

PERFORMANCE NOTES FOR SUPPLY GRILLES AND REGISTERS: AIRFOIL BLADE 7100 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.

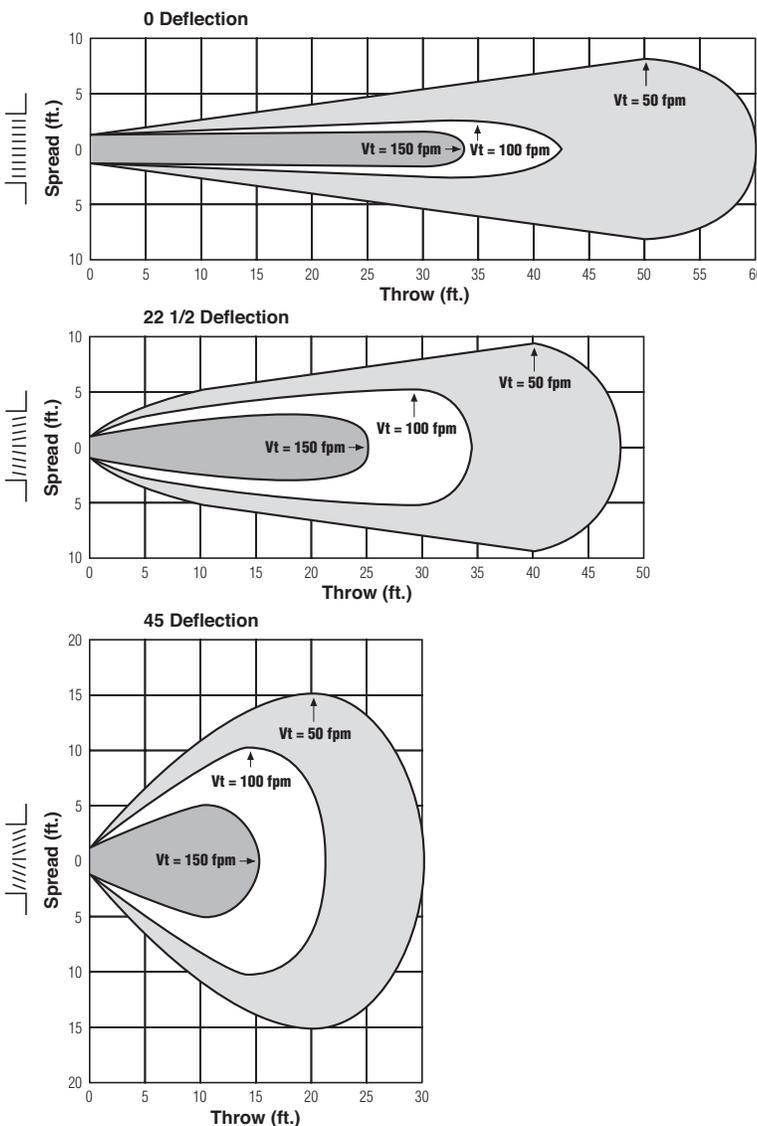
Cataloged data, in accordance with the test code, is with the grille mounted 9" (229) below the ceiling and benefiting from the ceiling coanda effect under isothermal conditions. Throw values without ceiling effect (greater than 24" (610) from a surface parallel to the airflow) may be approximated by 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 Deflection Factor	x .73	x .76	x .84
Single Deflection Factor	x .66	x .70	x .80

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 • AIRFOIL BLADE 7100 SERIES MODELS: 71DV, 71DH, 71SV, 71SH

