

PERFORMANCE DATA

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PERFORMANCE DATA

1700 / SUPPLY			NC 20					NC 30				
Core Area, sq. ft.	Nominal Duct Size, inches	Core Vel.	300	400	500	600	700	800	1000	1200	1400	
		Vel. Press.	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	
		Total Pres.	0°	22 1/2°	45°	0°	22 1/2°	45°	0°	22 1/2°	45°	
0.18	8 X 4 7 X 5 6 X 6	cfm	55	70	90	110	125	145	180	215	250	
		NC	—	—	—	12	17	21	27	33	38	
		Throw, ft.	0°	4-7-13	6-8-15	7-12-17	10-14-19	11-15-20	12-16-22	14-17-24	15-19-26	17-21-29
			22 1/2°	3-6-10	5-6-12	6-10-14	7-11-15	8-12-16	10-13-18	11-14-19	12-15-21	14-17-23
			45°	2-3-7	3-4-8	4-5-9	4-7-10	5-7-10	6-8-11	7-9-12	8-10-13	8-10-14
0.26	12 X 4 10 X 5 8 X 6	cfm	80	105	130	155	180	210	260	310	365	
		NC	—	—	—	13	18	22	28	34	39	
		Throw, ft.	0°	5-8-16	7-12-19	10-14-21	11-17-23	13-17-24	15-19-26	17-21-29	19-23-32	20-25-35
			22 1/2°	4-6-13	6-10-15	7-11-17	8-14-18	11-14-19	12-15-21	14-17-23	15-18-26	16-20-22
			45°	3-4-8	4-5-9	4-7-10	5-8-11	6-9-12	7-9-13	8-11-15	9-12-16	10-13-17
0.34	16 X 4 12 X 5 10 X 6	cfm	100	135	170	205	240	270	340	410	475	
		NC	—	—	—	14	19	23	29	35	40	
		Throw, ft.	0°	5-10-18	8-13-21	11-16-24	13-20-26	15-20-28	17-22-30	20-24-33	22-26-37	23-28-40
			22 1/2°	4-7-14	6-11-17	8-13-19	11-16-22	12-16-22	14-18-24	16-19-26	18-21-30	18-22-32
			45°	3-4-9	4-6-11	5-8-12	6-10-13	7-10-14	8-11-15	10-12-17	11-13-18	12-14-20
0.39	18 X 4 14 X 5 12 X 6 8 X 8	cfm	115	155	195	235	275	310	390	470	545	
		NC	—	—	—	15	20	24	30	36	41	
		Throw, ft.	0°	6-10-19	10-14-23	12-17-25	14-20-28	16-22-30	18-23-32	21-26-36	23-27-40	25-30-42
			22 1/2°	5-7-15	7-11-18	10-14-20	11-16-22	13-18-24	15-18-26	17-21-29	18-22-32	20-24-34
			45°	3-5-10	4-6-11	5-8-13	7-11-14	8-11-15	10-12-16	11-13-18	12-14-20	12-15-21
0.52	24 X 4 18 X 5 16 X 6	cfm	155	210	260	310	365	415	520	625	730	
		NC	—	—	11	16	21	25	31	37	42	
