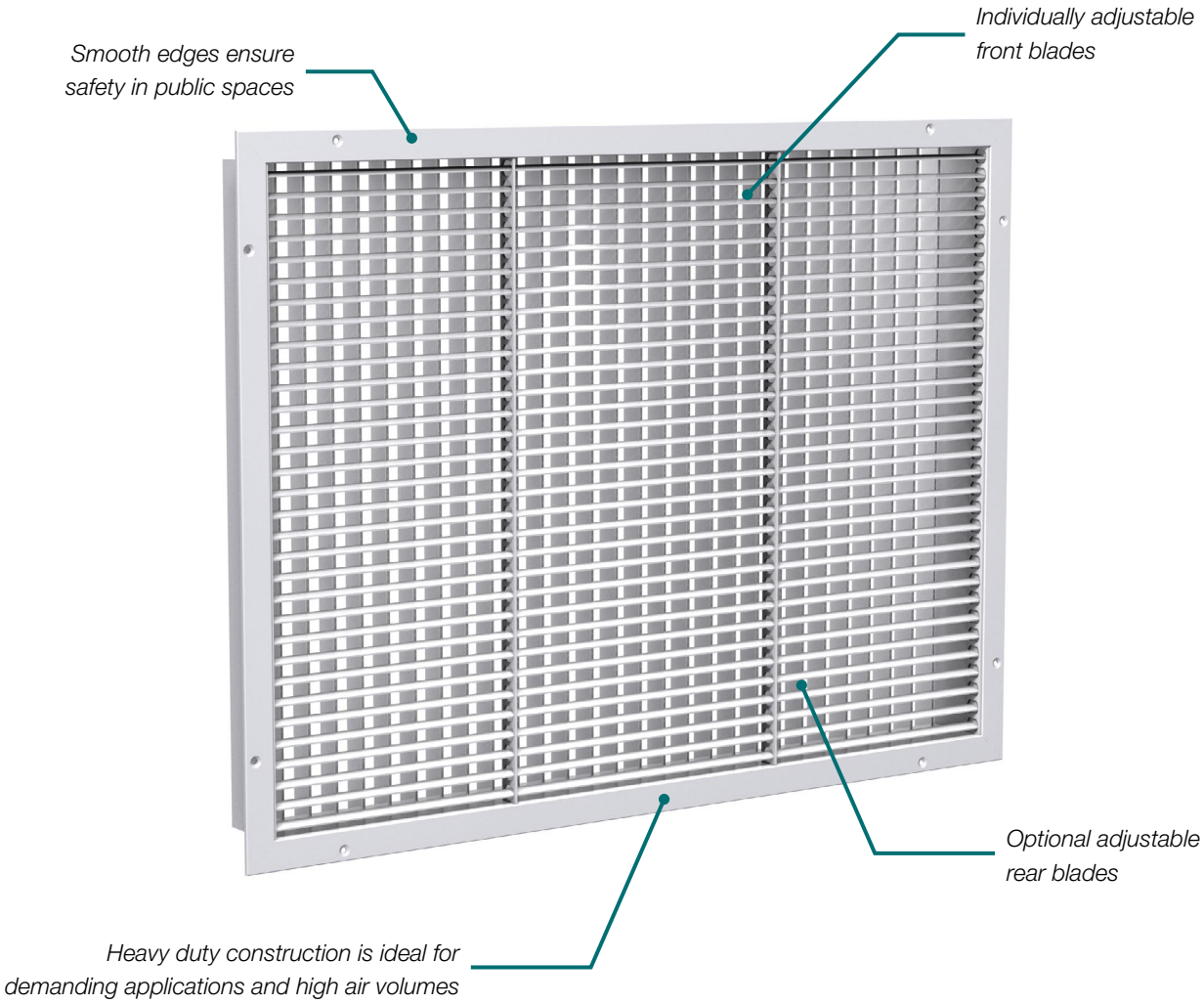
900

ADJUSTABLE STEEL HEAVY DUTY GYM GRILLE

price | GRILLES

900
Adjustable Steel Heavy Duty Gym Grille

The 900 Series Adjustable Steel Heavy Duty Gym Grille is available as a single or double deflection grille and features individually adjustable front blades, designed for demanding applications where durability is a major concern.

