20/30
AIRFOIL SUPPLY GRILLE

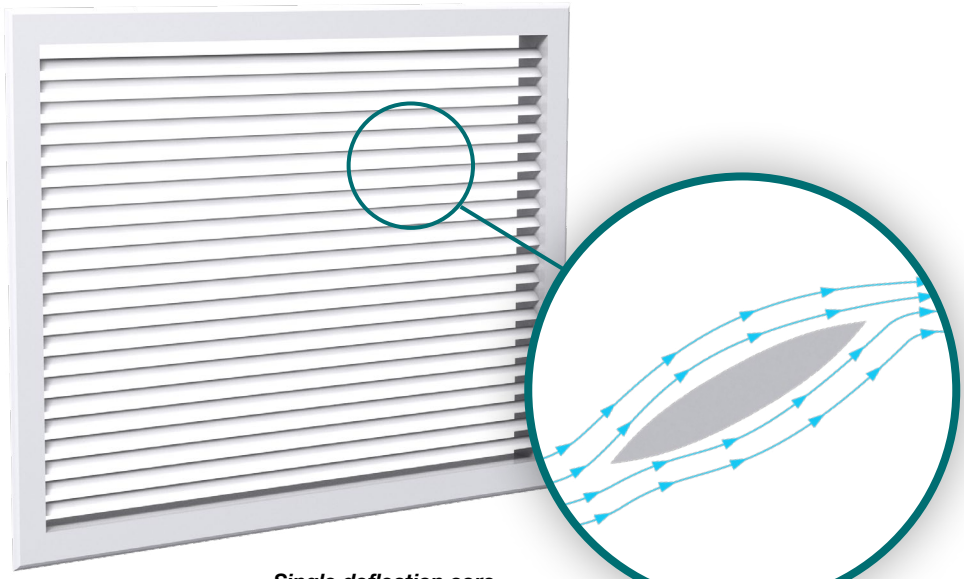




price | GRILLES

20/30
Airfoil Supply Grille

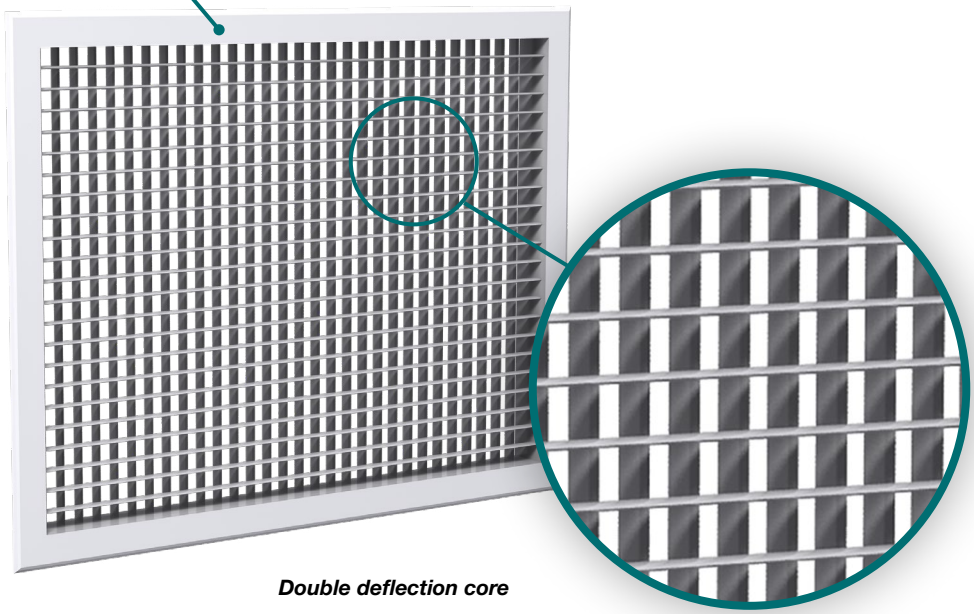
The 20/30 Series Airfoil Supply Grille features premium quality, extruded aluminum construction. Individual blades are fully adjustable and the airfoil shape helps to reduce turbulence, leading to low sound and pressure drops.