		Throw, ft.	0°	7-12-23	11-16-26	14-20-29	16-23-32	19-25-35	21-26-37	24-30-41	27-33-45	29-35-49
			22 1/2°	6-10-18	8-13-21	11-16-23	13-19-26	15-20-28	17-21-30	19-24-33	22-26-36	23-28-39
			45°	3-5-11	5-7-13	6-10-15	8-12-16	10-12-17	11-13-18	12-15-21	13-16-23	14-18-24
0.60	28 X 4 20 X 5 18 X 6 12 X 8 10 X 10	cfm	180	240	300	360	420	480	600	720	840	
		NC	—	—	12	17	22	26	32	38	43	
		Throw, ft.	0°	7-13-24	12-17-28	15-21-31	17-25-34	20-27-37	23-29-40	26-32-45	29-35-48	31-38-52
			22 1/2°	6-11-19	10-14-22	12-17-25	14-20-27	16-22-30	19-23-32	21-26-36	23-28-38	25-30-42
			45°	4-6-12	5-8-14	7-11-16	8-13-17	11-13-19	12-14-20	13-16-22	14-17-24	15-19-26
0.69	30 X 4 24 X 5 20 X 6 14 X 8 12 X 10	cfm	205	275	345	415	485	550	690	830	965	
		NC	—	—	12	17	22	26	32	38	43	
		Throw, ft.	0°	8-14-26	13-18-30	16-23-34	19-27-37	22-29-40	25-31-43	28-34-47	30-38-52	33-40-56
			22 1/2°	6-11-21	11-15-24	13-19-27	15-22-30	18-23-32	20-25-34	22-27-38	24-30-42	26-32-45
			45°	4-6-13	6-10-15	7-12-17	10-14-18	11-14-20	13-15-21	14-17-24	15-19-26	16-20-28
0.81	36 X 4 28 X 5 22 X 6 16 X 8 14 X 10	cfm	245	325	405	485	565	650	810	970	1130	
		NC	—	—	13	18	23	27	33	39	44	
		Throw, ft.	0°	8-15-28	14-20-33	17-24-37	20-29-40	24-31-43	27-33-46	30-37-51	33-41-56	36-44-60
			22 1/2°	6-12-22	11-16-26	14-19-30	16-23-32	19-25-34	22-26-37	24-30-41	26-33-45	29-35-48
			45°	4-7-14	6-10-16	8-13-18	11-15-20	12-15-22	14-17-23	15-19-26	17-20-28	18-22-30
0.90	40 X 4 30 X 5 26 X 6 18 X 8 16 X 10 12 X 12	cfm	270	360	450	540	630	720	900	1080	1260	
		NC	—	—	14	19	24	28	34	40	45	
		Throw, ft.	0°	10-16-30	15-21-34	18-26-39	22-31-42	25-33-45	28-35-48	32-39-55	35-43-59	37-46-63
			22 1/2°	7-13-24	12-17-27	15-21-31	18-25-34	20-26-36	23-28-38	26-31-44	28-34-47	30-37-50
			45°	5-8-15	7-11-17	10-14-19	11-16-21	13-16-23	15-17-24	16-20-27	17-21-29	19-23-32
1.07	48 X 4 36 X 5 30 X 6 18 X 10 14 X 12	cfm	320	430	535	640	750	855	1070	1280	1500	
		NC	—	—	14	19	24	28	34	40	45	
