

**659T/659TI/PFT/PFTI Series Performance (Page 53, 56)**

Average Face Velocity		300	400	500	600
659T	CFM	730	975	1220	1465
Ak 2.440	-Ps	.017	.030	.047	.067
PFT	CFM	820	1095	1370	1645
Ak 2.740	-Ps	.028	.050	.078	.113
659-TI					
w/12" collar	CFM	670	890	1115	1340
Ak 2.230	-Ps	.084	.147	.230	.330
w/14" collar	CFM	680	905	1130	1355
Ak 2.260	-Ps	.060	.105	.165	.240
w/16" collar	CFM	695	930	1160	1390
Ak 2.320	-Ps	.039	.068	.106	.155
PFTI					
w/12" collar	CFM	770	1025	1280	1535
Ak 2.320	-Ps	.098	.170	.265	.380
w/14" collar	CFM	775	1035	1295	1555
Ak 2.590	-Ps	.076	.125	.200	.283
w/16" collar	CFM	790	1050	1315	1580
Ak 2.630	-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 (Page 54, 55)**

Face Velocity		300	400	500	600	700
20 x 20	CFM	524	698	873	1048	1222
Ak 1.750	Static Pressure (in W.C.)	-0.024	-0.042	-0.065	-0.094	-0.128
	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 (Page 58)**

**REF5T/REF5TI (Page 56)**

**RZREF5T (Page 58)**

**RHF45T (Page 55)**

Average Face Velocity		300	400	500	600	700
RE5T/RE5TI						
22 x 22	CFM	725	970	1210	1450	1695
Ak 2.420	-Ps	.004	.006	.010	.014	.020
46 x 22						
	CFM	1520	2024	2530	3035	3540
Ak 5.060	-Ps	.003	.006	.010	.012	.018
RH45T						
22 x 22	CFM	785	1045	1305	1565	1825
Ak 2.610	-Ps	.015	.030	.043	.062	.084
46 x 22						
	CFM	1635	2180	2725	3270	3815
Ak 5.460	-Ps	.015	.030	.040	.059	.081
REF5T*/REF5TI*						
20 x 20	CFM	600	800	1000	1200	1400
Ak 2.000	-Ps	.003	.006	.010	.014	.019
44 x 20						
	CFM	1320	1760	2200	2640	3080
Ak 4.400	-Ps	.003	.006	.009	.013	.018
RZREF5T						
20 x 20	CFM	420	560	700	840	980
Ak 1.400	-Ps	.004	.008	.013	.018	.025
RHF45T*						
20 x 20	CFM	650	870	1085	1300	1520
Ak 2.170	-Ps	.015	.025	.040	.060	.080
44 x 20						
	CFM	1430	1910	2385	2860	3340
Ak 4.770	-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 (Page 59)**

Neck Velocity		250	350	450	550	650	750	850	1000	1200
6" Diameter		CFM	50	70	90	110	130	145	165	195
	Ps	.004	.009	.014	.021	.029	.036	.046	.065	.092
	NC	<20	<20	<20	<20	<20	22	26	33	36
Ak .370	441 Throw	5.5	7.0	9.5	11.0	14.0	16.0	18.0	22.0	24.0
Ak .430	445 Throw	4.0	5.0	6.5	8.0	10.0	11.0	13.0	15.0	17.0
8" Diameter		CFM	85	120	155	190	225	260	295	350
	Ps	.006	.011	.018	.027	.037	.050	.064	.090	.127
	NC	<20	<20	<20	<20	22	27	33	35	38
Ak .450	441 Throw	7.0	10.0	13.0	16.0	18.0	21.0	25.0	29.0	31.0
Ak .530	445 Throw	5.0	7.0	9.5	12.0	13.0	15.0	18.0	21.0	23.0
10" Diameter		CFM	135	190	245	300	355	410	465	545
	Ps	.009	.018	.030	.044	.062	.082	.105	.145	.212
	NC	<20	<20	<20	24	31	34	37	42	44
Ak .530	441 Throw	9.0	12.0	16.0	20.0	24.0	27.0	30.0	32.0	34.0
Ak .620	445 Throw	6.5	9.0	11.0	14.0	17.0	19.0	21.0	23.0	24.0
12" Diameter		CFM	195	275	355	430	510	590	670	785
	Ps	.013	.026	.044	.064	.090	.120	.155	.215	.300
	NC	<20	<20	26	33	38	42	44	46	48
Ak .590	441 Throw	10.0	13.0	19.0	25.0	30.0	32.0	33.0	34.0	35.0
Ak .700	445 Throw	7.5	9.0	14.0	17.0	21.0	23.0	24.0	25.0	26.0
14" Diameter		CFM	265	375	480	590	695	800	910	1070
	Ps	.018	.036	.059	.089	.125	.165	.210	.295	.410
	NC	<20	22	29	36	42	>45	>45	>45	>45
Ak .640	441 Throw	8.0	13.0	22.0	26.0	28.0	30.0	31.0	32.0	33.0
Ak .750	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<sup>-12</sup> watts) ASHRAE 36-72. Terminal Velocity of 75 FPM