Single deflection core

Airfoil blades provide superior performance compared to conventional louver blades

Easily integrated with multiple border and mounting options



Double deflection core

Optional double deflection core for additional air pattern control

MULTIPLE CONFIGURATIONS

+ A variety of construction options allow for complete customization and a product that is well suited to most spaces.
+ The 20/30 Series is available with a choice of either a single or double deflection core, five border styles, four fastening options and optional mounting frames.



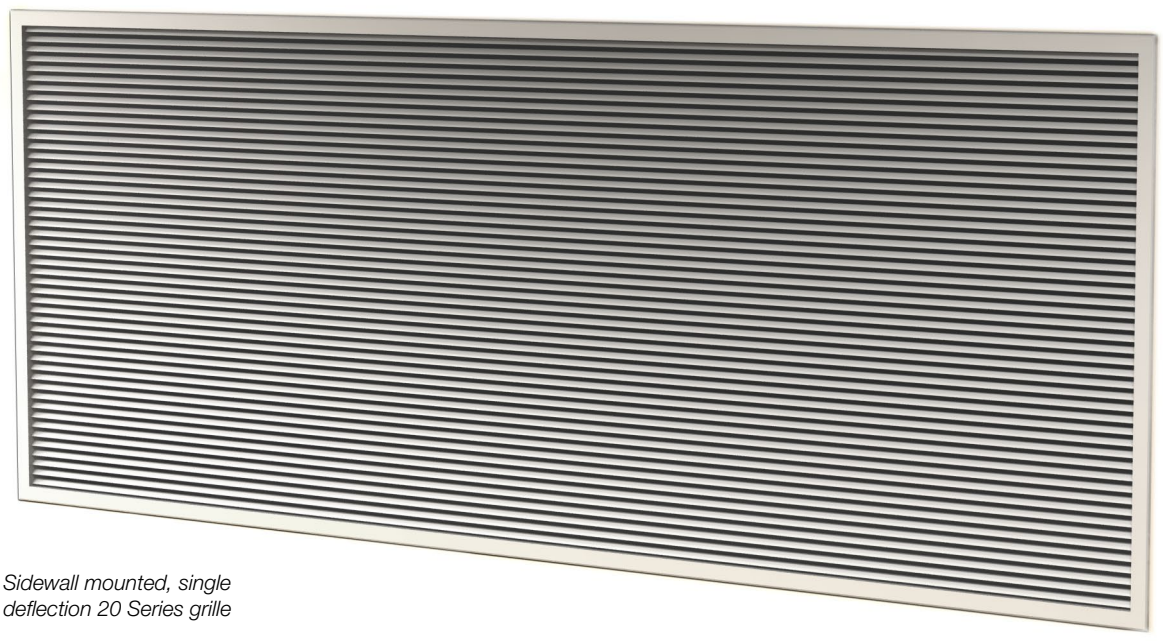
Optional damper (reverse)

TYPICAL APPLICATIONS

The clean lines and extruded aluminum frame and blades make the 20/30 Series airfoil supply grille well suited to architectural applications.

CONSTRUCTION

+ Model
  - 21 - 3/4 in. spacing, single deflection
  - 22 - 3/4 in. spacing, double deflection
  - 31 - 1/2 in. spacing, single deflection
  - 32 - 1/2 in. spacing, double deflection
+ Available Sizes
  - Maximum one piece: 36 in. x 96 in.
  - Oversized construction available
+ Options
  - Steel damper
  - Aluminum damper