Listed Duct Size (inches)	Alternate Sizes (inches)	Core Area (sq. ft.)	Ak Factor	Core Velocity		300	400	500	600	700	800	1000	1200	1400
				Velocity Pressure		.006	.010	.016	.022	.031	.040	.062	.090	.122
				Total Pressure	0°	.011	.019	.030	.044	.060	.078	.122	.175	.238
14 x 14	16 x 12 20 x 10 24 x 8 34 x 6	1.24		CFM	0°	372	496	620	744	868	992	1240	1488	1736
				Noise Criteria	22 1/2°	—	—	—	19	24	28	34	40	45
				Throw	45°	11-18-33 9-14-26 6-9-17	16-25-39 13-20-31 8-13-20	20-29-42 16-23-34 10-15-21	24-33-47 19-26-38 12-17-24	27-36-51 22-29-41 14-18-26	31-39-54 25-31-43 16-20-27	35-42-60 28-34-48 18-21-30	39-47-66 31-38-53 20-24-33	41-51-71 33-41-57 21-26-36
18 x 12	16 x 14 22 x 10 28 x 8 38 x 6	1.37		CFM	0°	411	548	685	822	959	1096	1370	1644	1918
				Noise Criteria	22 1/2°	—	—	15	20	25	29	35	41	46
				Throw	45°	11-18-33 9-14-26 6-9-17	16-25-39 13-20-31 8-13-20	20-30-43 16-24-34 10-15-22	24-33-47 19-26-38 12-17-24	28-36-51 22-29-41 14-18-26	32-39-54 26-31-43 16-20-27	35-43-61 28-34-49 18-22-31	39-47-67 31-38-54 20-24-34	41-51-72 33-41-58 21-26-36
24 x 10	20 x 12 30 x 8	1.52		CFM	0°	456	608	760	912	1064	1216	1520	1824	2128
				Noise Criteria	22 1/2°	—	—	15	20	25	29	35	41	46
				Throw	45°	12-19-35 10-15-28 6-10-18	16-25-41 13-20-33 8-13-21	21-32-45 17-26-36 11-16-23	25-35-50 20-28-40 13-18-25	29-38-53 23-30-42 15-19-27	34-41-57 27-33-46 17-21-29	37-45-65 30-36-51 19-23-32	41-50-70 33-40-56 21-25-35	43-53-76 34-42-61 22-27-38
16 x 16	18 x 14 22 x 12 30 x 8	1.64		CFM	0°	492	656	820	984	1148	1312	1640	1968	2296
				Noise Criteria	22 1/2°	—	—	15	20	25	29	35	41	46
				Throw	45°	12-20-37 10-16-30 6-10-19	17-26-42 14-21-34 9-13-21	22-32-47 18-26-38 11-16-24	26-37-51 21-30-41 13-19-26	31-40-56 25-32-45 16-20-28	35-42-59 28-34-47 18-21-30	39-47-67 31-38-54 20-24-34	42-51-73 34-41-58 21-26-37	46-56-79 37-45-63 23-28-40
24 x 12	18 x 16 20 x 14 30 x 10 36 x 8	1.85		CFM	0°	555	740	925	1110	1295	1480	1850	2220	2590
				Noise Criteria	22 1/2°	—	—	16	21	26	30	36	42	47
				Throw	45°	12-20-38 10-16-30 6-10-19	18-27-44 14-22-35 9-14-22	22-33-48 18-26-38 11-17-24	27-38-54 22-30-43 14-19-27	32-40-58 26-32-46 16-20-29	36-44-62 29-35-50 18-22-31	40-48-69 32-38-55 20-24-35	44-54-76 35-43-61 22-27-38	48-58-82 38-46-66 24-29-41
18 x 18	20 x 16 24 x 14 28 x 12 32 x 10	2.10		CFM	0°	630	840	1050	1260	1470	1680	2100	2520	2940
				Noise Criteria	22 1/2°	—	—	16	21	26	30	36	42	47
				Throw	45°	13-21-40 10-17-32 7-11-20	19-29-47 15-23-38 10-15-24	24-36-52 19-29-42 12-18-26	29-40-57 23-32-46 15-20-29	33-43-62 26-34-50 17-22-31	38-47-66 30-38-53 19-24-33	42-52-74 34-42-59 21-26-37	47-57-81 38-46-65 24-29-41	50-62-87 40-50-70 25-31-44
30 x 12	20 x 18 22 x 16 26 x 14 36 x 10	2.32		CFM	0°	696	928	1160	1392	1624	1856	2320	2784	3248
