

Performance Notes for Heavy Duty Supply Grilles and Registers 6100-HD Series

Throw, Spread and Drop

The isovel diagrams shown below, illustrate in plan view, the relationship of horizontal spread to throw for three standard vertical blade deflections and represent a typical high side wall supply outlet. The isovels (throw values) are for the cataloged terminal velocities of 150, 100 and 50 fpm.

Cataloged data, in accordance with the test code, is with the grille mounted 9" (229) below the ceiling and benefiting from the ceiling coanda effect under isothermal conditions. Throw values without ceiling effect (greater than 24" (610) from a surface parallel to the airflow) may be approximated by multiplying the cataloged throw by x 0.7.

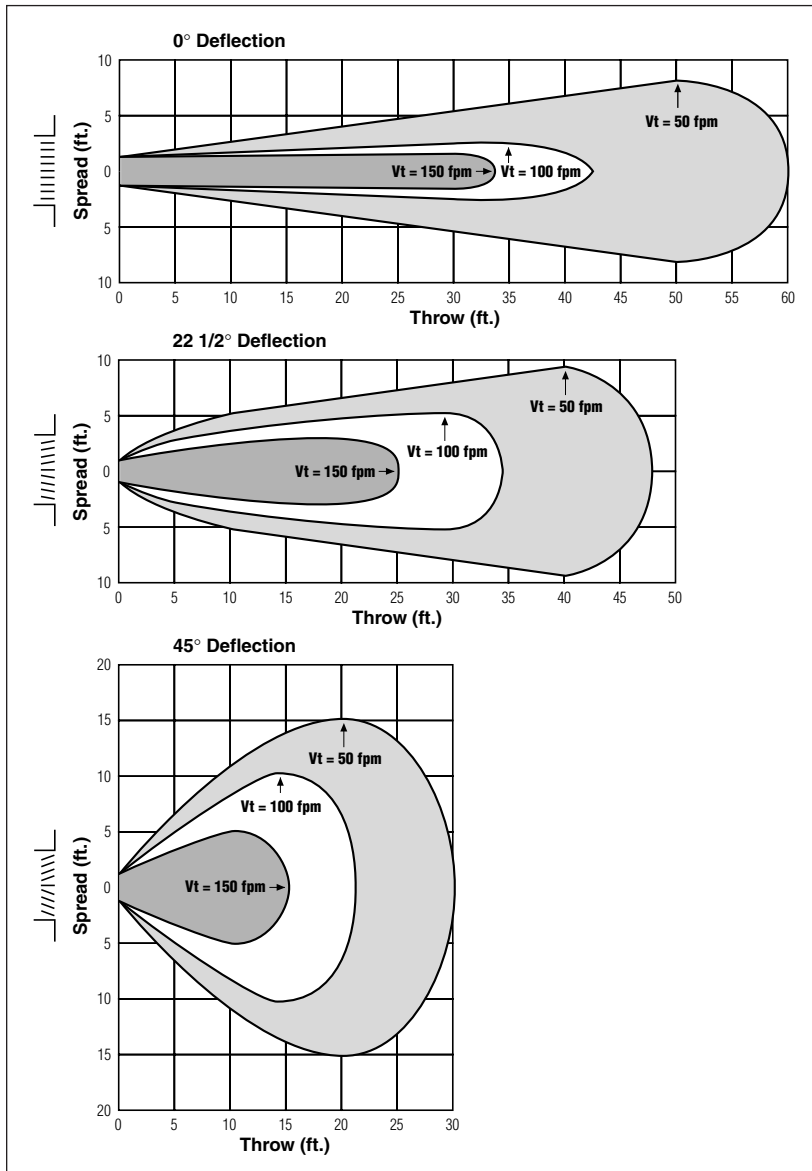
In order to offset potential draft problems caused by premature drop, it is recommended to set the blades with an upward deflection setting of 15 – 20° in free space conditions. The

angle of spread and temperature differential between the supply air and room air (ΔT) also effects the drop of the airstream.