Sidewall mounted, single deflection 20 Series grille

PERFORMANCE DATA

Size									NC 20		NC 30		NC 40	
	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800
	Velocity Pressure (in. w.g.)		0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	0.159	0.202
	Total Pressure (in. w.g.)	0°	0.010	0.017	0.028	0.038	0.052	0.069	0.107	0.156	0.211	0.275	0.349
		22.5°	0.011	0.019	0.031	0.043	0.058	0.078	0.120	0.175	0.237	0.308	0.392
		45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356	0.464	0.590
Ac = 0.15 ft² 7 x 4 6 x 5	Flow Rate (cfm)		45	60	75	90	105	120	150	180	210	240	270
	Sound (NC)		-	-	-	-	-	17	23	29	34	38	41
	Throw (ft)	0°	4-6-12	5-8-14	7-10-16	8-12-17	9-13-19	11-14-20	13-16-22	14-17-24	15-19-26	16-20-28	17-22-30
		22.5°	3-5-10	4-6-11	6-8-13	6-10-14	7-10-15	9-11-16	10-13-18	11-14-19	12-15-21	13-16-22	14-18-24
		45°	2-3-6	3-4-7	3-5-8	4-6-9	5-7-9	5-7-10	6-8-11	7-9-12	8-9-13	8-10-14	9-11-15
Ac = 0.18 ft² 8 x 4 7 x 5 6 x 6	Flow Rate (cfm)		55	70	90	110	125	145	180	215	250	290	325
	Sound (NC)		-	-	-	-	15	19	25	31	36	40	43
	Throw (ft)	0°	4-7-13	6-8-15	7-11-17	9-13-19	10-15-20	11-16-22	14-17-24	15-19-26	17-21-29	18-22-31	19-24-33
		22.5°	3-6-10	5-6-12	6-9-14	7-10-15	8-12-16	9-13-18	11-14-19	12-15-21	14-17-23	14-18-25	15-19-26
		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	9-11-15	10-12-16
Ac = 0.22 ft² 10 x 4 8 x 5 7 x 6	Flow Rate (cfm)		65	90	110	130	155	175	220	265	310	350	395
	Sound (NC)		-	-	-	-	15	19	25	31	36	40	43
	Throw (ft)	0°	4-7-14	7-10-17	8-12-19	9-15-21	11-16-23	13-17-24	16-19-27	17-21-29	19-23-32	20-25-34	21-26-36
		22.5°	3-611	6-8-14	6-10-15	7-12-17	9-13-18	10-14-19	13-15-22	14-17-23	15-18-26	16-20-27	17-21-29
		45°	2-4-7	3-5-9	4-6-10	5-7-10	6-6-11	6-9-12	8-10-13	9-11-15	9-12-16	10-12-17	11-13-18
Ac = 0.26 ft² 12 x 4 10 x 5 8 x 6	Flow Rate (cfm)		80	105	130	155	180	210	260	310	365	415	470
	Sound (NC)		-	-	-	-	16	20	26	32	37	41	44
	Throw (ft)	0°	5-8-16	7-11-19	9-13-21	10-16-23	12-17-24	14-19-26	17-21-29	19-23-32	20-25-35	22-26-37	23-27-40
		22.5°	4-6-13	6-9-15	7-10-17	8-13-18	10-14-19	11-15-21	14-17-23	15-18-26	16-20-28	18-21-30	18-22-32
		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	11-13-18	12-14-20
Ac = 0.30 ft² 14 x 4	Flow Rate (cfm)		90	120	150	180	210	240	300	360	420	480	540
	Sound (NC)		-	-	-	-	16	20	26	32	37	41	44
	Throw (ft)	0°	5-9-17	8-11-20	9-14-22	11-17-24	13-19-26	15-20-28	18-23-31	20-25-34	22-27-37	24-29-40	25-30-42
		22.5°	4-714	6-9-16	7-11-18	9-14-19	10-15-21	12-16-22	14-18-25	16-20-27	18-22-30	19-23-32	20-24-34
		45°	3-4-8	4-6-10	5-7-11	6-8-12	7-9-13	8-10-14	9-11-16	10-12-17	11-13-19	12-14-20	12-15-21
Ac = 0.34 ft² 16 x 4 12 x 5 10 x 6	Flow Rate (cfm)		100	135	170	205	240	270	340	410	475	545	610
	Sound (NC)		-	-	-	-	17	21	27	33	38	42	45
	Throw (ft)	0°	5-9-18	8-12-21	10-15-24	12-19-26	14-20-28	16-22-30	20-24-33	22-26-37	23-28-40	25-30-42	26-32-45
		22.5°	4-714	6-10-17	8-12-19	10-15-21	11-16-22	13-18-24	16-19-26	18-21-30	18-22-32	20-24-34	21-26-36
		45°	3-4-9	4-6-11	5-8-12	6-9-13	7-10-14	8-11-15	10-12-17	11-13-18	12-14-20	12-15-21	13-16-22
Ac = 0.39 ft² 18 x 4 14 x 5 12 x 6 8 x 8	Flow Rate (cfm)		115	155	195	235	275	310	390	470	545	625	700
	Sound (NC)		-	-	-	-	18	22	28	34	39	43	46
	Throw (ft)	0°	6-9-19	9-13-23	11-16-25	13-19-28	15-22-30	17-23-32	21-26-36	23-27-40	25-30-42	27-33-45	28-35-48
		22.5°	5-7-15	7-10-18	9-13-20	10-15-22	12-18-24	14-18-26	17-21-29	18-22-32	20-24-34	22-26-36	22-28-38
		45°	3-5-10	4-6-11	5-8-13	7-10-14	8-11-15	9-12-16	11-13-18	12-14-20	12-15-21	13-16-23	14-17-24
								NC 20		NC 30		NC 40	

For performance notes, see end of section.