		Throw, ft.	0°	11-17-32	16-23-38	19-30-42	23-35-46	28-36-46	31-38-53	35-43-59	38-46-64	41-50-69
			22 1/2°	8-14-26	13-19-30	15-23-34	19-28-37	22-29-39	24-30-42	28-34-47	30-37-51	33-40-55
			45°	5-8-16	7-12-19	10-15-21	12-18-23	14-18-25	15-19-26	17-21-29	19-23-32	20-25-35
1.18	34 X 6 24 X 8 20 X 10 16 X 12 14 X 14	cfm	355	470	590	710	825	945	1180	1420	1650	
		NC	—	—	14	19	24	28	34	40	45	
		Throw, ft.	0°	11-18-34	16-24-40	20-30-44	24-37-48	29-38-52	33-40-56	36-45-62	40-48-67	43-52-73
			22 1/2°	8-15-27	13-19-32	16-23-35	19-30-38	23-30-42	27-32-45	29-36-50	32-38-50	34-42-58
			45°	5-8-17	8-12-20	11-15-22	13-18-24	14-19-26	16-20-28	18-22-31	20-24-34	21-26-36
1.34	60 X 4 48 X 5 36 X 6 18 X 12 16 X 14	cfm	400	535	670	805	940	1070	1340	1610	1880	
		NC	—	—	15	20	25	29	35	41	46	
		Throw, ft.	0°	12-19-36	17-25-42	21-32-47	25-39-51	30-40-56	34-43-59	39-47-65	42-52-72	45-56-78
			22 1/2°	10-15-29	14-20-34	17-25-38	20-32-41	23-32-45	28-34-47	31-38-52	34-42-58	36-45-62
			45°	6-10-18	8-13-21	11-16-23	13-19-26	15-20-28	17-21-29	19-23-33	21-26-36	23-28-39
1.60	72 X 4 30 X 8 24 X 10 22 X 12 18 X 14 16 X 16	cfm	480	640	800	960	1120	1280	1600	1920	2240	
		NC	—	—	16	21	26	30	36	42	47	
		Throw, ft.	0°	14-21-40	19-28-46	22-34-51	29-41-56	33-43-60	37-46-64	42-51-72	46-56-79	49-61-85
			22 1/2°	11-17-32	15-22-37	19-28-41	23-33-45	27-34-48	30-37-51	34-41-58	37-45-63	39-49-68
			45°	6-11-20	10-14-23	12-17-25	14-21-28	16-22-30	18-23-32	21-26-36	23-28-39	25-30-43
1.80	60 X 5 48 X 6 36 X 8 30 X 10 24 X 12 20 X 14 18 X 16	cfm	540	720	900	1080	1260	1440	1800	2160	2520	
		NC	—	—	17	22	27	31	37	43	48	
		Throw, ft.	0°	14-22-42	20-30-48	25-37-55	31-45-59	34-46-63	39-49-68	45-55-76	48-60-84	52-65-90
			22 1/2°	11-18-34	16-23-38	20-30-44	24-36-47	28-37-50	32-39-54	36-44-61	38-48-67	42-52-72
			45°	7-12-21	10-15-24	13-18-27	15-22-29	17-23-32	20-24-34	22-27-38	24-30-42	26-32-45

