

PERFORMANCE DATA

60 / 60FH – 3/4 in. blade spacing, 45° deflection

Core Area (sq. ft.)	Nominal Size	Core Velocity (fpm) Velocity Pressure (in. w.g.) Neg. Static Pressure (in. w.g.)	NC20				NC30				NC40				
			200	300	400	500	600	700	800	900	1000	1100			
			0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062	0.075			
0.15	7 x 4 6 x 5	Flow Rate (cfm)	30	45	60	75	90	105	120	135	150	165			
		Sound (NC)	-	-	18	24	29	34	38	41	44	47			
0.18	8 x 4 7 x 5	Flow Rate (cfm)	36	54	72	90	108	126	144	162	180	198			
		Sound (NC)	-	-	19	25	30	35	39	42	45	48			
0.22	10 x 4 8 x 5	Flow Rate (cfm)	44	66	88	110	132	154	176	198	220	242			
		Sound (NC)	-	-	20	26	31	36	40	43	46	49			
0.26	12 x 4 10 x 5	Flow Rate (cfm)	52	78	104	130	156	182	208	234	260	286			
		Sound (NC)	-	-	21	27	33	37	41	44	47	50			
0.30	14 x 4	Flow Rate (cfm)	60	90	120	150	180	210	240	270	300	330	NC50		
		Sound (NC)	-	-	22	28	34	38	42	45	48	51			
0.34	16 x 4 12 x 5	Flow Rate (cfm)	68	102	136	170	204	238	272	306	340	374			
		Sound (NC)	-	15	23	29	35	39	43	46	49	52			
0.39	18 x 4 14 x 5	Flow Rate (cfm)	78	117	156	195	234	273	312	351	390	429			
		Sound (NC)	-	16	24	30	36	40	44	47	50	53			
0.46	20 x 4 16 x 5	Flow Rate (cfm)	92	138	184	230	276	322	368	414	460	506			
		Sound (NC)	-	17	25	31	37	41	45	48	51	54			
0.52	24 x 4 18 x 5	Flow Rate (cfm)	104	156	208	260	312	364	416	468	520	572			
		Sound (NC)	-	17	26	32	38	42	46	49	52	55			
0.60	28 x 4 20 x 5	Flow Rate (cfm)	120	180	240	300	360	420	480	540	600	660			
		Sound (NC)	-	18	26	33	38	43	46	50	53	55			
0.69	30 x 4 24 x 5	Flow Rate (cfm)	138	207	276	345	414	483	552	621	690	759			
		Sound (NC)	-	19	27	34	39	43	47	51	54	56			
0.81	36 x 4 28 x 5	Flow Rate (cfm)	162	243	324	405	486	567	648	729	810	891			
		Sound (NC)	-	20	28	35	40	44	48	52	55	57			
0.90	40 x 4 30 x 5	Flow Rate (cfm)	180	270	350	450	540	630	720	810	900	990			
		Sound (NC)	-	21	29	35	41	45	49	52	55	58			
1.07	48 x 4 36 x 5	Flow Rate (cfm)	214	321	428	535	642	749	856	963	1070	1177			
		Sound (NC)	-	22	30	36	42	46	50	53	56	59			
1.18	34 x 6 24 x 8	Flow Rate (cfm)	236	354	472	590	708	826	944	1062	1180	1298			
		Sound (NC)	-	23	31	37	42	47	51	54	57	60			
1.60	60 x 4 48 x 5	Flow Rate (cfm)	268	402	536	670	804	938	1072	1206	1340	1474	NC60		
		Sound (NC)	-	23	32	38	43	48	51	55	58	61			
1.80	72 x 4 30 x 8	Flow Rate (cfm)	320	480	640	800	960	1120	1280	1440	1600	1760			
		Sound (NC)	-	24	33	39	44	49	52	56	59	62			
2.08	60 x 5 48 x 6	Flow Rate (cfm)	360	540	720	900	1080	1260	1440	1620	1800	1980			
		Sound (NC)	-	25	33	40	45	50	53	57	60	62			
2.45	72 x 5 60 x 6	Flow Rate (cfm)	416	624	832	1040	1248	1456	1664	1872	2080	2288			
		Sound (NC)	15	26	34	41	46	50	54	58	61	63			
2.75	72 x 6 48 x 8	Flow Rate (cfm)	490	735	980	1225	1470	1715	1960	2205	2450	2695			
		Sound (NC)	16	27	35	42	47	51	55	59	62	64			
2.78	36 x 12 30 x 14	Flow Rate (cfm)	556	834	1112	1390	1668	1946	2224	2502	2780	3058			
		Sound (NC)	16	28	36	43	48	52	56	59	62	65			
3.11	60 x 8 48 x 10	Flow Rate (cfm)	622	933	1244	1555	1866	2177	2488	2799	3110	3421			
		Sound (NC)	17	29	37	43	49	53	57	60	63	66			
3.61	72 x 8 60 x 10	Flow Rate (cfm)	722	1083	1444	1805	2166	2527	2888	3249	3610	3971			
		Sound (NC)	18	30	38	44	49	54	58	61	64	67			
4.29	48 x 14 36 x 18	Flow Rate (cfm)	858	1287	1716	2145	2574	3003	3432	3861	4290	4719			
		Sound (NC)	19	31	39	45	51	55	59	62	65	68			
4.65	72 x 10 48 x 16	Flow Rate (cfm)	930	1395	1860	2325	2790	3255	3720	4185	4650	5115			
		Sound (NC)	20	31	39	46	51	55	59	63	66	68			
5.58	72 x 12 60 x 14	Flow Rate (cfm)	1116	1674	2232	2790	3348	3906	4464	5022	5580	6138			
		Sound (NC)	21	32	40	47	52	57	60	64	67	69			
6.25	72 x 14 60 x 16	Flow Rate (cfm)	1250	1875	2500	3125	3750	4375	5000	5625	6250	6875			
		Sound (NC)	21	33	41	48	53	57	61	64	67	70			

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in cfm.
- All pressures are in in. w.g.
s.p. = static pressure.
- NC values are based on room absorption of 10 dB re 10⁻¹² watts.
- Blanks "-" indicate an NC level below 15.
- Grille tested with damper. Corrections for grille without damper:
— Multiply negative static pressure by 0.77
— Subtract 4 from listed NC.
- The performance tables are based on registers with F border. For ED border, the following correction factors must be applied due to the reduced core area for this border.