PERFORMANCE DATA

								NC 20		NC 30		NC 40		
Size	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800
	Velocity Pressure (in. w.g.)		0.006	0.01	0.016	0.022	0.03	0.04	0.062	0.09	0.122	0.159	0.202
	Total Pressure (in. w.g.)	0°	0.01	0.017	0.028	0.038	0.052	0.069	0.107	0.156	0.211	0.275	0.349
		22.5°	0.011	0.019	0.031	0.043	0.058	0.078	0.12	0.175	0.237	0.308	0.392
		45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356	0.464	0.59
Ac = 0.46 ft²	Flow Rate (cfm)		140	185	230	275	320	370	460	550	645	735	830
20 x 4	Sound (NC)		-	-	-	-	18	22	28	34	39	43	46
16 x 5	Throw (ft)	0°	7-10-22	9-14-25	12-17-27	14-22-30	16-23-32	19-25-35	23-27-39	25-31-43	27-33-46	29-35-49	31-38-52
14 x 6		22.5°	6-8-18	7-11-20	10-14-22	11-18-24	13-18-26	15-20-28	18-22-31	20-25-34	22-26-37	23-28-39	25-30-42
10 x 8		45°	3-5-11	5-7-12	6-9-11	7-11-15	8-11-16	10-13-17	11-14-20	12-15-21	14-17-23	14-18-24	15-19-26
Ac = 0.52 ft²	Flow Rate (cfm)		155	210	260	310	365	415	520	625	730	830	935
24 x 4	Sound (NC)		-	-	-	-	19	23	29	35	40	44	47
18 x 5	Throw (ft)	0°	7-11-23	10-15-26	13-19-29	15-22-32	18-25-35	20-26-37	24-30-41	27-33-45	29-35-49	31-38-52	32-40-55
16 x 6		22.5°	6-9-18	8-12-21	10-15-23	12-18-26	14-20-28	16-21-30	19-24-33	22-26-36	23-28-39	25-30-42	26-32-44
		45°	3-5-11	5-7-13	6-9-15	8-11-16	9-12-17	10-13-18	12-15-21	13-16-23	14-18-24	15-19-26	16-20-28
Ac = 0.60 ft²	Flow Rate (cfm)		180	240	300	360	420	480	600	720	840	960	1080
28 x 4	Sound (NC)		-	-	-	15	20	24	30	36	41	45	48
20 x 5	Throw (ft)	0°	7-12-24	11-16-28	14-20-31	16-24-34	19-27-37	22-29-40	26-32-45	29-35-48	31-38-52	23-40-56	35-43-59
18 x 6		22.5°	6-10-19	9-13-22	11-16-25	13-19-27	15-22-30	18-23-32	21-26-36	23-26-38	25-30-42	26-32-45	28-34-47
12 x 8		45°	4-6-12	5-8-14	7-10-16	8-12-17	10-13-19	11-14-20	13-16-22	14-17-24	15-19-26	16-20-28	17-21-29
10 x 10													
Ac = 0.69 ft²	Flow Rate (cfm)		205	275	345	415	485	550	690	830	965	1100	1240
30 x 4	Sound (NC)		-	-	-	15	20	24	30	36	41	45	48
24 x 5	Throw (ft)	0°	8-13-26	12-17-30	15-22-34	18-26-37	21-29-40	24-31-43	28-34-47	30-38-52	33-40-56	35-43-60	37-45-63
20 x 6		22.5°	6-10-21	10-14-24	12-18-27	14-21-30	17-23-32	19-25-34	22-27-38	24-30-42	26-32-45	28-34-48	30-36-50
14 x 8		45°	4-6-13	6-9-15	7-11-17	9-13-18	10-14-20	12-15-21	14-17-24	15-19-26	16-20-28	18-22-30	19-23-31
12 x 10													
Ac = 0.81 ft²	Flow Rate (cfm)		245	325	405	485	565	650	810	970	1130	1300	1460
36 x 4	Sound (NC)		-	-	-	16	21	25	31	37	42	46	49
28 x 5	Throw (ft)	0°	8-14-28	13-19-33	16-23-37	19-28-40	23-31-43	26-33-46	30-37-51	33-41-56	36-44-60	38-45-64	40-49-68
22 x 6		22.5°	6-11-22	10-15-26	13-18-30	15-22-32	18-25-34	21-26-37	24-30-41	26-33-45	29-35-48	30-37-51	32-39-54
16 x 8		45°	4-7-14	6-9-16	8-12-18	10-14-20	11-15-22	13-17-23	15-19-26	17-20-28	18-22-30	19-23-32	20-25-34
14 x 10													
Ac = 0.90 ft²	Flow Rate (cfm)		270	360	450	540	630	720	900	1080	1260	1440	1620
40 x 4	Sound (NC)		-	-	-	16	21	25	31	37	42	46	49
30 x 5	Throw (ft)	0°	9-15-30	14-20-34	17-25-39	21-30-42	24-33-45	27-35-48	32-39-55	35-43-59	37-46-63	40-49-68	42-52-72
26 x 6		22.5°	7-12-24	11-16-27	14-20-31	17-24-34	19-26-36	22-28-38	26-31-44	28-34-47	30-37-50	32-39-54	34-42-58
18 x 8		45°	5-8-15	7-10-17	9-13-19	10-15-21	12-16-23	14-17-24	16-20-27	17-21-29	19-23-32	20-24-34	21-26-36
16 x 10													
12 x 12													
Ac = 1.07 ft²	Flow Rate (cfm)		320	430	535	640	750	855	1070	1280	1500	1710	1930
48 x 4	Sound (NC)		-	-	-	16	21	25	31	37	42	46	49
36 x 5	Throw (ft)	0°	10-16-32	15-22-38	18-28-42	22-33-46	26-36-49	29-38-53	35-43-59	38-46-64	41-50-69	43-53-74	46-57-79
30 x 6		22.5°	8-13-26	12-18-30	14-22-34	18-26-37	21-29-39	23-30-42	28-34-47	30-37-51	33-40-55	34-42-59	37-46-63
18 x 10		45°	5-8-16	7-11-19	9-14-21	11-17-23	13-18-25	14-19-26	17-21-29	19-23-32	20-25-35	22-27-37	23-28-40
14 x 12													
							NC 20		NC 30		NC 40		

