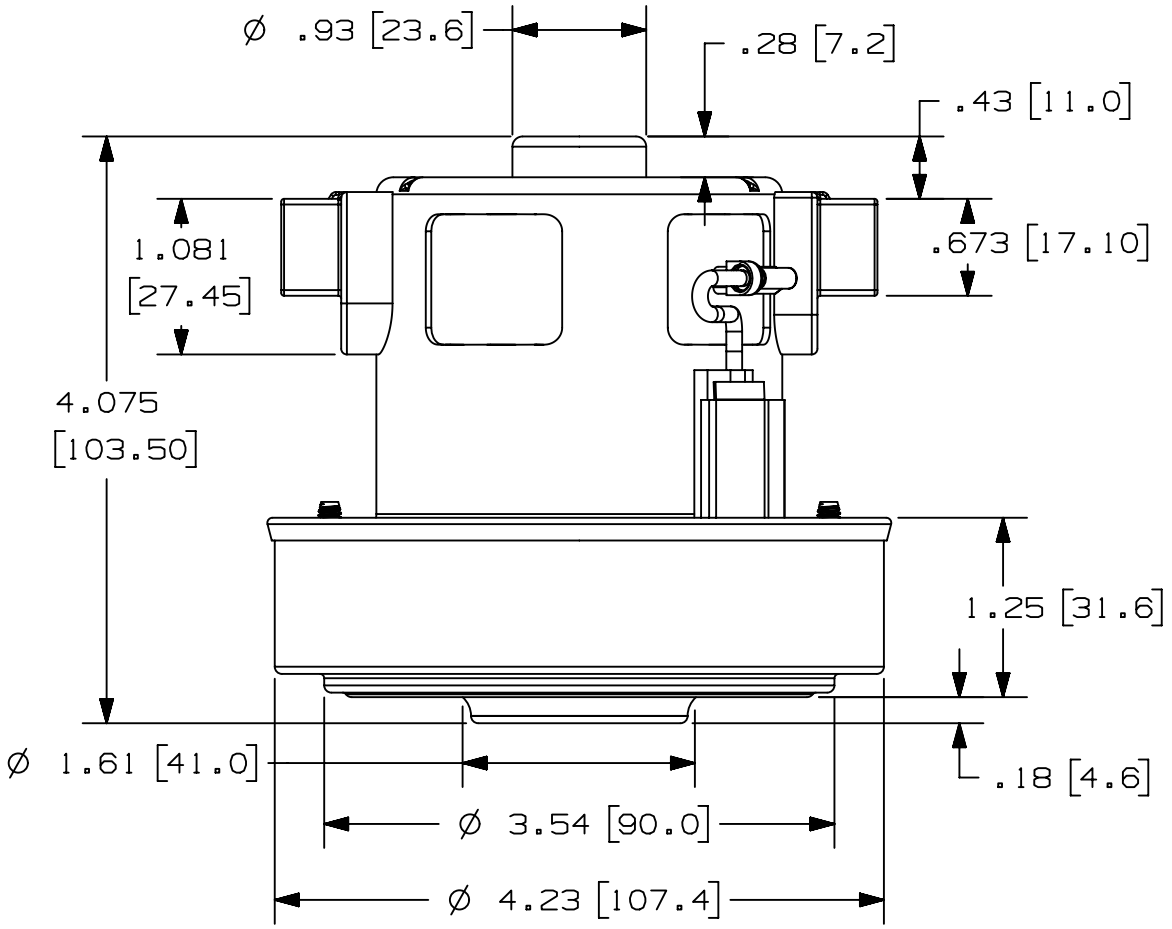
ORIFICE (mm)	SUCTION (kPa)	INPUT WATTS	AMPS	RPM'S	CORR. SUCTION (kPa)	AIR FLOW (cu m/h)	CORR. INPUT WATTS	AIR WATTS	H.P.	OVERALL EFF.(%)
50.8	0.732	1079	9.3	36,865	0.76	156.00	1115	33.1	0.044	2.97
38.1	2.209	1074	9.2	36,999	2.31	149.61	1109	95.7	0.128	8.63
31.8	4.204	1062	9.1	37,013	4.39	143.36	1097	174.5	0.234	15.90
25.4	8.144	1047	9.0	37,425	8.50	126.59	1082	298.4	0.400	27.59
22.2	11.145	1020	8.8	37,939	11.63	113.00	1054	364.5	0.489	34.59
19.1	14.450	978	8.4	38,816	15.08	94.16	1010	393.8	0.528	38.99
15.9	17.646	921	7.9	40,262	18.42	71.99	951	367.7	0.493	38.66
12.7	19.704	837	7.2	42,471	20.57	48.53	865	276.8	0.371	32.01
9.5	21.650	767	6.6	44,649	22.60	28.70	793	179.8	0.241	22.70
6.4	23.125	709	6.0	46,757	24.14	13.68	733	91.6	0.123	12.51
0.0	24.889	666	5.7	48,569	25.98	0.00	688	0.0	0.000	0.00
	POLYNOMIAL PEAK AIRWATTS:				395.72					

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 = 93.87 inH20, 2384 mmH20 or 23.38 Pa, Maximum open watts = 1260 watts.

OptiMotor LLC
ELECTRICAL PRODUCTS

Models:
7500-002
7500-003





Rev E (AF 11-06-17)

Note: Dimensions are for reference only and subject to change. Tolerances of up to ±.040" [1.0mm] can be expected.