

659T/659TI/PFT/PFTI Series Performance

Average Face Velocity		300	400	500	600
659T	CFM	730	975	1220	1465
	-Ps	.017	.030	.047	.067
Ak 2.440	CFM	820	1095	1370	1645
	-Ps	.028	.050	.078	.113
659-TI					
w/12" collar	CFM	670	890	1115	1340
	-Ps	.084	.147	.230	.330
Ak 2.230	CFM	680	905	1130	1355
	-Ps	.060	.105	.165	.240
w/14" collar	CFM	695	930	1160	1390
	-Ps	.039	.068	.106	.155
Ak 2.320	CFM	770	1025	1280	1535
	-Ps	.098	.170	.265	.380
w/16" collar	CFM	775	1035	1295	1555
	-Ps	.076	.125	.200	.283
Ak 2.590	CFM	790	1050	1315	1580
	-Ps	.055	.094	.145	.210

Note: Tested without filters. Typical capacity is 2 CFM per square inch of nominal filter area. Recommended face velocity is 300-450 FPM. Velocities higher will decrease filter performance, increase flow resistance, and possibly be of noise concern. Velocity measured 1" from face.

96AFBT/96AFBTI

Face Velocity		300	400	500	600	700
20 x 20	CFM	675	900	1125	1350	1575
	Static Pressure (in W.C.)	-0.024	-0.042	-0.065	-0.094	-0.128
Ak 2.25	CFM	740	980	1225	1470	1715
	Total Pressure (in W.C.)	-0.018	-0.032	-0.050	-0.072	-0.098

Note: Tested without filters. Typical capacity is 2 CFM per square inch of nominal filter area. Recommended face velocity is 300-450 FPM. Velocities higher will decrease filter performance, increase flow resistance, and possibly be of noise concern. Velocity measured 1" from face.

RE5T/RE5TI REF5T/REF5TI Rezzin Egg Crate RHF45T RH45T

Average Face Velocity		300	400	500	600	700	800	900	1000
RE5T/RE5TI									
22 x 22	CFM	942	1256	1570	1884	2198	4464	5022	5320
	-Ps	.006	.001	.016	.022	.031			
Ak 3.14	CFM	2004	2672	3340	4008	4676			
	-Ps	.006	.001	.016	.022	.031			
RH45T									
22 x 22	CFM	785	1045	1305	1565	1825			
	-Ps	.015	.030	.043	.062	.084			
Ak 2.610	CFM	1635	2180	2725	3270	3815			
	-Ps	.006	.001	.016	.022	.031			
REF5T*/REF5TI*									
20 x 20	CF	771	1028	1285	1542	1799			
	-Ps	.003	.006	.010	.014	.019			
Ak 2.57	CFM	1674	2232	2790	3348	3906			
	-Ps	.003	.006	.009	.013	.018			
Rezzin Egg Crate									
20 x 20	CFM	420	560	700	840	980			
	-Ps	.004	.008	.013	.018	.025			
Ak 1.400	CFM	650	870	1085	1300	1520			
	-Ps	.015	.025	.040	.060	.080			
Ak 2.170	CFM	1430	1910	2385	2860	3340			
	-Ps	.015	.024	.039	.058	.078			

Note: Tested without filters. Typical capacity is 2 CFM per square inch of nominal filter area. Recommended face velocity is 300-450 FPM. Velocities higher will decrease filter performance, increase flow resistance, and possibly be of noise concern. Velocity measured 1" from face.

441 & 445

Neck Velocity		250	350	450	550	650	750	850	1000	1200
6"	CFM	50	70	90	110	130	145	165	195	235
	Diameter									
	Ps	.004	.009	.014	.021	.029	.036	.046	.065	.092
Ak .370	CFM	5.5	7.0	9.5	11.0	14.0	16.0	18.0	22.0	24.0
	441 Throw									
	445 Throw	4.0	5.0	6.5	8.0	10.0	11.0	13.0	15.0	17.0
8"	CFM	85	120	155	190	225	260	295	350	420
	Diameter									
	Ps	.006	.011	.018	.027	.037	.050	.064	.090	.127
Ak 450	CFM	7.0	10.0	13.0	16.0	18.0	21.0	25.0	29.0	31.0
	441 Throw									
	445 Throw	5.0	7.0	9.5	12.0	13.0	15.0	18.0	21.0	23.0
10"	CFM	135	190	245	300	355	410	465	545	655
	Diameter									
	Ps	.009	.018	.030	.044	.062	.082	.105	.145	.212
Ak .530	CFM	9.0	12.0	16.0	20.0	24.0	27.0	30.0	32.0	34.0
	441 Throw									
	445 Throw	6.5	9.0	11.0	14.0	17.0	19.0	21.0	23.0	24.0
12"	CFM	195	275	355	430	510	590	670	785	940
	Diameter									
	Ps	.013	.026	.044	.064	.090	.120	.155	.215	.300
Ak .590	CFM	10.0	13.0	19.0	25.0	30.0	32.0	33.0	44.0	35.0
	441 Throw									
	445 Throw	7.5	9.0	14.0	17.0	21.0	23.0	24.0	25.0	26.0
14"	CFM	265	375	480	590	695	800	910	1070	1285
	Diameter									
	Ps	.018	.036	.059	.089	.125	.165	.210	.295	.410
Ak .640	CFM	8.0	13.0	22.0	26.0	28.0	30.0	31.0	32.0	33.0
	441 Throw									
	445 Throw	6.0	10.0	16.0	20.0	22.0	24.0	26.0	28.0	30.0

Note: The use of a balancing hood is recommended to balance the system.