For performance notes, see end of section.

PERFORMANCE DATA

Size							NC 20		NC 30		NC 40			NC 50
	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800	
	Velocity Pressure (in. w.g.)		0.006	0.01	0.016	0.022	0.03	0.04	0.062	0.09	0.122	0.159	0.202	
	Total Pressure (in. w.g.)	0°	0.01	0.017	0.028	0.038	0.052	0.069	0.107	0.156	0.211	0.275	0.349	
		22.5°	0.011	0.019	0.031	0.043	0.058	0.078	0.129	0.175	0.237	0.308	0.392	
		45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356	0.464	0.590	
Ac = 1.18 ft²	Flow Rate (cfm)		355	470	590	710	825	945	1180	1420	1650	1890	2120	
34 x 6	Sound (NC)		-	-	-	17	22	26	32	38	43	47	50	
24 x 8	Throw (ft)	0°	10-17-34	15-23-40	19-28-44	23-35-48	27-38-52	31-40-56	36-45-62	40-48-67	43-52-73	45-56-78	48-59-83	
20 x 10		22.5°	8-14-27	12-18-32	15-22-35	18-28-38	22-30-42	25-32-45	29-36-50	32-38-54	34-42-58	36-45-62	38-47-66	
16 x 12		45°	5-8-17	8-11-20	10-14-22	12-17-24	13-19-26	15-20-28	18-22-31	20-24-34	21-26-36	22-28-39	24-30-41	
14 x 14														
Ac = 1.34 ft²	Flow Rate (cfm)		400	535	670	805	940	1070	1340	1610	1880	2140	2410	
60 x 4	Sound (NC)		-	-	-	18	23	27	33	39	44	48	51	
48 x 5	Throw (ft)	0°	11-18-36	16-24-42	20-30-47	24-37-51	28-40-56	32-43-59	39-47-65	42-52-72	45-56-78	48-60-83	51-63-89	
36 x 6		22.5°	9-14-29	13-19-34	16-24-38	19-30-41	22-32-45	26-34-47	31-38-52	34-42-58	36-45-62	38-48-66	41-50-71	
18 x 12		45°	6-9-18	8-12-21	10-15-23	12-18-25	14-20-28	16-21-29	19-23-33	21-26-36	23-28-39	24-30-42	26-32-44	
16 x 14														
Ac = 1.60 ft²	Flow Rate (cfm)		480	640	800	960	1120	1280	1600	1920	2240	2560	2880	
72 x 4	Sound (NC)		-	-	-	18	23	27	33	39	44	48	51	
30 x 8	Throw (ft)	0°	13-20-40	18-26-46	22-32-51	27-39-56	31-43-60	35-46-64	42-51-72	46-56-79	49-61-85	53-65-91	56-69-97	
24 x 10 16 x 16		22.5°	10-16-32	14-21-37	18-26-41	22-31-45	25-34-48	28-37-51	34-41-58	37-45-63	39-49-68	42-52-73	45-55-78	
22 x 12		45°	6-10-20	9-13-23	11-16-25	13-20-28	15-22-30	17-23-32	21-26-36	23-28-39	25-30-43	26-32-46	28-35-48	
18 x 14														
Ac = 1.80 ft²	Flow Rate (cfm)		540	720	900	1080	1260	1440	1800	2160	2520	2880	3240	
