



USAIRE

Performance Data

MODEL 1410F

Model 1410F

Stamped Face Return Air Filter Grille

Size	Area Ak	Inlet Velocity	200	300	400	500	600	700	800	900	1000
		PS	.004	.008	.014	.022	.032	.044	.057	.072	.089
10x10	.69	CFM	139	208	278	347	417	486	556	625	694
	.69	NC	16	20	26	31	37	44	50	57	64
12x8	.67	CFM	133	200	267	333	400	467	533	600	667
	.65	NC	15	20	25	31	37	43	50	57	64
12x12	1.00	CFM	200	300	400	500	600	700	800	900	1000
	.98	NC	15	20	25	31	37	43	50	57	64
14x6	.58	CFM	117	175	233	292	350	408	467	525	583
	.57	NC	<15	20	25	31	37	43	49	56	63
14x8	.78	CFM	156	233	311	389	467	544	622	700	778
	.76	NC	16	21	26	32	38	44	51	58	65
14x14	1.36	CFM	272	408	544	681	817	953	1089	1225	1361
	1.33	NC	19	23	29	34	40	47	53	60	>65
16x16	1.78	CFM	356	533	711	889	1067	1244	1422	1600	1778
	1.74	NC	20	24	30	35	41	48	54	61	>65
18x12	1.50	CFM	300	450	600	750	900	1050	1200	1350	1500
	1.47	NC	19	24	29	35	41	47	54	60	>65
18x18	2.25	CFM	450	675	900	1125	1350	1575	1800	2025	2250
	2.21	NC	21	25	31	36	42	49	55	62	>65
20x10	1.36	CFM	278	417	556	694	833	972	1111	1250	1389
	1.36	NC	19	23	29	34	40	47	53	6	>65
20x12	1.67	CFM	333	500	667	833	1000	1167	1333	1500	1667
	1.63	NC	19	24	29	35	41	47	54	61	>65
20x14	1.94	CFM	389	583	778	972	1167	1361	1556	1750	1944
	1.91	NC	20	25	30	36	42	48	55	62	>65
20x16	2.22	CFM	444	667	889	1111	1333	1556	1778	2000	2222
	2.18	NC	21	25	31	36	42	49	55	62	>65
20x18	2.5	CFM	500	750	1000	1250	1500	1750	2000	2250	2500
	2.45	NC	21	26	31	37	43	49	56	63	>65
20x20	2.78	CFM	556	833	1111	1389	1667	1944	2222	2500	2778
	2.72	NC	22	26	32	37	43	50	56	63	>65
22x22	3.36	CFM	672	1008	1344	1681	2017	2353	2689	3025	3361
	3.29	NC	22	27	32	38	44	50	57	64	>65
24x8	1.33	CFM	267	400	533	667	800	933	1067	1200	1333
	1.31	NC	18	23	28	34	40	46	53	60	>65
24x10	1.67	CFM	333	500	667	833	1000	1167	1333	1500	1667
	1.63	NC	19	24	29	35	41	47	54	61	>65
24x12	2.00	CFM	400	600	800	1000	1200	1400	1600	1800	2000
	1.96	NC	20	25	30	36	42	48	55	62	>65
24x14	2.33	CFM	467	700	933	1167	1400	1633	1867	2100	2333
	2.29	NC	21	26	31	37	43	49	55	62	>65
24x16	2.67	CFM	533	800	1067	1333	1600	1867	2133	2400	2667
	2.61	NC	21	26	31	37	43	49	56	63	>65
24x18	3.00	CFM	600	900	1200	1500	1800	2100	2400	2700	3000
	2.94	NC	22	27	32	38	44	50	57	63	>65
24x20	3.33	CFM	667	1000	1333	1667	2000	2333	2667	3000	3333
	3.27	NC	22	27	32	38	44	50	57	64	>65
Throw			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Size	Area Ak	Inlet Velocity	200	300	400	500	600	700	800	900	1000
		PS	.005	.011	.020	.031	.045	.061	.080	.101	.125
24x24	4.00	CFM	800	1200	1600	2000	2400	2800	3200	3600	4000
	3.92	NC	23	28	33	39	45	51	58	65	>65
25x12	2.08	CFM	417	625	833	1042	1250	1458	1667	1875	2083
	2.04	NC	20	25	30	36	42	48	55	62	>65