Under constant conditions of temperature, volume and core velocity, the wider the spread, the smaller the drop. Typical cold supply air (20°F ΔT) reduces horizontal throw by approximately 30%. Warm air will increase throw by approximately 30% and reduce drop.

For a full explanation of the effects of spread, throw, temperature and drop, refer to the engineering guide at the back of the catalog.

Spread Characteristics With Three Deflection Settings



NC Corrections for Blade Deflection (add)

Model Type	Damper	Blade Deflection		
		0°	22 1/2°	45°
Double Deflection	With	0	+ 2	+ 7
	Without	- 4	- 2	+ 3
Single Deflection	With	- 4	- 1	+ 4
	Without	- 8	- 6	+ 1

Note: Damper corrections are for wide open damper.

TP Correction Factors for Grilles Without Damper (multiply)

Blade deflection	0°	22 1/2°	45°
Double Defl. Factor	x .80	x .83	x .89
Single Defl. Factor	x .73	x .76	x .85

NC Corrections for Throttling Damper (add)

Additional Pressure Drop (in. w.g.)	.05"	.15"	.25"
Approx. Damper Opening	75%	67%	50%
NC add	+ 6	+ 11	+ 18

Performance Data

Supply Grilles and Registers • 6100-HD Series

Models: 61DV-HD, 61DH-HD, 61SV-HD, 61SH-HD

Listed Duct Size (inches)	Alternate Size (inches)	Core Area (sq. ft.)	Ak Factor	Core Velocity VP	300	400	500	600	700	800	1000	1200	1400	
					.006	.010	.016	.022	.031	.040	.062	.090	.122	
6 x 6	8 x 4 10 x 4	0.20		CFM										
				NC										
				T	0°	5-7-13	7-9-16	8-12-18	10-14-20	11-15-21	12-16-23	15-18-25	16-20-27	17-21-30
				22 1/2°	4-6-10	6-7-13	6-10-14	8-11-16	9-12-17	10-13-18	12-14-20	13-16-22	14-17-24	
				45°	3-4-7	4-5-8	4-6-9	5-7-10	6-8-11	6-8-12	8-9-13	8-10-14	9-11-15	
8 x 6	10 x 5 12 x 4	0.27		CFM	81	108	135	162	189	216	270	324	378	
				NC										
				T	0°	5-8-15	8-12-18	10-14-20	11-16-23	13-18-25	15-19-27	17-21-30	18-23-32	19-24-35
				22 1/2°	4-6-12	6-10-14	8-11-16	9-13-18	10-14-20	12-15-22	14-17-24	14-18-26	15-19-28	
				45°	3-4-8	4-6-9	5-7-10	6-8-12	7-9-13	8-10-14	9-11-15	9-12-16	10-12-18	
10 x 6	12 x 5 16 x 4	0.35		CFM	105	140	175	210	245	280	350	420	490	
				NC										
				T	0°	6-9-19	9-13-21	10-16-24	12-19-26	15-20-28	17-21-30	20-23-33	21-25-36	22-27-39
				22 1/2°	5-7-14	7-10-17	8-13-19	10-15-21	12-16-22	14-17-24	16-18-26	17-20-29	18-22-31	
				45°	3-5-9	5-7-11	5-8-12	6-10-13	8-10-14	9-11-15	10-12-17	11-13-18	11-14-20	
8 x 8	14 x 5	0.38		CFM	114	152	190	228	266	304	380	456	532	
				NC										
				T	0°	6-9-19	9-14-22	11-16-25	13-19-27	16-21-29	18-22-32	19-24-34	21-26-37	23-28-40
				22 1/2°	5-7-15	7-11-18	9-13-20	10-15-22	13-17-23	14-18-26	15-19-27	17-21-30	18-22-32	
				45°	3-5-10	5-7-11	6-8-13	7-10-14	8-11-15	9-11-16	10-12-17	11-13-19	12-14-20	
12 x 6	18 x 4	0.42		CFM	126	168	210	252	294	336	420	504	588	
				NC										
				T	0°	6-9-19	9-14-22	11-16-25	13-19-27	16-21-30	18-22-32	19-24-34	21-28-38	23-29-41
				22 1/2°	5-7-15	7-11-18	9-13-20	10-15-22	13-17-24	14-18-26	15-19-27	17-22-30	18-23-33	