60 x 5	Sound (NC)		-	-	-	19	24	28	34	40	45	49	52	
48 x 6 20 x 14	Throw (ft)	0°	13-21-42	19-28-48	24-35-55	29-43-59	32-46-63	37-49-68	45-55-76	48-60-84	52-65-90	56-69-97	60-73-103	
36 x 8 18 x 16		22.5°	10-17-34	15-22-38	19-28-44	23-34-47	26-37-50	30-39-54	36-44-61	38-48-67	42-52-72	45-55-78	48-58-82	
30 x 10		45°	7-11-21	9-14-24	12-17-27	14-21-29	16-23-32	19-24-34	22-27-38	24-30-42	26-32-45	28-35-48	30-37-51	
24 x 12														
Ac = 2.08 ft²	Flow Rate (cfm)		625	830	1040	1250	1460	1660	2080	2500	2910	3330	3740	
72 x 5	Sound (NC)		-	-	-	19	24	28	34	40	45	49	52	
60 x 6 24 x 14	Throw (ft)	0°	14-23-45	20-30-52	26-38-58	30-44-63	35-49-68	40-53-73	48-59-82	52-64-90	56-69-97	60-75-104	64-79-110	
40 x 8 20 x 16		22.5°	11-18-36	16-24-42	21-30-46	24-35-50	28-39-54	32-42-58	38-47-66	42-51-72	45-55-78	48-60-83	51-63-88	
36 x 10 18 x 18		45°	7-11-23	10-15-26	13-19-29	15-22-32	17-25-34	20-36-37	24-29-41	26-32-45	28-35-48	30-37-52	32-40-55	
30 x 12														
Ac = 2.45 ft²	Flow Rate (cfm)		735	980	1220	1470	1720	1960	2450	2940	3430	3920	4410	
72 x 6	Sound (NC)		-	-	15	20	25	29	35	41	46	50	53	
48 x 8 20 x 18	Throw (ft)	0°	15-25-49	22-35-57	27-40-62	32-48-68	38-54-74	48-57-80	52-64-89	57-70-97	61-76-106	65-81-113	70-87-120	
32 x 12 20 x 20		22.5°	12-20-39	18-26-46	22-32-50	26-38-54	30-43-59	34-46-64	42-51-71	46-56-78	49-61-85	52-65-90	56-70-96	
26 x 14		45°	7-12-24	11-16-28	14-20-31	16-24-34	19-27-37	22-28-40	26-32-45	28-35-49	32-38-53	33-42-55	21-26-36	
24 x 16														
Ac = 2.78 ft²	Flow Rate (cfm)		835	1110	1390	1670	1950	2220	2780	3340	3890	4450	5000	
36 x 12	Sound (NC)		-	-	16	21	26	30	36	42	47	51	54	
30 x 14	Throw (ft)	0°	16-26-52	23-34-60	29-42-67	34-50-73	40-57-79	45-61-85	55-68-95	60-75-104	65-81-112	70-87-122	74-93-128	
26 x 16		22.5°	13-21-42	18-27-48	23-34-54	28-40-58	32-46-63	36-49-68	44-54-76	48-60-83	52-65-90	56-70-98	59-74-102	
24 x 18		45°	8-13-26	12-17-30	14-21-33	17-25-37	20-28-40	23-30-42	28-34-47	30-37-52	33-40-56	35-43-61	37-46-64	
22 x 20														
						NC 20			NC 30	NC 40		NC 50		