				Noise Criteria	22 1/2°	—	—	17	22	27	31	37	43	48
				Throw	45°	14-23-43 11-18-34 7-12-22	21-31-50 17-25-40 11-16-25	26-39-56 19-29-42 13-20-28	31-43-61 25-34-49 16-22-31	36-47-67 29-38-54 18-24-34	41-50-71 33-40-57 21-25-36	46-56-79 32-45-63 23-28-40	50-61-86 40-49-69 25-31-43	54-67-94 43-54-75 27-34-47
24 x 16	32 x 12	2.50		CFM	0°	750	1000	1250	1500	1750	2000	2500	3000	3500
				Noise Criteria	22 1/2°	—	—	17	22	27	31	37	43	48
				Throw	45°	14-24-45 11-19-36 7-12-23	22-32-52 18-26-42 11-16-26	27-40-58 22-32-46 14-20-29	32-45-64 26-36-51 16-23-32	37-49-68 30-39-54 19-25-34	43-52-74 34-42-59 22-26-37	48-58-82 38-46-66 24-29-41	52-64-90 42-51-72 26-32-45	56-68-97 45-54-78 28-34-49
20 x 20	22 x 18	2.61		CFM	0°	783	1044	1305	1566	1827	2088	2610	3132	3654
				Noise Criteria	22 1/2°	—	—	17	22	27	31	37	43	48
				Throw	45°	15-24-46 12-19-37 8-12-23	22-32-53 18-26-42 11-16-27	27-41-59 22-33-47 14-21-30	32-46-65 26-37-52 16-23-33	38-50-70 30-40-56 19-25-35	44-53-75 35-42-60 22-27-38	49-59-84 39-47-67 25-30-42	53-65-92 42-52-74 27-33-46	58-70-99 46-56-79 29-35-50
36 x 12	22 x 20 24 x 18 26 x 16 30 x 14	2.79		CFM	0°	837	1116	1395	1674	1953	2232	2790	3348	3906
				Noise Criteria	22 1/2°	—	—	17	22	27	31	37	43	48
				Throw	45°	15-25-48 12-20-38 8-13-24	23-34-55 18-27-44 12-17-28	28-42-61 22-34-49 14-21-31	34-48-68 27-38-54 17-24-34	4-51-73 32-41-58 20-26-37	45-55-77 36-44-62 23-28-39	50-61-86 40-49-69 25-31-43	55-68-95 44-54-76 28-34-48	59-73-103 47-58-82 30-37-52
22 x 22	24 x 20 26 x 18 30 x 16 40 x 12	3.17		CFM	0°	951	1268	1585	1902	2219	2536	3170	3804	4438
				Noise Criteria	22 1/2°	—	—	18	23	28	32	38	44	49
				Throw	45°	17-27-50 14-22-40 9-14-25	24-36-58 19-29-46 12-18-29	29-45-65 23-36-52 15-23-33	36-50-71 29-40-57 18-25-36	42-54-77 34-43-62 21-27-39	47-58-82 38-46-66 24-29-41	53-65-92 42-52-74 27-33-46	58-71-101 46-57-81 29-36-51	62-77-109 50-62-87 31-39-55
42 x 12	36 x 14	3.27		CFM	0°	981	1308	1635	1962	2289	2616	3270	3924	4578
				Noise Criteria	22 1/2°	—	—	18	23	28	32	38	44	49
				Throw	45°	17-27-51 14-22-41 9-14-26	24-36-59 19-29-47 12-18-30	30-45-66 24-36-53 15-23-33	36-51-72 29-41-58 18-26-36	42-55-77 34-44-62 21-28-39	48-59-83 38-47-66 24-30-42	53-66-93 42-53-74 27-33-47	59-72-101 47-58-81 3-36-51	63-77-109 50-62-87 32-39-55
30 x 18	24 x 22 34 x 16 40 x 14	3.54		CFM	0°	1062	1416	1770	2124	2478	2832	3540	4248	4956
				Noise Criteria	22 1/2°	—	—	18	23	28	32	38	44	49
				Throw	45°	18-28-53 14-22-42 9-14-27	25-37-61 20-30-49 13-19-31	31-47-69 25-38-55 16-24-35	37-53-75 30-42-60 19-27-38	44-57-81 35-46-65 22-29-41	50-61-86 40-49-69 25-31-43	56-69-97 45-55-78 28-35-49	61-75-106 49-60-85 31-38-53	66-81-115 53-65-92 33-41-58