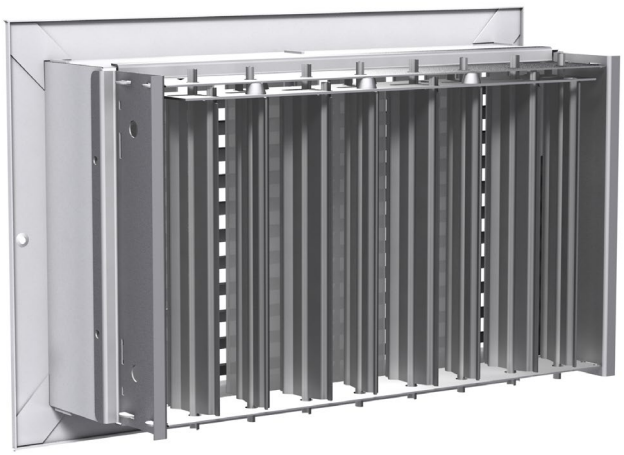


HEAVY DUTY CONSTRUCTION

+ Heavy gauge steel construction withstands frequent adjustment, high air volumes, turbulent supply air and contaminants in the air stream.

DESIGNED FOR PUBLIC SPACES

+ Smooth blades and countersunk screw holes are used to ensure a safe product for use in public spaces.



Optional damper (reverse)

TYPICAL APPLICATIONS

The 900 Series Adjustable Steel Heavy Duty Gym Grille is specifically designed for applications such as gymnasiums, public restrooms and heavy traffic corridors where durability is essential.

CONSTRUCTION

+ Material
  - Heavy gauge steel
+ Model
  - Single deflection (910)
  - Double deflection (920)
+ Blade Spacing
  - ½ in. (910/920)
  - ¾ in. (rear blades, 920 only)
+ Available Sizes
  - Minimum: 6 in. x 4 in.
  - Maximum (one-piece): 48 in. x 48 in.
  - Oversized construction available
+ Options
  - Mounting frame
  - Steel opposed blade damper (VCS3)
  - 0° or 45° blade lock

PERFORMANCE DATA

900 Supply Grille (Models 910, 920)

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°	0.014	0.024	0.038	0.052	0.071	0.094	0.146	0.212	0.287	0.374	0.475
		22.5°	0.017	0.028	0.045	0.063	0.085	0.114	0.176	0.256	0.347	0.452	0.574
		45°	0.025	0.042	0.067	0.093	0.126	0.168	0.261	0.379	0.514	0.669	0.850
Ac = 0.15 ft2	Flow Rate (cfm)		45	60	75	90	105	120	150	180	210	240	270
	Sound (NC)		-	-	-	-	15	19	26	31	36	40	44
7 x 4 6 x 5	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	Flow Rate (cfm)		55	70	90	110	125	145	180	215	250	290	325
	Sound (NC)		-	-	-	-	16	20	27	32	37	41	45
8 x 4 7 x 5 6 x 6	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	Flow Rate (cfm)		65	90	110	130	155	175	220	265	310	350	395
	Sound (NC)		-	-	-	-	17	21	27	33	38	42	45
10 x 4 8 x 5 7 x 6	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°	3-6-11	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	6-8-11	6-9-12	8-10-13	9-11-15	9-12-16	10-12-17	11-13-18
Ac = 0.26 ft2	Flow Rate (cfm)		80	105	130	155	180	210	260	310	365	415	470
	Sound (NC)		-	-	-	-	17	21	28	34	38	42	46
12 x 4 10 x 5 8 x 6	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	4-5-09	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	Flow Rate (cfm)		90	120	150	180	210	240	300	360	420	480	540
	Sound (NC)		-	-	-	-	18	22	29	34	39	43	47
14 x 4	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°	4-7-14	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	Flow Rate (cfm)		100	135	170	205	240	270	340	410	475	545	610
	Sound (NC)		-	-	-	-	19	23	29	35	40	44	47
16 x 4 12 x 5 10 x 6	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°	4-7-14	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	Flow Rate (cfm)		115	155	195	235	275	310	390	470	545	625	700
	Sound (NC)		-	-	-	-	19	23	30	35	40	44	48
18 x 4 14 x 5 12 x 6 8 x 8	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		

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC values are based on room absorption of 10 dB re 10^{-12} Watts @ 0° deflection and and one diffuser.
7. Blanks "-" indicate an NC level below 15.
8. **Deflection** 0°–22.5°–45°
   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 22.5° horizontal setting.
   The performance tables are based on registers with core style 520 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.