**442, 443 & 444 SurfAire® (Page 59)**

Neck Velocity		250	350	450	550	650	750	850	1000	1200
6" Diameter		CFM	50	70	90	110	130	145	165	195
	Ps	.004	.009	.014	.021	.029	.036	.046	.065	.094
	NC	<20	<20	<20	<20	<20	23	27	31	35
Ak .430	444 Throw	3.0	3.5	4.5	6.0	7.5	8.0	9.0	11.0	12.0
Ak .430	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
Ak .430	442 Throw	4.0	5.0	6.5	8.0	10.0	11.0	13.0	15.0	17.0
8" Diameter		CFM	85	120	155	190	225	260	295	350
	Ps	.006	.012	.019	.029	.040	.054	.070	.098	.140
	NC	<20	<20	<20	<20	21	26	31	34	37
Ak .530	444 Throw	4.0	5.0	6.5	8.0	9.5	11.0	13.0	15.0	17.0
Ak .530	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
Ak .530	442 Throw	5.5	7.0	9.0	11.0	14.0	16.0	19.0	21.0	23.0
10" Diameter		CFM	135	190	245	300	355	410	465	545
	Ps	.009	.017	.028	.043	.069	.098	.130	.180	.255
	NC	<20	<20	<20	22	29	35	38	42	46
Ak .620	444 Throw	4.0	6.0	8.0	10.0	12.0	13.0	15.0	18.0	19.0
Ak .620	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
Ak .620	442 Throw	6.0	8.0	11.0	14.0	17.0	19.0	21.0	25.0	26.0
12" Diameter		CFM	195	275	355	430	510	590	670	785
	Ps	.012	.024	.040	.059	.082	.110	.145	.195	.275
	NC	<20	<20	22	28	35	39	44	47	52
Ak .700	444 Throw	5.0	7.5	10.0	11.5	14.0	16.0	18.0	19.0	20.0
Ak .700	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	18.0/26.0	19.0/26.0	20.0/27.0
Ak .700	442 Throw	8.5	11.0	14.0	17.0	19.0	23.0	25.0	26.0	27.0
14" Diameter		CFM	265	375	480	590	695	800	910	1070
	Ps	.015	.031	.050	.075	.105	.137	.177	.245	.350
	NC	<20	21	27	31	36	40	45	49	53
Ak .750	444 Throw	6.0	9.0	11.0	14.0	17.0	19.0	20.0	22.0	24.0
Ak .750	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
Ak .750	442 Throw	8.5	13.0	16.0	20.0	24.0	26.0	27.0	28.0	29.0

Note: The use of a balancing hood is recommended to balance the system. NC is based on 10dB room attenuation (Re: 10<sup>-12</sup> watts) ASHRAE 36-72. Terminal Velocity of 75 FPM



**REN4 (Page 59)**

Neck Velocity		180	220	300	350	400	450	500	580	650	700
6" Diameter		CFM	35	45	60	70	80	90	100	115	135
	Ps	.002	.003	.004	.006	.008	.010	.012	.015	.020	.022
	NC	<20	<20	<20	<20	<20	<20	20	22	26	30
Ak .430	Throw	3.0	3.5	4.5	5.5	6.5	7.5	8.0	9.0	11.0	11.0
8" Diameter		CFM	65	75	105	120	140	155	175	200	225
	Ps	.002	.003	.006	.008	.010	.013	.016	.021	.027	.032
	NC	<20	<20	<20	<20	<20	22	25	30	35	38
Ak .530	Throw	4.0	5.0	6.0	7.0	8.5	9.5	11.0	12.0	13.0	15.0
10" Diameter		CFM	100	120	165	190	220	245	275	315	355
	Ps	.003	.005	.009	.011	.015	.019	.024	.031	.040	.045
	NC	<20	<20	<20	<20	20	23	27	33	35	39
Ak .620	Throw	4.0	5.5	7.0	8.0	9.5	11.0	12.0	13.0	15.0	16.0
12" Diameter		CFM	140	175	235	275	315	355	395	455	510