GRILLES AND REGISTERS

For performance data notes, see F77.

PERFORMANCE DATA: SUPPLY GRILLES AND REGISTERS • AIRFOIL BLADE 7100 SERIES MODELS: 71DV, 71DH, 71SV, 71SH

Listed Duct Size (inches)	Alternate Sizes (inches)	Core Area (sq. ft.)	Ak Factor	Core Velocity		300	400	500	600	700	800	1000	1200	1400
				Velocity	Pressure	.006	.010	.016	.022	.031	.040	.062	.090	.122
				Total Pressure	0°	.011	.019	.030	.044	.060	.078	.122	.175	.238
					22 1/2°	.012	.022	.034	.049	.067	.087	.136	.196	.267
					45°	.019	.033	.052	.074	.101	.132	.207	.298	.406
24 x 24	26 x 22 28 x 20 32 x 18 36 x 16	3.79		CFM		1137	1516	1895	2274	2653	3032	3790	4548	5306
				Noise Criteria		—	—	18	23	28	32	38	44	49
				Throw	0°	18-29-55	29-36-62	33-48-70	39-55-77	45-59-83	51-62-89	57-70-99	62-77-108	68-83-117
					22 1/2°	14-23-44	21-31-50	26-38-56	31-44-62	36-47-66	41-50-71	46-56-79	50-62-86	54-66-94
36 x 18	32 x 20 40 x 16 46 x 14	4.29		CFM		1287	1716	2145	2574	3003	3432	4290	5148	6006
				Noise Criteria		—	—	19	24	29	33	39	45	50
				Throw	0°	19-31-58	28-42-68	35-52-75	2-58-83	48-63-89	55-68-95	61-75-106	68-83-117	73-89-125
					22 1/2°	15-25-46	22-34-54	28-42-60	34-46-66	38-50-71	44-54-76	49-60-85	54-66-94	58-71-100
26 x 26	28 x 24 48 x 14	4.47		CFM		1341	1788	2235	2682	3129	3576	4470	5364	6258
				Noise Criteria		—	—	19	24	29	33	39	45	50
				Throw	0°	19-32-59	28-43-69	35-53-77	43-59-85	49-65-91	56-69-98	63-77-109	69-85-120	75-91-129
					22 1/2°	15-26-47	22-34-55	28-42-62	34-47-68	39-52-73	45-55-78	50-62-87	55-68-96	60-73-103
30 x 24	32 x 22 36 x 20 40 x 18	4.77		CFM		1431	1908	2385	2862	3339	3816	4770	5724	6678
				Noise Criteria		—	—	19	24	29	33	39	45	50
				Throw	0°	20-33-61	29-44-71	36-54-79	44-61-87	51-67-94	58-71-101	65-79-112	71-87-123	77-94-133
					22 1/2°	16-26-49	23-35-57	29-43-63	35-49-70	41-54-75	46-57-81	52-63-90	57-70-98	62-75-106
42 x 18	28 x 26	4.99		CFM		1497	1996	2495	2994	3493	3992	4990	5988	6986
				Noise Criteria		—	—	20	25	30	34	40	46	51
				Throw	0°	20-33-62	30-44-72	37-55-80	44-62-88	52-67-95	59-72-102	66-80-114	72-88-125	77-95-135
					22 1/2°	16-26-50	24-35-58	30-44-64	35-50-70	42-54-76	47-58-82	53-64-91	58-70-100	62-76-108
28 x 28	30 x 26 36 x 22 40 x 20	5.20		CFM		1560	2080	2600	3120	3640	4160	5200	6240	7280
				Noise Criteria		—	—	20	25	30	34	40	46	51
				Throw	0°	21-34-63	30-45-74	38-56-82	45-63-90	53-69-97	60-74-104	67-82-116	74-90-128	79-97-137