Corrections for 900 Series Core Styles

Core Style	Opposed Blade Damper	Deflection	Multiply: Total Pressure	Add: NC
920	Yes	0°	1	0
		22.5°	1	2
		45°	1	6
910	Yes	0°	1	0
		22.5°	1	2
		45°	1	9
920	No	0°	0.80	-4
		22.5°	0.80	-2
		45°	0.80	1
910	No	0°	0.80	-4
		22.5°	0.80	-2
		45°	0.80	1

PERFORMANCE DATA

900 Supply Grille (Models 910, 920)

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°	0.014	0.024	0.038	0.052	0.071	0.094	0.146	0.212	0.287	0.374	0.475
		22.5°	0.017	0.028	0.045	0.063	0.085	0.114	0.176	0.256	0.347	0.452	0.574
		45°	0.025	0.042	0.067	0.093	0.126	0.168	0.261	0.379	0.514	0.669	0.85
Ac = 0.46 ft²	Flow Rate (cfm)		140	185	230	275	320	370	460	550	645	735	830
20 x 4	Sound (NC)		-	-	-	15	20	24	31	36	41	45	49
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	6-9-14	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)		-	-	-	16	20	24	31	37	41	45	49
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	22-28-39	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)		-	-	-	16	21	25	32	37	42	46	50
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	33-40-56	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	23-28-38	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)		-	-	-	17	22	26	32	38	43	47	50
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)		-	-	-	18	22	26	33	39	43	47	51
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	38-46-64	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 18 x 8	Sound (NC)		-	-	-	18	23	27	34	39	44	48	51
30 x 5 16 x 10	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 12 x 12		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
		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
Ac = 1.07 ft²	Flow Rate (cfm)		320	430	535	640	750	855	1070	1280	1500	1710	1930
48 x 4 22 x 8	Sound (NC)		-	-	-	19	24	28	34	40	45	49	52
36 x 5 18 x 10	Throw (ft)	0°	10-16-32	15-22-38	18-28-42	22-33-46	26-36-49	29-38-53	35-43-59	38-48-64	41-50-69	43-53-74	46-57-79
30 x 6 14 x 12		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
		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
							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. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC values are based on room absorption of 10 dB re 10^{-12} Watts @ 0° deflection and and one diffuser.
7. Blanks "-" indicate an NC level below 15.
8. **Deflection** 0°–22.5°–45°
   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 22.5° horizontal setting.
   The performance tables are based on registers with core style 520 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.

Corrections for 900 Series Core Styles

Core Style	Opposed Blade Damper	Deflection	Multiply Total Pressure	Add NC
920	Yes	0°	1	0
		22.5°	1	2
		45°	1	6
910	Yes	0°	1	0
		22.5°	1	2
		45°	1	9
920	No	0°	0.80	-4
		22.5°	0.80	-2
		45°	0.80	1
910	No	0°	0.80	-4
		22.5°	0.80	-2
		45°	0.80	1