				45°	3-5-10	5-7-11	6-8-13	7-10-14	8-11-15	9-11-16	10-12-17	11-14-19	12-15-21	
14 x 6	10 x 8	0.50		CFM	150	200	250	300	350	400	500	600	700	
				NC										
				T	0°	6-11-20	10-15-23	12-18-25	15-20-28	16-22-31	19-23-33	21-25-36	23-28-40	25-31-43
				22 1/2°	5-9-16	8-12-18	10-14-20	12-16-22	13-18-25	15-18-26	17-20-29	18-22-32	20-25-34	
				45°	3-6-10	5-8-12	6-9-13	8-10-14	8-11-16	10-12-17	11-13-18	12-14-20	13-16-22	
12 x 8	16 x 6 24 x 4	0.58		CFM	174	232	290	348	406	464	580	696	812	
				NC										
				T	0°	7-11-21	10-15-24	12-19-27	15-21-30	17-23-32	20-24-34	22-27-38	24-30-42	26-32-45
				22 1/2°	6-9-17	8-12-19	10-15-22	12-17-24	14-18-26	16-19-27	18-22-30	19-24-34	21-26-36	
				45°	4-6-11	5-8-12	6-10-14	8-11-15	9-12-16	10-12-17	11-14-19	12-15-21	13-16-23	
10 x 10	14 x 7 26 x 4	0.61		CFM	183	244	305	366	427	488	610	732	854	
				NC										
				T	0°	7-11-21	10-16-24	13-19-28	16-21-30	17-23-32	20-24-35	23-28-39	24-30-43	27-32-46
				22 1/2°	6-9-17	8-13-19	10-15-22	13-17-24	14-18-26	16-19-28	18-22-31	19-24-34	22-26-37	
				45°	4-6-11	5-8-12	7-10-14	8-11-15	9-12-16	10-12-18	12-14-20	12-15-22	14-16-23	
18 x 6	14 x 8 28 x 4 30 x 4	0.65		CFM	195	260	325	390	455	520	650	780	910	
				NC										
				T	0°	7-12-22	11-16-25	13-20-29	16-22-32	18-24-34	21-25-36	24-29-40	25-32-45	28-34-48
				22 1/2°	6-10-18	9-13-20	10-16-23	13-18-26	14-19-27	17-20-29	19-23-32	20-26-36	22-27-38	
				45°	4-6-11	6-8-13	7-10-15	8-11-16	9-12-17	11-13-18	12-15-20	13-16-23	14-17-24	
12 x 10	20 x 6 24 x 5	0.74		CFM	222	296	370	444	518	592	740	888	1036	
				NC										
				T	0°	8-13-24	11-17-27	14-21-31	17-24-33	20-26-36	22-27-39	25-31-43	27-33-48	30-36-51
				22 1/2°	6-10-19	9-14-22	11-17-25	14-19-26	16-21-29	18-22-31	20-25-34	22-26-38	24-29-41	
				45°	4-7-12	6-9-14	7-11-16	9-12-17	10-13-18	11-14-20	13-16-22	14-17-24	15-18-26	
22 x 6	16 x 8 28 x 5 36 x 4	0.80		CFM	240	320	400	480	560	640	800	960	1120	
				NC										
				T	0°	8-13-25	11-18-28	15-22-32	18-25-35	20-27-38	23-28-41	26-32-45	28-35-50	31-38-53
				22 1/2°	6-10-20	9-14-22	12-18-26	14-20-28	16-22-30	18-22-33	21-26-36	22-28-40	25-30-42	
				45°	4-7-13	6-9-14	8-11-16	9-13-18	10-14-19	12-14-21	13-16-23	14-18-25	16-19-27	
12 x 12	14 x 10 18 x 8 24 x 6 38 x 4	0.90		CFM	270	360	450	540	630	720	900	1080	1260	
				NC										
				T	0°	9-14-26	12-18-29	15-23-33	18-26-36	21-27-39	24-29-42	27-33-47	29-36-51	32-39-56
				22 1/2°	7-11-21	10-14-23	12-18-26	14-21-29	17-22-31	19-23-34	22-26-38	23-29-41	26-31-45	
				45°	5-7-13	6-9-15	8-12-17	9-13-18	11-14-20	12-15-21	14-17-24	15-18-26	16-20-28	
18 x 10	30 x 6	1.13		CFM	339	452	565	678	791	904	1130	1356	1582	
				NC										
				T	0°	9-15-29	14-20-33	17-25-36	20-29-40	24-30-43	27-33-46	30-36-51	33-40-57	35-43-61
				22 1/2°	7-12-23	11-16-26	14-20-29	16-23-32	19-24-34	22-26-37	24-29-41	26-32-46	28-34-49	
				45°	5-8-15	7-10-17	9-13-18	10-15-20	12-15-22	14-17-23	15-18-26	17-20-29	18-22-31	