For performance notes, see end of section.

PERFORMANCE DATA

Size			300	400	500	600	700	800	1000	1200	1400	1600	1800
						NC 20			NC 30	NC 40		NC 50	
	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800
	Velocity Pressure (in. w.g.)		0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	0.159	0.202
	Total Pressure (in. w.g.)	0°	0.010	0.017	0.028	0.038	0.052	0.069	0.107	0.156	0.211	0.275	0.349
		22.5°	0.011	0.019	0.031	0.043	0.058	0.078	0.129	0.175	0.237	0.308	0.392
		45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356	0.464	0.590
Ac = 3.11 ft²	Flow Rate (cfm)		935	1240	1560	1870	2180	2490	3110	3730	4350	4980	5600
60 x 8	Sound (NC)		-	-	16	21	26	30	36	42	47	51	54
30 x 16, 48 x 10, 26 x 18, 40 x 12 — 24 x 20, 36 x 14	Throw (ft)	0°	17-27-55	24-36-63	34-45-71	41-53-78	47-60-84	48-64-90	58-72-100	64-79-110	69-86-118	74-92-128	79-97-135
		22.5°	14-22-44	20-29-50	27-36-57	33-42-62	38-48-67	38-51-72	46-58-80	51-63-88	55-69-94	59-74-102	63-78-108
		45°	8-14-28	12-18-31	17-22-35	20-26-39	23-30-42	24-32-45	29-36-50	32-40-55	35-43-59	37-46-64	40-49-67
Ac = 3.61 ft²	Flow Rate (cfm)		1080	1440	1800	2170	2530	2890	3610	4330	5050	5780	6500
72 x 8	Sound (NC)		-	-	17	22	27	31	37	43	48	52	55
60 x 10, 48 x 12, 36 x 16, 30 x 18 — 28 x 20, 24 x 24	Throw (ft)	0°	18-29-59	26-38-63	32-47-76	35-56-84	44-65-90	51-69-97	53-78-108	69-86-118	75-91-128	80-99-137	86-105-146
		22.5°	14-23-47	21-30-54	26-38-61	30-45-67	35-52-72	41-55-78	50-62-86	55-69-94	60-74-102	60-79-110	69-84-117
		45°	9-14-29	13-19-34	16-23-38	19-28-42	22-32-45	25-35-48	31-39-54	35-43-59	38-46-64	40-50-69	43-52-73
Ac = 4.29 ft²	Flow Rate (cfm)		1290	1720	2140	2570	3000	3430	4290	5150	6010	6860	7720
48 x 14	Sound (NC)		-	-	18	23	28	32	38	44	49	53	56
36 x 18, 32 x 20, 28 x 24	Throw (ft)	0°	19-31-64	28-41-74	35-50-83	42-60-91	49-71-98	56-76-106	69-85-118	76-93-130	82-102-140	88-108-149	92-115-158
		22.5°	15-25-51	22-33-59	28-40-66	34-48-73	39-57-78	45-61-85	55-68-94	61-74-104	66-82-112	70-86-119	74-92-126
		45°	10-15-32	14-20-37	17-25-42	21-30-46	24-35-49	28-38-53	34-43-59	38-47-65	41-51-70	44-54-75	46-57-79
Ac = 4.65 ft²	Flow Rate (cfm)		1400	1860	2320	2790	3260	3720	4650	5580	6510	7440	8370
72 x 10	Sound (NC)		-	-	18	23	28	32	38	44	49	53	56
48 x 16, 36 x 20, 30 x 24	Throw (ft)	0°	20-33-67	29-43-78	36-54-87	44-65-95	51-74-103	58-79-110	72-89-123	79-97-135	86-105-146	91-113-156	96-120-164
		22.5°	16-26-54	23-34-62	29-43-70	35-52-76	41-59-82	46-63-88	58-71-98	63-78-108	69-84-117	73-90-125	77-96-131
		45°	10-16-33	15-22-39	18-27-43	22-32-48	25-37-52	29-40-55	36-44-61	39-49-67	43-52-73	46-56-78	48-60-82
Ac = 5.58 ft²	Flow Rate (cfm)		1670	2230	2790	3350	3910	4460	5580	6700	7810	8930	10,000
72 x 12	Sound (NC)		-	-	19	24	29	33	39	45	50	54	57
60 x 14, 48 x 18, 36 x 24	Throw (ft)	0°	22-36-73	31-47-85	40-59-95	47-72-104	55-81-113	63-87-122	79-97-135	87-107-148	93-116-160	100-125-171	106-132-180
		22.5°	18-29-58	25-38-68	32-47-76	38-58-83	44-65-90	50-70-98	63-78-108	70-86-118	74-93-130	80-100-137	85-105-140
		45°	11-18-37	16-23-43	20-30-48	23-36-52	28-41-57	31-44-61	39-49-67	43-53-74	47-53-80	50-62-86	53-66-90
Ac = 6.25 ft²	Flow Rate (cfm)		1880	2500	3120	3750	4380	5000	6250	7500	8750	10,000	11,200
72 x 14	Sound (NC)		-	-	20	25	30	34	40	46	51	55	58
60 x 16, 48 x 20, 30 x 30	Throw (ft)	0°	23-37-78	33-49-90	42-62-100	50-75-103	58-85-119	67-93-128	84-104-143	92-113-156	98-123-169	106-132-180	112-140-192
		22.5°	18-30-62	26-39-72	34-50-80	40-60-82	46-69-95	54-74-102	67-83-114	74-90-125	78-98-135	85-105-140	90-112-153
		45°	12-19-39	17-25-45	21-31-50	25-37-51	29-43-60	34-46-64	42-52-72	46-57-78	49-61-85	53-66-90	56-70-96
						NC 20		NC 30		NC 40	NC 50		