PERFORMANCE DATA

900 Supply Grille (Models 910, 920)

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	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	0.159	0.202
	Total Pressure (in. w.g.)	0°	0.014	0.024	0.036	0.052	0.071	0.094	0.146	0.212	0.287	0.374	0.475
		22.5°	0.017	0.028	0.045	0.063	0.085	0.114	0.176	0.256	0.347	0.452	0.574
		45°	0.025	0.042	0.067	0.093	0.126	0.168	0.261	0.379	0.514	0.669	0.85
Ac = 1.18 ft²	**Flow Rate (cfm)**		**353**	**470**	**590**	**710**	**825**	**945**	**1180**	**1420**	**1650**	**1890**	**2120**
40 x 5 20 x 10	**Sound (NC)**		**-**	**-**	**-**	**19**	**24**	**28**	**35**	**40**	**45**	**49**	**53**
34 x 6 16 x 12	**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
24 x 8 14 x 14		22.5°	8-14-27	12-18-32	15-22-35	18-28-38	22-30-42	25-32-45	29-35-50	32-38-54	34-42-58	36-45-62	38-47-66
		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	23-28-39	24-30-41
Ac = 1.34 ft²	**Flow Rate (cfm)**		**400**	**535**	**670**	**805**	**940**	**1070**	**1340**	**1610**	**1880**	**2140**	**2410**
46 x 5 22 x 10	**Sound (NC)**		**-**	**-**	**-**	**20**	**24**	**28**	**35**	**41**	**45**	**50**	**53**
38 x 6 18 x 12	**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
28 x 8 16 x 14		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
		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
Ac = 1.60 ft²	**Flow Rate (cfm)**		**480**	**540**	**800**	**960**	**1120**	**1280**	**1600**	**1920**	**2240**	**2560**	**2880**
44 x 6 22 x 12	**Sound (NC)**		**-**	**-**	**15**	**21**	**25**	**29**	**36**	**42**	**46**	**50**	**54**
43 x 8 18 x 14	**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
26 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
		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
Ac = 1.80 ft²	**Flow Rate (cfm)**		**540**	**720**	**900**	**1080**	**1260**	**1440**	**1800**	**2160**	**2520**	**2880**	**3240**
50 x 5 24 x 12	**Sound (NC)**		**-**	**-**	**16**	**21**	**26**	**30**	**37**	**42**	**47**	**51**	**54**
36 x 8 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	56-69-87	60-73-103
28 x 10 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
		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
Ac = 2.08 ft²	**Flow Rate (cfm)**		**625**	**830**	**1040**	**1250**	**1460**	**1660**	**2080**	**2500**	**2910**	**3330**	**3740**
58 x 6 24 x 14	**Sound (NC)**		**-**	**-**	**16**	**22**	**26**	**30**	**37**	**43**	**47**	**51**	**55**
42 x 8 20 x 16	**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
32 x 10 18 x 18		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
28 x 12		45°	7-11-23	10-15-26	13-19-29	15-22-32	17-25-34	20-26-37	24-29-41	26-32-45	28-35-48	30-37-52	32-40-55
Ac = 2.45 ft²	**Flow Rate (cfm)**		**735**	**980**	**1220**	**1470**	**1720**	**1960**	**2450**	**2940**	**3430**	**3920**	**4410**
48 x 8 26 x 14	**Sound (NC)**		**-**	**-**	**17**	**22**	**27**	**31**	**38**	**43**	**48**	**52**	**56**
38 x 10 24 x 16	**Throw (ft)**	0°	15-25-49	22-33-57	27-40-62	32-48-68	38-54-74	43-57-80	52-64-89	57-70-97	61-76-106	65-81-113	70-87-120
32 x 12 20 x 18		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
		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	33-42-56	35-43-60
Ac = 2.78 ft²	**Flow Rate (cfm)**		**835**	**1110**	**1390**	**1670**	**1950**	**2220**	**2780**	**3340**	**3890**	**4450**	**5000**
56 x 8 26 x 16	**Sound (NC)**		**-**	**-**	**17**	**23**	**28**	**32**	**38**	**44**	**49**	**53**	**56**
40 x 10 24 x 18	**Throw (ft)**	0°	16-26-52	23-34-60	29-42-67	35-50-73	40-57-79	45-61-85	55-68-95	60-75-104	65-81-112	70-87-122	74-93-128
36 x 12 22 x 20		22.5°	13-21-42	18-27-48	23-34-54	28-40-58	32-48-63	36-49-68	44-54-76	48-60-83	52-65-90	56-70-98	59-74-102
30 x 14		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
						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. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC values are based on room absorption of 10 dB re 10^{-12} Watts @ 0° deflectionand and one diffuser.
7. Blanks "-" indicate an NC level below 15.
8. **Deflection** 0°–22.5°–45° 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 22.5° horizontal setting.
   The performance tables are based on registers with core style 520 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.