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Listed Duct Size (inches)	Alternate Size (inches)	Core Area (sq. ft.)	Ak Factor	Core Velocity VP	300	400	500	600	700	800	1000	1200	1400	
					.006	.010	.016	.022	.031	.040	.062	.090	.122	
				CFM NC	0°	.015	.026	.041	.059	.081	.106	.165	.238	.324
					22 1/2°	.017	.030	.047	.068	.093	.122	.190	.274	.373
					45°	.026	.046	.072	.103	.142	.186	.289	.417	.567
24 x 24	26 x 22 28 x 20 32 x 18 36 x 16	3.79		CFM NC	0°	1137	1516	1895	2274	2653	3032	3790	4548	5306
					22 1/2°	—	14	21	26	31	35	41	47	52
					45°	18-29-55 14-23-44 9-15-28	26-39-62 21-31-50 13-20-31	33-48-70 26-38-56 17-24-35	39-55-77 31-44-62 20-28-39	45-59-83 36-47-66 23-30-42	51-62-89 41-50-71 26-31-45	57-70-99 46-56-79 29-35-50	62-77-108 50-62-86 31-39-54	68-83-117 54-66-94 34-42-59
36 x 18	32 x 20 40 x 16 46 x 14	4.29		CFM NC	0°	1287	1716	2145	2574	3003	3432	4290	5148	6006
					22 1/2°	—	15	22	27	32	36	42	48	53
					45°	19-31-58 15-25-46 10-16-29	28-42-68 22-34-54 14-21-34	35-52-75 28-42-60 18-26-38	42-58-83 34-46-66 21-29-42	48-63-89 38-50-71 24-32-45	55-68-95 44-54-76 28-34-48	61-75-106 49-60-85 31-38-53	68-83-117 54-66-94 34-42-59	73-89-125 58-71-100 37-45-63
26 x 26	28 x 24 48 x 14	4.47		CFM NC	0°	1341	1788	2235	2682	3129	3576	4470	5364	6258
					22 1/2°	—	15	22	27	32	36	42	48	53
					45°	19-32-59 15-26-47 10-16-30	28-43-69 22-34-55 14-22-35	35-53-77 28-42-62 18-27-32	43-59-85 34-47-68 21-29-42	49-65-91 39-52-73 25-33-46	56-69-98 45-55-78 28-35-49	63-77-109 50-62-87 32-39-55	69-85-120 55-68-96 35-43-60	75-91-129 60-73-103 38-46-65
30 x 24	32 x 22 36 x 20 40 x 18	4.77		CFM NC	0°	1431	1908	2385	2862	3339	3816	4770	5724	6678
					22 1/2°	—	15	22	27	32	36	42	48	53
					45°	20-33-61 16-26-49 10-17-31	29-44-71 23-35-57 15-22-36	36-54-79 29-43-63 18-27-40	44-61-87 35-49-70 22-31-44	51-67-94 41-54-75 26-34-47	58-71-101 46-57-81 29-36-51	65-79-112 52-63-90 33-40-56	71-87-123 57-70-98 36-44-62	77-94-133 62-75-106 39-47-67
42 x 18	28 x 26	4.99		CFM NC	0°	1497	1996	2495	2994	3493	3992	4990	5988	6986
					22 1/2°	—	16	23	28	33	37	43	49	54
					45°	20-33-62 16-26-50 10-17-31	30-44-72 24-35-58 15-22-36	37-55-80 30-44-64 19-28-40	44-62-88 35-50-70 22-31-44	52-67-95 42-54-76 26-34-48	59-72-102 47-58-82 30-36-51	66-80-114 53-64-91 33-40-57	72-88-125 58-70-100 36-44-63	77-95-135 62-76-108 39-48-68
28 x 28	30 x 26 36 x 22 40 x 20	5.20		CFM NC	0°	1560	2080	2600	3120	3640	4160	5200	6240	7280
					22 1/2°	—	16	23	28	33	37	43	49	54
					45°	21-34-63 17-27-50 11-17-32	30-45-74 24-36-59 15-23-37	38-56-82 30-45-66 19-28-41	45-63-90 36-50-72 23-32-45	53-69-97 42-55-78 27-35-49	60-74-104 48-59-83 30-37-52	67-82-116 54-66-93 34-41-58	74-90-128 59-72-102 37-45-64	79-97-137 63-78-110 40-49-69