25x14	2.43	CFM	486	729	972	1215	1458	1701	1944	2188	2431
	2.38	NC	21	26	31	37	43	49	56	62	>65
25x16	2.78	CFM	556	833	1111	1389	1667	1944	2222	2500	2778
	2.72	NC	22	26	32	37	43	50	56	63	>65
25x18	3.13	CFM	625	938	1250	1563	1875	2188	2500	2813	3125
	3.06	NC	22	27	32	38	44	50	57	64	>65
25x20	3.47	CFM	694	1042	1389	1736	2083	2431	2778	3125	3472
	3.40	NC	23	27	33	38	44	51	57	64	>65
25x25	4.34	CFM	868	1302	1736	2170	2604	3038	3472	3906	4340
	4.25	NC	24	28	34	39	45	52	58	>65	>65
28x14	2.72	CFM	544	817	1089	1361	1633	1906	2178	2450	2722
	2.67	NC	22	26	32	37	43	50	56	63	>65
30x6	1.25	CFM	250	375	500	625	750	875	1000	1125	1250
	1.23	NC	18	23	28	34	40	46	53	60	>65
30x10	2.08	CFM	417	625	833	1042	1250	1458	1667	1875	2083
	2.04	NC	20	25	30	36	42	48	55	62	>65
30x12	2.5	CFM	500	750	1000	1250	1500	1750	2000	2250	2500
	2.45	NC	21	26	31	37	43	49	56	63	>65
30x14	2.92	CFM	583	875	1167	1458	1750	2042	2333	2625	2917
	2.86	NC	22	27	32	38	44	50	56	63	>65
30x16	3.33	CFM	667	1000	1333	1667	2000	2333	2667	3000	3333
	3.27	NC	22	27	32	38	44	50	57	64	>65
30x18	3.75	CFM	750	1125	1500	1875	2250	2625	3000	3375	3750
	3.68	NC	23	28	33	39	45	51	58	64	>65
30x20	4.17	CFM	833	1250	1667	2083	2500	2917	333	3750	4167
	4.08	NC	23	28	33	39	45	51	58	65	>65
30x24	5.00	CFM	1000	1500	2000	2500	3000	3500	4000	4500	5000
	4.90	NC	24	29	34	40	46	52	59	>65	>65
30x25	5.21	CFM	1042	1563	2083	2604	3125	3646	4167	4688	5208
	5.10	NC	24	29	34	40	46	52	59	>65	>65
30x30	6.25	CFM	1250	1875	2500	3125	3750	4375	5000	5625	6250
	6.13	NC	25	30	35	41	53	60	>65	>65	>65
32x25	5.56	CFM	1111	1667	2222	2778	3333	3889	4444	5000	5556
	5.44	NC	25	29	35	40	46	53	59	>65	>65
36x12	3.00	CFM	600	900	1200	1500	1800	2100	2400	2700	3000
	2.94	NC	22	27	32	38	44	50	57	63	>65
36x18	4.50	CFM	900	1350	1800	2250	2700	3150	3600	4050	4500
	4.41	NC	24	28	34	39	45	52	58	>65	>65
36x20	5.00	CFM	1000	1500	2000	2500	3000	3500	4000	4500	5000
	4.90	NC	24	29	34	40	46	52	59	>65	>65
36x24	6.00	CFM	1200	1800	2400	3000	3600	4200	4800	5400	6000
	5.88	NC	25	30	35	41	47	53	60	>65	>65
Throw			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes

All Units have been tested in accordance with ANSI / ASHRAE 70-2006. Data in table is derived from such testing

Ps - Static pressure required to obtain listed cfm, units of inches water gauge (in. wg.)

NC - Calculated noise criteria using 10 dB per octave room attenuation (dimensionless).

Throw - Non-isothermal throw, in feet, for a terminal velocity of 50 fpm

For reverse size grilles use the performance as per the example below:

Example: 10 X 24 use the performance for a 24 X 10

Inlet Velocity = fpm (Feet Per Minute)

For sizes not shown, refer to online tools **GRD Selection Program** performance calculator on Home Page