					22 1/2°	17-27-50	24-36-59	30-45-66	36-50-72	42-54-78	48-59-83	54-66-93	59-72-102	63-78-110
42 x 20	30 x 28	5.57		CFM		1671	2228	2785	3342	3899	4456	5570	6684	7798
				Noise Criteria		—	—	20	25	30	34	40	46	51
				Throw	0°	22-35-66	31-47-76	39-58-84	47-66-93	55-71-100	62-76-107	70-84-120	76-93-131	82-100-142
					22 1/2°	18-28-53	25-38-61	31-46-67	38-53-74	44-57-80	50-61-86	56-67-96	61-74-105	66-80-114
36 x 24	40 x 22 44 x 20	5.74		CFM		1722	2296	2870	3444	4018	4592	5740	6888	8036
				Noise Criteria		—	—	20	25	30	34	40	46	51
				Throw	0°	23-36-68	32-49-78	41-60-88	49-68-96	57-74-104	64-78-112	72-88-124	78-96-137	85-104-148
					22 1/2°	18-29-54	26-39-62	33-48-70	39-54-77	46-59-83	51-62-90	58-70-99	62-77-110	68-83-118
30 x 30	34 x 26 38 x 24 48 x 20	5.99		CFM		1797	2396	2995	3594	4193	4792	5990	7188	8386
				Noise Criteria		—	—	20	25	30	34	40	46	51
				Throw	0°	23-36-69	33-49-80	41-61-89	49-69-98	57-75-106	65-80-113	73-89-126	80-98-138	86-106-150
					22 1/2°	18-29-55	26-39-64	33-49-71	39-55-78	46-60-85	52-64-90	58-71-101	64-78-110	69-85-120
42 x 24	36 x 28 42 x 24 46 x 22	6.72		CFM		2016	2688	3360	4032	4704	5376	6720	8064	9408
				Noise Criteria		—	—	21	26	31	35	41	47	52
				Throw	0°	24-39-72	34-51-84	43-64-93	51-72-102	60-78-111	68-84-118	77-93-132	84-102-144	90-111-157
					22 1/2°	19-31-58	27-41-67	34-51-74	41-58-82	48-62-89	54-67-94	62-74-106	67-82-115	72-89-126
32 x 32	40 x 26	6.84		CFM		2052	2736	3420	4104	4788	5472	6840	8208	9576
				Noise Criteria		—	—	21	26	31	35	41	47	52
				Throw	0°	24-39-73	34-52-84	43-65-94	52-73-103	61-79-112	69-84-119	77-94-133	84-103-146	91-112-158
					22 1/2°	19-31-58	27-42-67	34-52-75	42-58-82	49-63-90	55-67-95	62-75-106	67-82-117	72-89-126
36 x 30	38 x 28	7.22		CFM		2166	2888	3610	4332	5054	5776	7220	8664	10108
				Noise Criteria		—	—	21	26	31	35	41	47	52
				Throw	0°	25-40-76	36-54-87	45-68-98	54-76-108	63-82-116	71-87-124	80-98-139	87-108-151	94-116-164
					22 1/2°	20-32-61	29-43-70	36-54-78	43-61-86	50-66-93	57-70-99	64-78-111	70-86-121	75-93-131
48 x 24	34 x 34 36 x 32 38 x 30 42 x 28	7.69		CFM		2307	3076	3845	4614	5383	6152	7690	9228	10766
				Noise Criteria		—	—	22	27	32	36	42	48	53
				Throw	0°	26-41-77	37-55-90	46-69-100	55-77-109	64-84-118	73-90-127	82-100-142	90-109-155	97-118-167
					22 1/2°	21-33-62	30-44-72	37-55-80	44-62-87	51-67-94	58-72-102	66-80-114	72-87-124	78-94-134
Throw	45°	13-22-39	19-28-45	23-45-50	28-39-55	32-42-59	37-45-64	41-50-71	45-55-78	49-59-84				