42 x 20	30 x 28	5.57		CFM NC	0°	1671	2228	2785	3342	3899	4456	5570	6684	7798
					22 1/2°	—	16	23	28	33	37	43	49	54
					45°	22-35-66 18-28-53 11-18-33	31-47-76 25-38-61 16-24-38	39-58-84 31-46-67 20-29-42	47-66-93 38-53-74 24-33-47	55-71-100 44-57-80 28-36-50	62-76-107 50-61-86 31-38-54	70-84-120 56-67-96 35-42-60	76-93-131 61-74-105 38-47-66	82-100-142 66-80-114 41-50-71
36 x 24	40 x 22 44 x 20	5.74		CFM NC	0°	1722	2296	2870	3444	4018	4592	5740	6888	8036
					22 1/2°	—	16	23	28	33	37	43	49	54
					45°	23-36-68 18-29-54 12-18-34	32-49-78 26-39-62 16-25-39	41-60-88 33-48-70 21-30-44	49-68-96 39-54-77 25-34-48	57-74-104 46-59-83 29-37-52	64-78-112 51-62-90 32-39-56	72-88-124 58-70-99 36-44-62	78-96-137 62-77-110 39-48-69	85-104-148 68-83-118 43-52-74
30 x 30	34 x 26 38 x 24 48 x 20	5.99		CFM NC	0°	1797	2396	2995	3594	4193	4792	5990	7188	8386
					22 1/2°	—	16	23	28	33	37	43	49	54
					45°	23-36-69 18-29-55 12-18-35	33-49-80 26-39-64 17-25-40	41-61-89 33-49-71 21-31-45	49-69-98 39-55-78 25-35-49	57-75-106 46-60-85 29-38-53	65-80-113 52-64-90 33-40-57	73-89-126 58-71-101 37-45-63	80-98-138 64-78-110 40-49-69	86-106-150 69-85-120 43-53-75
42 x 24	36 x 28 42 x 24 46 x 22	6.72		CFM NC	0°	2016	2688	3360	4032	4704	5376	6720	8064	9408
					22 1/2°	—	17	24	29	34	38	44	50	55
					45°	24-39-72 19-31-58 12-20-36	34-51-84 27-41-67 17-26-42	43-64-93 34-51-74 22-32-47	51-72-102 41-58-82 26-36-51	60-78-111 48-62-89 30-39-56	68-84-118 54-67-94 34-42-59	77-93-132 62-74-106 39-47-66	84-102-144 67-82-115 42-51-72	90-111-157 72-89-126 45-56-79
32 x 32	40 x 26	6.84		CFM NC	0°	2052	2736	3420	4104	4788	5472	6840	8208	9576
					22 1/2°	—	17	24	29	34	38	44	50	55
					45°	24-39-73 19-31-58 12-20-37	34-52-84 27-42-67 17-26-42	43-65-94 34-52-75 22-33-47	52-73-103 42-58-82 26-37-52	61-79-112 49-63-90 31-40-56	69-84-119 55-67-95 35-42-60	77-94-133 62-75-106 39-47-67	84-103-146 67-82-117 42-52-73	91-112-158 73-90-126 46-56-79
36 x 30	38 x 28	7.22		CFM NC	0°	2166	2888	3610	4332	5054	5776	7220	8664	10108
					22 1/2°	—	17	24	29	34	38	44	50	55
					45°	25-40-76 20-32-61 13-20-38	36-54-87 29-43-70 18-27-44	45-68-98 36-54-78 23-34-49	54-76-108 43-61-86 27-38-54	63-82-116 50-66-93 32-41-58	71-87-124 57-70-99 36-44-62	80-98-139 64-78-111 40-49-70	87-108-151 70-86-121 44-54-76	94-116-164 75-93-131 47-58-82
48 x 24	34 x 34 36 x 32 38 x 30 42 x 28	7.69		CFM NC	0°	2307	3076	3845	4614	5383	6152	7690	9228	10766
					22 1/2°	—	18	25	30	35	39	45	51	56
					45°	26-41-77 21-33-62 13-22-39	37-55-90 30-44-72 19-28-45	46-69-100 37-55-80 23-45-50	55-77-109 44-62-87 28-39-55	64-84-118 51-67-94 32-42-59	73-90-127 58-72-102 37-45-64	82-100-142 66-80-114 41-50-71	90-109-155 72-87-124 45-55-78	97-118-167 78-94-134 49-59-84

