

3/4 hp GE-ECM2.3 Blower Airflow Test Data

- Test Method: ANSI/AMCA Standard 210-99, Figure 12 Setup (Free Inlet, Ducted Outlet)
- Data including control power input are converted to AMCA standard atmospheric conditions

Motor Speed = 458 ± 20 rpm

Test Chamber Setting	Airflow Rate cfm	Air Density lbm / ft ³	Static Pressure in - wg	Dynamic Pressure in - wg	Total Pressure in - wg	Control Input Vltg V	Control Input Amp A	Control Input Power W
1	0	0.0724	0.192	0.000	0.192	115	0.302	16.3
2	160	0.0724	0.187	0.000	0.187	115	0.396	22.4
3	246	0.0723	0.156	0.001	0.157	115	0.414	23.9
4	342	0.0723	0.119	0.002	0.121	115	0.430	25.1
5	418	0.0722	0.119	0.003	0.122	115	0.498	29.4
6	477	0.0723	0.114	0.004	0.118	115	0.560	33.5
7	553	0.0723	0.104	0.005	0.109	115	0.631	39.1
8	655	0.0723	0.062	0.007	0.070	115	0.669	42.3
9	703	0.0723	0.021	0.009	0.029	115	0.687	43.2
10	766	0.0723	0.000	0.010	0.010	115	0.751	47.1

Motor Speed = 655 ± 20 rpm

Test Chamber Setting	Airflow Rate cfm	Air Density lbm / ft ³	Static Pressure in - wg	Dynamic Pressure in - wg	Total Pressure in - wg	Control Input Vltg V	Control Input Amp A	Control Input Power W
1	0	0.0723	0.460	0.000	0.477	115	0.606	36.4
2	217	0.0723	0.355	0.001	0.369	115	0.680	41.6
3	373	0.0723	0.350	0.002	0.366	115	0.880	56.0
4	485	0.0723	0.330	0.004	0.346	115	0.991	64.6
5	599	0.0723	0.310	0.006	0.328	115	1.121	74.7
6	713	0.0723	0.260	0.009	0.279	115	1.244	83.3
7	863	0.0723	0.200	0.013	0.220	115	1.449	99.5
8	941	0.0723	0.118	0.015	0.197	115	1.636	114.1
9	1098	0.0723	0.090	0.021	0.114	115	1.917	136.9
10	1221	0.0723	0.000	0.026	0.026	115	2.039	145.2

Motor Speed = 851 ± 20 rpm

Test Chamber Setting	Airflow Rate cfm	Air Density lbm / ft ³	Static Pressure in - wg	Dynamic Pressure in - wg	Total Pressure in - wg	Control Input Vltg V	Control Input Amp A	Control Input Power W
1	0	0.0723	0.861	0.000	0.861	115	1.015	65.8
2	174	0.0723	0.716	0.001	0.717	115	1.050	68.3
3	385	0.0723	0.643	0.003	0.646	115	1.355	90.8
4	579	0.0723	0.597	0.006	0.602	115	1.668	115.1
5	723	0.0723	0.529	0.009	0.538	115	1.867	129.7
6	974	0.0723	0.467	0.016	0.483	115	2.458	178.4
7	1078	0.0723	0.405	0.020	0.425	115	2.625	192.9
8	1242	0.0723	0.332	0.027	0.359	115	3.093	228.2
9	1435	0.0723	0.187	0.036	0.222	115	3.431	256.2
10	1627	0.0723	0.000	0.046	0.046	115	3.678	279.0

Motor Speed = 1044 ± 20 rpm

Test Chamber	Airflow Rate cfm	Air Density lbm / ft ³	Static Pressure in - wg	Dynamic Pressure in - wg	Total Pressure in - wg	Control Input Vltg V	Control Input Amp A	Control Input Power W
1	0	0.0723	1.266	0.000	1.266	115	1.521	105.8
2	217	0.0723	0.970	0.001	0.971	115	1.449	98.5
3	581	0.0723	0.924	0.006	0.930	115	2.310	178.4
4	702	0.0723	0.903	0.009	0.912	115	2.635	195.0
5	1038	0.0723	0.778	0.019	0.797	115	3.379	253.1
6	1191	0.0723	0.721	0.025	0.746	115	3.627	275.9
7	1452	0.0723	0.560	0.037	0.597	115	3.926	308.1
8	1628	0.0723	0.410	0.046	0.456	115	4.105	328.8
9	1787	0.0723	0.270	0.055	0.325	115	4.250	345.4
10	2023	0.0723	0.000	0.071	0.071	115	4.452	369.3