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Listed Duct Size (inches)	Alternate Sizes (inches)	Core Area (sq. ft.)	Ak Factor	Core Velocity		300	400	500	600	700	800	1000	1200	1400
				Velocity	Pressure	.006	.010	.016	.022	.031	.040	.062	.090	.122
36 x 34	38 x 32 40 x 30 48 x 26	8.20		CFM		2460	3280	4100	4920	5740	6560	8200	9840	11480
				Noise Criteria		–	15	22	27	32	36	42	48	53
				Throw	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° 45°	21-34-63 13-21-40	30-46-73 19-29-	38-56-82 24-35-51	46-63-89 29-40-56	52-68-97 33-43-61	60-73-103 38-46-65	67-82-115 42-51-72	73-89-126 46-56-79	78-97-137 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
				Noise Criteria		–	15	22	27	32	36	42	48	53
				Throw	0°	28-45-84	36-60-96	49-74-108	60-84-117	69-90-127	78-96-136	88-108-152	96-117-166	104-127-180
					22 1/2° 45°	22-36-67 14-23-42	31-48-77 20-30-48	39-59-86 25-37-54	48-67-94 30-42-59	55-72-102 35-45-64	62-77-109 39-48-68	70-86-122 44-54-76	77-94-133 48-59-83	83-102-144 52-64-90
38 x 38	42 x 34	9.70		CFM		2910	3880	4850	5820	6790	7760	9700	11640	13580
				Noise Criteria		–	16	23	28	33	37	43	49	54
				Throw	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° 45°	22-38-70 14-24-44	34-50-81 21-31-51	42-62-91 27-39-57	50-70-100 31-44-63	58-76-107 37-48-67	66-81-114 42-51-72	74-91-129 47-57-81	81-100-141 51-63-88	87-107-152 55-67-95
42 x 36	44 x 34 48 x 30	10.16		CFM		3048	4064	5080	6096	7112	8128	10160	12192	14224
				Noise Criteria		–	16	23	28	33	37	43	49	54
				Throw	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° 45°	23-38-72 15-24-45	34-51-83 22-32-52	42-64-94 27-40-59	51-72-102 32-45-64	60-78-110 38-49-69	68-83-118 43-52-74	76-94-132 48-59-83	83-102-144 52-64-90	90-110-156 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
				Noise Criteria		–	16	23	28	33	37	43	49	54
				Throw	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° 45°	25-40-75 16-25-47	35-54-86 22-34-54	45-67-97 28-42-61	54-75-106 34-47-66	62-82-114 39-51-72	70-86-122 44-54-72	79-97-137 54-61-86	86-106-150 54-66-94	94-114-162 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
				Noise Criteria		–	17	24	29	34	38	44	50	55
				Throw	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	122-145-210
					22 1/2° 45°	26-42-78 16-26-49	37-55-90 23-35-56	46-69-100 29-43-63	55-78-110 35-49-69	65-84-119 41-53-75	74-90-127 46-56-80	82-100-142 51-63-89	90-110-156 56-69-98	98-119-168 61-75-105
44 x 44	46 x 42	13.07		CFM		3921	5228	6535	7842	9149	10456	13070	15684	18298
				Noise Criteria		–	17	24	29	34	38	44	50	55
				Throw	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° 45°	27-44-83 17-28-52	39-59-96 25-37-60	49-74-106 31-46-67	59-83-117 37-52-73	69-90-126 43-56-79	78-96-134 49-60-84	87-106-151 55-67-95	96-117-166 60-73-104	103-126-178 65-79-112
46 x 46		14.30		CFM		4290	5720	7150	8580	10010	11440	14300	17160	20020
				Noise Criteria		–	17	24	29	34	38	44	50	55
				Throw	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° 45°	28-46-86 18-29-54	41-61-99 26-38-62	50-76-110 32-48-69	61-86-121 38-54-76	71-93-130 45-58-82	81-99-139 51-62-87	90-110-156 57-69-98	99-121-171 62-76-107	107-130-185 62-82-116
48 x 48		15.59		CFM		4677	6236	7795	9354	10913	12472	15590	18708	21826
				Noise Criteria		–	18	25	30	35	39	45	51	56
				Throw	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° 45°	30-48-90 19-30-57	42-64-105 27-40-66	54-80-117 34-50-73	64-90-127 40-57-80	75-98-138 47-61-87	85-105-148 53-66-93	95-117-165 60-73-103	105-127-181 62-80-113	112-138-195 70-87-122

GRILLES AND REGISTERS

F

Performance Notes:

- All pressures are in inches w.g..
- Core velocity is in feet per minute.
- Throw values are given for terminal velocities of 150, 100 and 50 fpm under isothermal conditions.
- Performance data is based on double deflection grille with opposed blade damper (register).
- 0°, 22 1/2° and 45° represent vertical blade deflection angles and horizontal spread.
- Additional performance notes and correction factors for various models and settings may be found on page F73.
- Noise Criteria (NC) values are based on a room absorption of 10 dB, re 10⁻¹² watts. Dash (-) in space denotes a NC level of less than 15.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.