

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

Average Face Velocity		300	400	500	600
<b>659T</b>	CFM	730	975	1220	1465
Ak 2.440	-Ps	.017	.030	.047	.067
<b>PFT</b>	CFM	820	1095	1370	1645
Ak 2.740	-Ps	.028	.050	.078	.113
<b>659-TI</b>					
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
<b>PFTI</b>					
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
<b>RE5T/RE5TI</b>						
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
<b>RH45T</b>						
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
<b>REF5T*/REF5TI*</b>						
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
<b>RZREF5T</b>						
20 x 20	CFM	420	560	700	840	980
Ak 1.400	-Ps	.004	.008	.013	.018	.025
<b>RHF45T*</b>						
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	235
	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	420
	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	655
	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	940
	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	1285
	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	235
	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	420
	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	655
	Ps	.009	.017	.028	.043	.069	.098	.127	.170	.235
	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	190	245	355	450	530	590	670	785	940
	Ps	.012	.024	.040	.059	.082	.110	.142	.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	1285
	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	130	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	245
	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	380
	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						