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					0°	.015	.026	.041	.059	.081	.106	.165	.238	.324	
					TP	22 1/2°	.017	.030	.047	.068	.093	.122	.190	.274	.373
						45°	.026	.046	.072	.103	.142	.186	.289	.417	.567
36 x 34	38 x 32 40 x 30 48 x 26	8.20		CFM	2460	3280	4100	4920	5740	6560	8200	9840	11480		
				NC	—	18	25	30	35	39	45	51	56		
				T	0°	26-42-79	37-57-91	47-70-102	57-79-111	65-85-121	75-91-129	84-102-144	91-111-158	98-121-171	
					22 1/2°	21-34-63	30-46-73	38-56-82	46-63-89	52-68-97	60-73-103	67-82-115	73-89-126	78-97-137	
					45°	13-21-40	19-29-46	24-35-51	29-40-56	33-43-61	38-46-65	42-51-72	46-56-79	49-61-86	
36 x 36	38 x 34 42 x 30 46 x 28	8.69		CFM	2607	3476	4345	5214	6083	6952	8690	10428	12166		
				NC	—	18	25	30	35	39	45	51	56		
				T	0°	28-45-84	39-60-96	49-74-108	60-84-117	69-90-127	78-96-136	88-108-152	96-117-166	104-127-180	
					22 1/2°	22-36-67	31-48-77	39-59-86	48-67-94	55-72-102	62-77-109	70-86-122	77-94-133	83-102-144	
					45°	14-23-42	20-30-48	25-37-54	30-42-59	35-45-64	39-48-68	44-54-76	48-59-83	52-64-90	
38 x 38	42 x 34	9.70		CFM	2910	3880	4850	5820	6790	7760	9700	11640	13580		
				NC	10	19	26	31	36	40	46	52	57		
				T	0°	28-47-88	42-62-101	53-78-114	62-88-125	73-95-134	83-101-143	93-114-161	101-125-176	109-134-190	
					22 1/2°	22-38-70	34-50-81	42-62-91	50-70-100	58-76-107	66-81-114	74-91-129	81-100-141	87-107-152	
					45°	14-24-44	21-31-51	27-39-57	31-44-63	37-48-67	42-51-72	47-57-81	51-63-88	55-67-95	
42 x 36	44 x 34 48 x 30	10.16		CFM	3048	4064	5080	6096	7112	8128	10160	12192	14224		
				NC	10	19	26	31	36	40	46	52	57		
				T	0°	29-48-90	43-64-104	53-80-117	64-90-127	75-97-138	85-104-147	95-117-165	104-127-180	112-138-195	
					22 1/2°	23-38-72	34-51-83	42-64-94	51-72-102	60-78-110	68-83-118	76-94-132	83-102-144	90-110-156	
					45°	15-24-45	22-32-52	27-40-59	32-45-64	38-49-69	43-52-74	48-59-83	52-64-90	56-69-98	
40 x 40	42 x 38 46 x 34 48 x 32	10.77		CFM	3231	4308	5385	6462	7539	8616	10770	12924	15078		
				NC	10	19	26	31	36	40	46	52	57		
				T	0°	31-50-94	44-67-108	56-84-121	67-94-132	77-102-143	88-108-153	99-121-171	108-132-187	117-143-203	
					22 1/2°	25-40-75	35-54-86	45-67-97	54-75-106	62-82-114	70-86-122	79-97-137	86-106-150	94-114-162	
					45°	16-25-47	22-34-54	28-42-61	34-47-66	39-51-72	44-54-77	50-61-86	54-66-94	59-72-102	