Corrections for 900 Series Core Styles

			Multiply	Add
Core Style	**Opposed Blade Damper**	**Deflection**	**Total Pressure**	**NC**
920	Yes	0°	1	0
		22.5°	1	2
		45°	1	6
910	Yes	0°	1	0
		22.5°	1	2
		45°	1	9
920	No	0°	0.80	-4
		22.5°	0.80	-2
		45°	0.80	1
910	No	0°	0.80	-4
		22.5°	0.80	-2
		45°	0.80	1

PERFORMANCE DATA

900 Supply Grille (Models 910, 920)

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°	0.014	0.024	0.036	0.052	0.071	0.094	0.146	0.212	0.287	0.374	0.475
		22.5°	0.017	0.028	0.045	0.063	0.085	0.114	0.176	0.256	0.347	0.452	0.574
		45°	0.025	0.042	0.067	0.093	0.126	0.168	0.261	0.379	0.514	0.669	0.85
Ac = 3.11 ft²	Flow Rate (cfm)		935	1240	1560	1870	2180	2490	3110	3730	4350	4980	5600
62 x 8 30 x 16	Sound (NC)		-	-	18	23	28	32	39	44	49	53	57
48 x 10 26 x 18	Throw (ft)	0°	17-27-55	24-35-63	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
40 x 12 24 x 20		22.5°	14-22-44	19-29-50	27-35-57	33-42-62	38-48-67	38-51-72	46-58-80	51-63-88	55-69-94	59-74-102	63-78-108
34 x 14		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 30 x 18	Sound (NC)		-	-	19	24	29	33	40	45	50	54	57
58 x 10 28 x 20	Throw (ft)	0°	18-29-59	26-38-68	32-47-76	38-56-84	44-65-90	51-69-97	63-78-108	69-88-118	75-93-128	80-99-137	86-105-146
48 x 12 24 x 24		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	64-79-110	69-84-117
36 x 16		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	cfm		1290	1720	2140	2570	3000	3430	4290	5150	6010	6860	7720
68 x 10 36 x 18	NC		-	-	19	24	29	33	40	45	50	54	58
56 x 12 32 x 20	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
48 x 14 28 x 24		22.5°	15-25-51	22-33-59	28-40-66	34-48-73	39-57-78	45-81-85	55-68-94	61-74-104	66-82-112	70-86-119	74-92-126
42 x 16		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	1880	2320	2790	3260	3720	4650	5580	6510	7440	8370
72 x 10 40 x 18	Sound (NC)		-	-	20	25	30	34	41	46	51	55	59
60 x 12 36 x 20	Throw (ft)	0°	20-33-67	29-43-78	36-54-87	44-65-95	51-74-103	58-79-110	77-89-123	79-97-135	86-105-146	91-113-156	96-120-164
52 x 14 30 x 24		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
44 x 16		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 48 x 18	Sound (NC)		-	-	20	26	31	35	41	47	52	56	59
60 x 14 42 x 20	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
54 x 16 36 x 24		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 48 x 20	Sound (NC)		-	-	21	27	31	35	42	48	52	56	60
60 x 16 40 x 24	Throw (ft)	0°	23-37-78	33-49-90	42-62-100	50-75-103	58-86-119	67-93-128	84-104-143	92-113-156	96-123-169	106-132-180	112-140-192
54 x 18 32 x 30		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		NC 60	

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The performance tables are based on registers with core style 520 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.

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			Multiply	Add
Core Style	Opposed Blade Damper	Deflection	Total Pressure	NC
920	Yes	0°	1	0
		22.5°	1	2
		45°	1	6
910	Yes	0°	1	0
		22.5°	1	2
		45°	1	9
920	No	0°	0.80	-4
		22.5°	0.80	-2
		45°	0.80	1
910	No	0°	0.80	-4
		22.5°	0.80	-2
		45°	0.80	1

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