NC is based on 10dB room attenuation (Re: 10⁻¹² watts) ASHRAE 36-72.
Terminal Velocity of 75 FPM

442, 443 & 444 SurfAire®

Neck Velocity		250	350	450	550	650	750	850	1000	1200
6"	CFM	50	70	90	110	130	145	165	195	235
	Diameter									
	Ps	.004	.009	.014	.021	.029	.036	.046	.065	.094
Ak 430	CFM	3.0	3.5	4.5	6.0	7.5	8.0	9.0	11.0	12.0
	444 Throw									
	443 Throw*	3.0/4.0	3.5/5.0	4.5/6.5	6.0/8.0	7.5/10.0	8.0/11.0	9.0/13.0	11.0/15.0	12.0/17.0
8"	CFM	85	120	155	190	225	260	295	350	420
	Diameter									
	Ps	.006	.012	.019	.029	.040	.054	.070	.098	.140
Ak 530	CFM	4.0	5.0	6.5	8.0	9.5	11.0	13.0	15.0	17.0
	444 Throw									
	443 Throw*	4.0/5.5	5.0/7.0	6.5/9.0	8.0/11.0	9.5/14.0	11.0/16.0	13.0/19.0	15.0/21.0	17.0/23.0
10"	CFM	135	190	245	300	355	410	465	545	655
	Diameter									
	Ps	.009	.017	.028	.043	.069	.098	.130	.180	.250
Ak 620	CFM	4.0	6.0	8.0	10.0	12.0	13.0	15.0	18.0	19.0
	444 Throw									
	443 Throw*	4.0/6.0	6.0/8.0	8.0/11.0	10.0/14.0	12.0/17.0	13.0/19.0	15.0/21.0	18.0/25.0	19.0/26.0
12"	CFM	195	275	355	430	510	590	670	785	940
	Diameter									
	Ps	.012	.024	.040	.060	.082	.110	.142	.195	.275
Ak 700	CFM	5.0	7.5	10.0	11.5	14.0	16.0	18.0	19.0	20.0
	444 Throw*									
	443 Throw*	5.0/8.5	7.5/11.0	10.0/14.0	11.5/17.0	14.0/19.0	16.0/23.0	18.0/25.0	19.0/26.0	20.0/27.0
14"	CFM	265	375	480	590	695	800	910	1070	1285
	Diameter									
	Ps	.015	.031	.050	.075	.105	.137	.177	.245	.350
Ak 750	CFM	6.0	9.0	11.0	14.0	17.0	19.0	20.0	22.0	24.0
	444 Throw									
	443 Throw*	6.0/8.5	9.0/13.0	11.0/16.0	14.0/20.0	17.0/24.0	19.0/26.0	20.0/27.0	22.0/28.0	24.0/29.0

Note: The use of a balancing hood is recommended to balance the system.

NC is based on 10dB room attenuation (Re: 10⁻¹² watts) ASHRAE 36-72.
Terminal Velocity of 75 FPM



673T, 673TI, 673TPI R6

6"	CFM	100	150	200	225	250	275	300
	NC	<20	<20	21	24	27	30	32
Ak .730	Static Pressure	-.057	-.127	-.226	-.287	-.354	-.428	-.509
	CFM	150	200	250	300	400	500	550
8"	CFM	<20	<20	<20	<20	25	31	36
	NC	<20	<20	<20	<20	25	31	36
Ak .795	Static Pressure	-.040	-.072	-.112	-.161	-.287	-.448	-.542
	CFM	300	400	500	600	700	800	850
10"	CFM	<20	<20	<20	24	28	33	35
	NC	<20	<20	<20	24	28	33	35
Ak .880	Static Pressure	-.066	-.117	-.183	-.264	-.359	-.469	-.530
	CFM	400	500	600	700	800	1000	1200
12"	CFM	<20	<20	<20	20	22	28	34
	NC	<20	<20	<20	20	22	28	34
Ak .980	Static Pressure	-.057	-.088	-.127	-.173	-.226	-.354	-.509
	CFM	600	700	800	1000	1200	1400	1600
14"	CFM	<20	<20	<20	20	24	28	34
	NC	<20	<20	<20	20	24	28	34
Ak 1.105	Static Pressure	-.069	-.094	-.122	-.191	-.275	-.374	-.489
	CFM	800	1000	1200	1600	1800	2000	2200
16"	CFM	<20	<20	<20	25	28	31	36
	NC	<20	<20	<20	25	28	31	36
Ak 1.240	Static Pressure	-.072						