42 x 42	44 x 40 46 x 38 48 x 36	11.89		CFM	3567	4756	5945	7134	8323	9512	11890	14268	16646		
				NC	11	20	27	32	37	41	47	53	58		
				T	0°	32-52-97	46-69-112	58-86-125	69-97-138	81-105-149	92-112-159	102-125-178	112-138-195	122-149-210	
					22 1/2°	26-42-78	37-55-90	46-69-100	55-78-110	65-84-119	74-90-127	82-100-142	90-110-156	98-119-168	
					45°	16-26-49	23-35-56	29-43-63	35-49-69	41-53-75	46-56-80	51-63-89	56-69-98	61-75-105	
44 x 44	46 x 42	13.07		CFM	3921	5228	6535	7842	9149	10456	13070	15684	18298		
				NC	11	20	27	32	37	41	47	53	58		
				T	0°	34-55-104	49-74-120	61-92-133	74-104-146	86-112-158	97-120-168	109-133-189	120-146-207	129-158-223	
					22 1/2°	27-44-83	39-59-96	49-74-106	59-83-117	69-90-126	78-96-134	87-106-151	96-117-166	103-126-178	
					45°	17-28-52	25-37-60	31-46-67	37-52-73	43-56-79	49-60-84	55-67-95	60-73-104	65-79-112	
46 x 46		14.30		CFM	4290	5720	7150	8580	10010	11440	14300	17160	20020		
				NC	11	20	27	32	37	41	47	53	58		
				T	0°	35-57-107	51-76-124	63-95-138	76-107-151	89-116-163	101-124-174	113-138-195	124-151-214	134-163-231	
					22 1/2°	28-46-86	41-61-99	50-76-110	61-86-121	71-93-130	81-99-139	90-110-156	99-121-171	107-130-185	
					45°	18-29-54	26-38-62	32-48-69	38-54-76	45-58-82	51-62-87	57-69-98	62-76-107	62-82-116	
48 x 48		15.59		CFM	4677	6236	7795	9354	10913	12472	15590	18708	21826		
				NC	12	21	28	33	38	42	48	54	59		
				T	0°	37-60-113	53-80-131	67-100-146	80-113-159	94-122-173	106-131-185	119-146-206	131-159-226	140-173-244	
					22 1/2°	30-48-90	42-64-105	54-80-117	64-90-127	75-98-138	85-105-148	95-117-165	105-127-181	112-138-195	
					45°	19-30-57	27-40-66	34-50-73	40-57-80	47-61-87	53-66-93	60-73-103	62-80-113	70-87-122	

CFM - cubic feet per minute

TP - total pressure - inches w.g.

VP - velocity pressure - inches w.g.

T - throw in feet

NC - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts @ 0° deflection.

Core velocity is in feet per minute.

Performance Notes:

1. Performance data is based on double deflection grille with opposed blade damper (register).

2. 0°, 22 1/2° and 45° represent vertical blade deflection angles and horizontal spread.

3. Throw values are given for terminal velocities of 150, 100 and 50 fpm under isothermal conditions.

4. Additional performance notes and correction factors for various models and settings may be found on page 42.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 1991.