

659T/659TI/PFT/PFTI Series Performance (Page 87, 90)

		300	400	500	600	700	800
659T	CFM	730	975	1220	1465	1710	1950
Ak 2.440	-Ps	.017	.030	.047	.067	.090	.120
PFT	CFM	820	1095	1370	1645	1920	2190
Ak 2.740	-Ps	.028	.050	.078	.113	.152	.200
659-TI							
w/12" collar	CFM	670	890	1115	1340	1560	1785
Ak 2.230	-Ps	.084	.147	.230	.330	.450	.590
w/14" collar	CFM	680	905	1130	1355	1580	1810
Ak 2.260	-Ps	.060	.105	.165	.240	.330	.420
w/16" collar	CFM	695	930	1160	1390	1625	1855
Ak 2.320	-Ps	.039	.068	.106	.155	.210	.275
PFTI							
w/12" collar	CFM	770	1025	1280	1535	1790	2050
Ak 2.320	-Ps	.098	.170	.265	.380	.520	.680
w/14" collar	CFM	775	1035	1295	1555	1815	207
Ak 2.590	-Ps	.076	.125	.200	.283	.390	.510
w/16" collar	CFM	790	1050	1315	1580	1840	2105
Ak 2.630	-Ps	.055	.094	.145	.210	.285	.350

Note: Filter grille performance limited by filter capacity rating.
2 CFM per square inch of gross filter area is typical.

96AFBT/96AFBTI (Page 88-89)

		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

T-Bar Return Air Grilles and Filter Grilles (Page 89-92)

		300	400	500	600	700	800	900	1000
RE5T/RE5TI									
22 x 22	CFM	725	970	1210	1450	1695	1935	2180	2420
Ak 2.420	-Ps	.004	.006	.010	.014	.020	.025	.031	.040
46 x 22	CFM	1520	2024	2530	3035	3540	4050	4550	5060
Ak 5.060	-Ps	.003	.006	.010	.012	.018	.024	.029	.036
RH45T									
22 x 22	CFM	785	1045	1305	1565	1825	2090	2350	2610
Ak 2.610	-Ps	.015	.030	.043	.062	.084	.120	.140	.170
46 x 22	CFM	1635	2180	2725	3270	3815	4360	4905	5450
Ak 5.460	-Ps	.015	.030	.040	.059	.081	.116	.136	.165
REF5T*/REF5TI*									
20 x 20	CFM	600	800	1000	1200	1400	1600	1800	2000
Ak 2.000	-Ps	.003	.006	.010	.014	.019	.024	.030	.037
44 x 20	CFM	1320	1760	2200	2640	3080	3520	3960	4400
Ak 4.400	-Ps	.003	.006	.009	.013	.018	.024	.030	.036
RHF45T*									
20 x 20	CFM	650	870	1085	1300	1520	1735	1955	2170
Ak 2.170	-Ps	.015	.025	.040	.060	.080	.105	.135	.152
44 x 20	CFM	1430	1910	2385	2860	3340	3815	4295	4770
Ak 4.770	-Ps	.015	.024	.039	.058	.078	.103	.132	.148

* Tested without filters. Typical disposable 1-inch filter capacity is 2 CFM per square inch of gross filter area. Recommended velocity is 300-400 FPM. Velocities higher than 500 FPM will decrease filter performance, increase flow resistance, and possibly blow off agglomerates of collected dirt. Velocity measured 1" from face.

REN4 (Page 93)

		180	220	300	350	400	450	500	580	650	700
6" Diameter											
Ak .430	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
	Throw	3.0	3.5	4.5	5.5	6.5	7.5	8.0	9.0	11.0	11.0
8" Diameter											
Ak .530	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
	Throw	4.0	5.0	6.0	7.0	8.5	9.5	11.0	12.0	13.0	15.0
10" Diameter											
Ak .620	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
	Throw	4.0	5.5	7.0	8.0	9.5	11.0	12.0	13.0	15.0	16.0
12" Diameter											
Ak .700	CFM	140	175	235	275	315	355	395	455	510	550
	Ps	.005	.007	.013	.018	.023	.029	.036	.048	.061	.071
	NC	<20	<20	<20	<20	21	24	27	33	36	40
	Throw	4.5	5.5	7.0	8.0	10.0	11.0	12.0	14.0	15.0	17.0
14" Diameter											
Ak .750	CFM	190	235	320	375	430	480	535	620	695	750
	Ps	.007	.011	.020	.027	.036	.044	.055	.074	.094	.107
	NC	<20	<20	<20	<20	20	24	28	32	35	40
	Throw	4.5	5.5	7.0	8.5	10.0	11.0	12.0	14.0	16.0	17.0

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

441 and 445 (Page 93)

		250	350	450	550	650	750	850	1000	1200
6" Diameter										
Ak .370	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
	Throw	5.5	7.0	9.5	11.0	14.0	16.0	18.0	22.0	24.0
Ak .430	CFM	4.0	5.0	6.5	8.0	10.0	11.0	13.0	15.0	17.0
8" Diameter										
Ak .450	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
	Throw	7.0	10.0	13.0	16.0	18.0	21.0	25.0	29.0	31.0
Ak .530	CFM	5.0	7.0	9.5	12.0	13.0	15.0	18.0	21.0	23.0
10" Diameter										
Ak .530	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
	Throw	9.0	12.0	16.0	20.0	24.0	27.0	30.0	32.0	34.0
Ak .620	CFM	6.5	9.0	11.0	14.0	17.0	19.0	21.0	23.0	24.0
12" Diameter										
Ak .590	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
	Throw	10.0	13.0	19.0	25.0	30.0	32.0	33.0	34.0	35.0
Ak .700	CFM	7.5	9.0	14.0	17.0	21.0	23.0	24.0	25.0	26.0
14" Diameter										
Ak .640	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
	Throw	8.0	13.0	22.0	26.0	28.0	30.0	31.0	32.0	33.0
Ak .750	CFM	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 and 444 SurfAir® (Page 93)

		250	350	450	550	650	750	850	1000	1200
6" Diameter										
Ak .430	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	22	27	31	35
	Throw	3.0	3.5	4.5	6.0	7.5	8.0	9.0	11.0	12.0
Ak .430	444 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										
Ak .530	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
	Throw	4.0	5.0	6.5	8.0	9.5	11.0	13.0	15.0	17.0
Ak .530	444 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	2