Listed Core Area	Multiply Total Pressure	Add NC
.15 - .30	2.5	14
.34 - .90	1.8	10
1.07 - 1.80	1.4	6
2.08 - 6.25	1.2	4

PERFORMANCE DATA

70 / 70FH – 1/2 in. blade spacing, 45° deflection

Core Area (sq. ft.)	Nominal Size	Core Velocity (fpm) Velocity Pressure (in. w.g.) Neg. Static Pressure (in. w.g.)	NC20					NC30					NC40										
			200	300	400	500	600	700	800	900	1000	1100	200	300	400	500	600	700	800	900	1000	1100	
			0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062	0.075	0.014	0.032	0.056	0.088	0.126	0.171	0.224	0.284	0.350	0.424	
0.15	7 x 4 6 x 5	Flow Rate (cfm)	30	45	60	75	90	105	120	135	150	165											
		Sound (NC)	-	-	16	22	26	30	33	36	39	41											
0.18	8 x 4 7 x 5	Flow Rate (cfm)	36	54	72	90	108	126	144	162	180	198											
		Sound (NC)	-	-	17	23	27	31	35	38	40	43											
0.22	10 x 4 8 x 5	Flow Rate (cfm)	44	66	88	110	132	154	176	198	220	242											
		Sound (NC)	-	-	18	24	29	32	36	39	41	44											
0.26	12 x 4 10 x 5	Flow Rate (cfm)	52	78	104	130	156	182	208	234	260	286											
		Sound (NC)	-	-	19	25	30	34	37	40	43	45											
0.3	14 x 4	Flow Rate (cfm)	60	90	120	150	180	210	240	270	300	330											
		Sound (NC)	-	-	20	26	31	34	38	41	43	46											
0.34	16 x 4 12 x 5	Flow Rate (cfm)	68	102	136	170	204	238	272	306	340	374											
		Sound (NC)	-	-	21	27	31	35	39	42	44	47											
0.39	18 x 4 14 x 5	Flow Rate (cfm)	78	117	156	195	234	273	312	351	390	429											
		Sound (NC)	-	15	22	28	32	36	39	42	45	47											
0.46	20 x 4 16 x 5	Flow Rate (cfm)	92	138	184	230	276	322	368	414	460	506											
		Sound (NC)	-	16	23	29	33	37	41	43	46	49											
0.52	24 x 4 18 x 5	Flow Rate (cfm)	104	156	208	260	312	364	416	468	520	572											
		Sound (NC)	-	17	24	29	34	38	41	44	47	49											
0.6	28 x 4 20 x 5	Flow Rate (cfm)	120	180	240	300	360	420	480	540	600	660											
		Sound (NC)	-	17	25	30	35	39	42	45	48	50											
0.69	30 x 4 24 x 5	Flow Rate (cfm)	138	207	276	345	414	483	552	621	690	759											
		Sound (NC)	-	18	26	31	36	40	43	46	49	51											
0.81	36 x 4 28 x 5	Flow Rate (cfm)	162	243	324	405	486	567	648	729	810	891											
		Sound (NC)	-	19	27	32	37	41	44	47	50	52											
0.9	40 x 4 30 x 5	Flow Rate (cfm)	180	270	360	450	540	630	720	810	900	990											
		Sound (NC)	-	20	27	33	37	41	45	48	50	53											
1.07	48 x 4 36 x 5	Flow Rate (cfm)	214	321	428	535	642	749	856	963	1070	1177											
		Sound (NC)	-	21	28	34	39	42	46	49	51	54											
1.18	34 x 6 24 x 8	Flow Rate (cfm)	236	354	472	590	708	826	944	1062	1180	1298											
		Sound (NC)	-	22	29	35	39	43	46	49	52	54											
1.34	60 x 4 48 x 5	Flow Rate (cfm)	268	402	536	670	804	938	1074	1206	1340	1474											
		Sound (NC)	-	23	29	35	40	44	47	50	53	55											
1.6	72 x 4 30 x 8	Flow Rate (cfm)	320	480	640	800	960	1120	1280	1440	1600	1760											
		Sound (NC)	-	24	31	36	41	45	48	51	54	56											
1.8	60 x 5 48 x 6	Flow Rate (cfm)	360	540	720	900	1080	1260	1440	1620	1800	1980											
		Sound (NC)	-	24	32	37	42	46	49	52	55	57											
2.08	72 x 5 60 x 6	Flow Rate (cfm)	416	624	832	1040	1248	1456	1664	1872	2080	2288											
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4. NC values are based on room absorption of 10 dB re 10-12 watts.
5. Blanks "-" indicate an NC level below 15.
6. Grille tested with damper. Corrections for grille without damper:
— Multiply negative static pressure by 0.77
— Subtract 4 from listed NC.
7. The performance tables are based on registers with F border. For ED border, the following correction factors must be applied due to the reduced core area for this border.

Listed Core Area	Multiply Total Pressure	Add NC
.15 - .30	2.6	+12
.34 - .90	1.7	+8
1.07 - 1.80	1.4	+5
2.08 - 6.25	1.2	+3