NC 40

Performance notes appear at end of table

1700 / SUPPLY

Core Area, sq. ft.	Nominal Duct Size, inches	Core Vel. Vel. Press.	NC 20			NC 30			NC 40			
			300	400	500	600	700	800	1000	1200	1400	
			0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	
2.08	20 X 16 18 X 18 40 X 8 36 X 10 30 X 12 24 X 14	Total Pres.	22 1/2°	0.017	0.028	0.045	0.062	0.084	0.112	0.174	0.252	0.341
			45°	0.019	0.031	0.050	0.068	0.093	0.124	0.192	0.279	0.378
				0.020	0.034	0.054	0.075	0.102	0.136	0.211	0.306	0.415
		Throw, ft.	0°	15-24-45	21-32-52	28-40-58	32-47-63	37-49-68	42-53-73	48-59-82	52-64-90	56-69-97
			22 1/2°	12-19-36	17-25-42	22-32-46	25-37-50	30-39-54	34-42-58	38-47-66	42-51-72	45-55-78
2.45	48 X 8 32 X 12 26 X 14 24 X 16 20 X 18 20 X 20	Total Pres.	22 1/2°	0.017	0.028	0.045	0.062	0.084	0.112	0.174	0.252	0.341
			45°	0.019	0.031	0.050	0.068	0.093	0.124	0.192	0.279	0.378
				0.020	0.034	0.054	0.075	0.102	0.136	0.211	0.306	0.415
		Throw, ft.	0°	15-24-45	21-32-52	28-40-58	32-47-63	37-49-68	42-53-73	48-59-82	52-64-90	56-69-97
			22 1/2°	12-19-36	17-25-42	22-32-46	25-37-50	30-39-54	34-42-58	38-47-66	42-51-72	45-55-78
2.78	36 X 12 30 X 14 26 X 16 24 X 18 22 X 20	Total Pres.	22 1/2°	0.017	0.028	0.045	0.062	0.084	0.112	0.174	0.252	0.341
			45°	0.019	0.031	0.050	0.068	0.093	0.124	0.192	0.279	0.378
				0.020	0.034	0.054	0.075	0.102	0.136	0.211	0.306	0.415
		Throw, ft.	0°	15-24-45	21-32-52	28-40-58	32-47-63	37-49-68	42-53-73	48-59-82	52-64-90	56-69-97
			22 1/2°	12-19-36	17-25-42	22-32-46	25-37-50	30-39-54	34-42-58	38-47-66	42-51-72	45-55-78
3.11	48 X 10 26 X 18 24 X 20 40 X 12 36 X 14 30 X 16	Total Pres.	22 1/2°	0.017	0.028	0.045	0.062	0.084	0.112	0.174	0.252	0.341
			45°	0.019	0.031	0.050	0.068	0.093	0.124	0.192	0.279	0.378
				0.020	0.034	0.054	0.075	0.102	0.136	0.211	0.306	0.415
		Throw, ft.	0°	15-24-45	21-32-52	28-40-58	32-47-63	37-49-68	42-53-73	48-59-82	52-64-90	56-69-97
			22 1/2°	12-19-36	17-25-42	22-32-46	25-37-50	30-39-54	34-42-58	38-47-66	42-51-72	45-55-78
3.61	24 X 24 60 X 10 48 X 12 36 X 16 30 X 18	Total Pres.	22 1/2°	0.017	0.028	0.045	0.062	0.084	0.112	0.174	0.252	0.341
			45°	0.019	0.031	0.050	0.068	0.093	0.124	0.192	0.279	0.378
				0.020	0.034	0.054	0.075	0.102	0.136	0.211	0.306	0.415
		Throw, ft.	0°	15-24-45	21-32-52	28-40-58	32-47-63	37-49-68	42-53-73	48-59-82	52-64-90	56-69-97
			22 1/2°	12-19-36	17-25-42	22-32-46	25-37-50	30-39-54	34-42-58	38-47-66	42-51-72	45-55-78
4.65	72 X 10 48 X 16 36 X 20 30 X 24	Total Pres.	22 1/2°	0.017	0.028	0.045	0.062	0.084	0.112	0.174	0.252	0.341
			45°	0.019	0.031	0.050	0.068	0.093	0.124	0.192	0.279	0.378
				0.020	0.034	0.054	0.075	0.102	0.136	0.211	0.306	0.415
		Throw, ft.	0°	15-24-45	21-32-52	28-40-58	32-47-63	37-49-68	42-53-73	48-59-82	52-64-90	56-69-97
			22 1/2°	12-19-36	17-25-42	22-32-46	25-37-50	30-39-54	34-42-58	38-47-66	42-51-72	45-55-78
5.58	72 X 12 60 X 14 48 X 18 36 X 24	Total Pres.	22 1/2°	0.017	0.028	0.045	0.062	0.084	0.112	0.174	0.252	0.341
			45°	0.019	0.031	0.050	0.068	0.093	0.124	0.192	0.279	0.378
				0.020	0.034	0.054	0.075	0.102	0.136	0.211	0.306	0.415
		Throw, ft.	0°	15-24-45	21-32-52	28-40-58	32-47-63	37-49-68	42-53-73	48-59-82	52-64-90	56-69-97
			22 1/2°	12-19-36	17-25-42	22-32-46	25-37-50	30-39-54	34-42-58	38-47-66	42-51-72	45-55-78

- When used as a return, add 7 NC to the NC value shown in the supply table. The negative static pressure is 2.4 times the velocity pressure shown.
- Each NC value is based on grille operation at a 0° deflection. If the 07 Blades are adjusted to 22 1/2° or 45, Increase the stated sound levels by 1 or 7 NC respectively.
- See the section, Engineering Guidelines, in this catalog for throw information