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2023 *Method of Testing for Rating the Performance of Air Outlets and Inlets.*
2. Airflow is in cubic feet per minute [cfm].
3. NC, sound pressure levels, are based on a room absorption of 10 dB re 10^{-12} Watts, and a single diffuser/grille.
4. Blanks "-" indicate an NC level below 15.
5. All pressures are in inches of water column [in. w.g.].
6. Pressures not listed can be calculated using the following formula:
   $P_{total} = P_{static} + P_{velocity}$
7. Throw data is based on supply air and room air being at isothermal conditions1.
8. Throw data is given in feet [ft] to terminal velocities of:
   150 fpm (minimum)
   100 fpm (middle)
   50 fpm (maximum)
9. **Deflection** - The listed deflection settings refer to horizontal deflection. For a 20° upward deflection, use the room throw rating for a 0° setting and the total pressure for a 22 1/2° horizontal setting. The performance tables are based on registers with core style 22 with an opposed blade damper. The performance of other core styles, with or without dampers, can be obtained by the application of correction factors to the tabulated performance data. The table of correction factors is included on this page.
10. The performance tables are based on registers with F border. For ED border, the correction factors on this page must be applied due to the reduced core area for this border.

Corrections for Various Core Styles

Core Style	AK/AC	Multiply		Add NC
		Throw	Total Pressure	
21 & 22 With Damper	0.78	1.0	1.0	0
21 & 22 No Damper	0.83	0.97	0.88	-4
31 & 32 With Damper	0.68	1.07	1.32	0
31 & 32 No Damper	0.72	1.04	1.17	-2

Listed Core Area	Multiply		Add NC
	Throw	Total Pressure	
0.15-0.30	1.30	2.6	+15
0.34-0.90	1.14	1.7	+10
1.07-1.80	1.08	1.5	+5
2.08-6.25	1.04	1.2	+2

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