

### 3/4 hp Torquer 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 rpm

Test Chamber Setting	Airflow Rate cfm	Air Density lbm / ft <sup>3</sup>	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	0.218	0.000	0.218	115	0.231	16.7
2	91	0.0724	0.202	0.000	0.202	115	0.251	18.7
3	263	0.0724	0.166	0.001	0.167	115	0.324	24.2
4	322	0.0724	0.155	0.002	0.157	115	0.358	26.9
5	390	0.0724	0.155	0.003	0.158	115	0.399	30.0
6	494	0.0724	0.135	0.004	0.139	115	0.457	35.0
7	572	0.0724	0.109	0.006	0.114	115	0.512	39.7
8	637	0.0724	0.083	0.007	0.090	115	0.559	43.5
9	731	0.0724	0.041	0.009	0.051	115	0.641	50.7
10	810	0.0724	0.000	0.011	0.011	115	0.715	57.1

Motor Speed = 655 rpm

Test Chamber Setting	Airflow Rate cfm	Air Density lbm / ft <sup>3</sup>	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	0.461	0.000	0.461	115	0.378	28.6
2	138	0.0724	0.425	0.000	0.425	115	0.439	33.6
3	378	0.0724	0.368	0.002	0.370	115	0.640	50.9
4	489	0.0724	0.342	0.004	0.346	115	0.734	59.7
5	602	0.0724	0.342	0.006	0.348	115	0.852	70.3
6	731	0.0724	0.300	0.009	0.310	115	1.006	84.1
7	852	0.0724	0.243	0.013	0.256	115	1.178	99.7
8	981	0.0724	0.166	0.017	0.182	115	1.362	117.5
9	1096	0.0724	0.104	0.021	0.124	115	1.561	136.3
10	1226	0.0724	0.000	0.026	0.026	115	1.782	156.8

Motor Speed = 851 rpm

Test Chamber Setting	Airflow Rate cfm	Air Density lbm / ft <sup>3</sup>	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	0.788	0.000	0.788	115	0.620	49.5
2	206	0.0724	0.736	0.001	0.737	115	0.767	62.6
3	478	0.0724	0.653	0.004	0.657	115	1.135	96.1
4	655	0.0724	0.601	0.007	0.608	115	1.355	119.8
5	808	0.0724	0.591	0.011	0.602	115	1.649	144.6
6	993	0.0724	0.518	0.017	0.535	115	2.006	178.3
7	1150	0.0724	0.425	0.023	0.448	115	2.363	213.5
8	1314	0.0724	0.300	0.030	0.330	115	2.863	260.1
9	1479	0.0724	0.166	0.038	0.204	115	3.262	298.5
10	1642	0.0724	0.000	0.047	0.047	115	3.853	354.4

Motor Speed = 1044 rpm

Test Chamber Setting	Airflow Rate cfm	Air Density lbm / ft <sup>3</sup>	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	1.202	0.000	1.202	115	1.006	83.2
2	217	0.0723	1.130	0.001	1.131	115	1.232	103.8
3	500	0.0724	1.026	0.004	1.030	115	1.751	152.4
4	775	0.0723	0.933	0.010	0.943	115	2.336	208.6
5	1033	0.0724	0.912	0.018	0.930	115	2.914	266.3
6	1301	0.0723	0.757	0.029	0.786	115	3.805	353.8
7	1574	0.0724	0.529	0.043	0.571	115	4.908	460.1
8	1771	0.0724	0.363	0.054	0.417	115	5.694	534.6