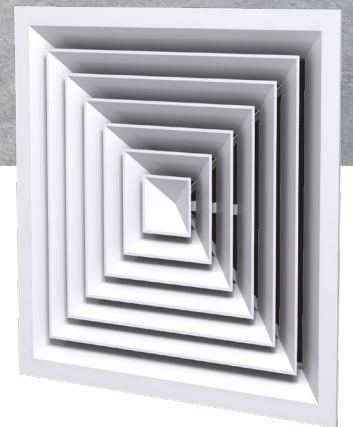


SMD/AMD

MODULAR LOUVERED FACE DIFFUSER



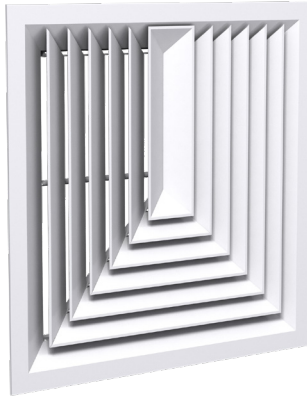
SMD/AMD

Modular Louvered Face Diffuser

High capacity, modular louvered face directional diffusers blend harmoniously with architectural details and are available with a wide array of frame styles for easy integration with modular ceiling systems. The SMD/AMD features large square and rectangular inlets for reduced inlet velocity, resulting in low sound and pressure drop even at high airflows. The modular louvered face diffuser is highly configurable with multiple core styles, airflow patterns, and optional features to tailor this product to specific applications.



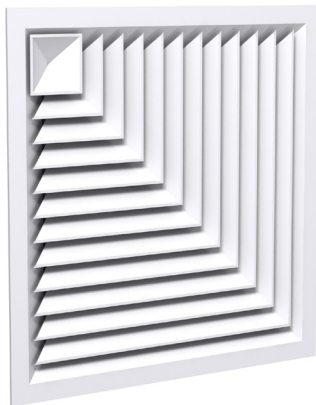
4-way discharge



3-way discharge



2-way discharge



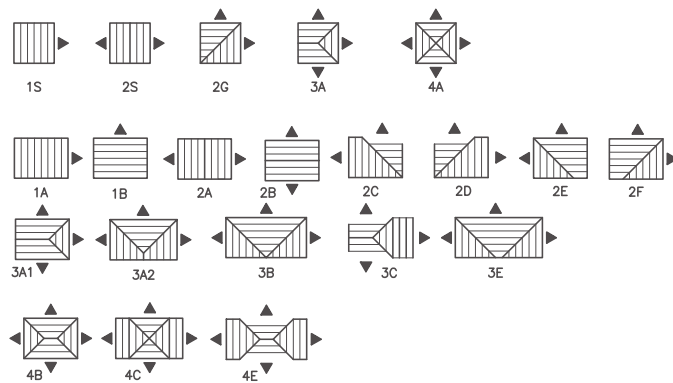
2-way corner discharge



1-way discharge

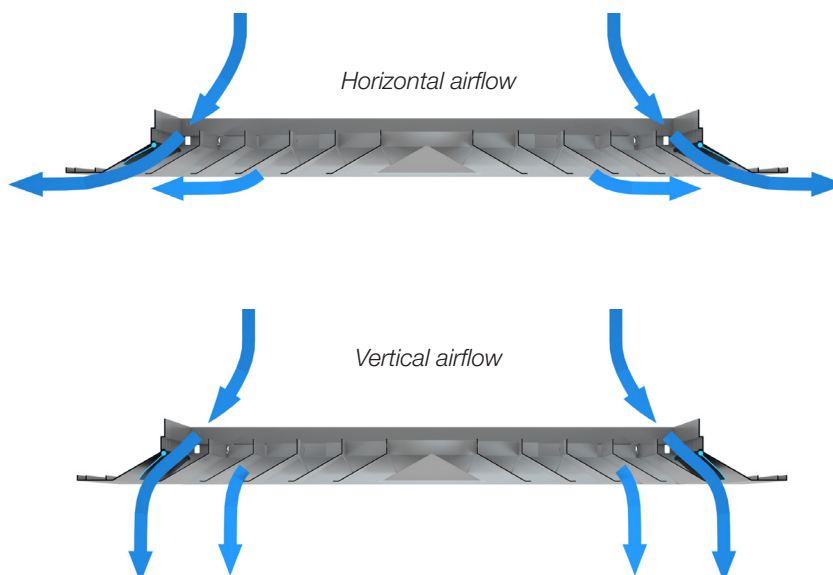
VARIETY OF CORE STYLES

- + Available in a wide variety of core styles, the modular design of this diffuser allows for the customization of each unit to accommodate specific airflow requirements.
- + The various core styles allow for 1-way, 2-way, 2-way corner, 3-way, or 4-way airflow.
- + The directional core is easily removable at the diffuser face without the need for special tools.



ADJUSTABLE PATTERN DEFLECTORS

Optional pattern deflectors provide horizontal or vertical air pattern. The pattern deflectors allow for field adjustment of the diffuser to optimize thermal comfort.



TYPICAL APPLICATIONS

The SMD/AMD is well suited to applications that require large volumes of airflow at low sound and pressure drop. Concentrated airflow is discharged from each active side of the diffuser, resulting in longer throws that are ideal for high ceiling applications.

CONSTRUCTION

- + Material
 - Steel (SMD)
 - Aluminum (AMD)
 - Extruded Aluminum (AMDE)
- + Options
 - Adjustable pattern deflectors (SMDA/AMDA)
 - High induction construction (SMX/AMX/AMEX)
 - Plaque face construction (SMDP)
 - Security construction (MSD)
 - Light commercial construction (LCMD)
 - Fire rated construction (SMD-FR/SMDA-FR/SMX-FR)

HIGH INDUCTION CONSTRUCTION

The high induction louvered directional diffusers are designed for high cooling load applications. Internally mounted discharge vanes are engineered to create a high rate of induction that will rapidly mix warm room air with cool supply air. This rapid mixing quickly equalizes the temperature differential between the two air masses, minimizing the chance of uncomfortable drafts.



PLAQUE FACE CONSTRUCTION

The plaque face construction combines a simple and unobtrusive plaque design with louvered slots that deliver large volumes of air with relatively low sound and pressure drop.

The louvered plaque ceiling diffuser is compatible with 24 in. x 24 in. ceiling grids and is available with 1, 2, or 3 slots in order to meet a wide range of performance requirements.



SECURITY CONSTRUCTION

For minimum-security areas, such as mental health facilities, offices, and public areas, the SMD diffuser can be combined with a lattice faceplate to prevent access to ductwork and protects pattern controllers from damage and removal. The minimum security SMD can be mounted using either security screws or an optional rear mounting plate with tamperproof bolts.



LIGHT COMMERCIAL CONSTRUCTION

The light commercial modular diffuser is an economical option that features extruded aluminum construction, 1 in. louver spacing and an easy to remove, spring-loaded core for concealed mounting.



FIRE RATED CONSTRUCTION

Optional Fire Rated Assembly listing in the UL Fire Resistance Directory. Fire rated models meet UL time vs. temperature test criteria and NFPA 90A requirements.

Fire rated construction incorporates a thermal blanket and fire damper for use in fire rated T-bar ceiling applications. The butterfly-type fire damper is available with either a 165°F or 212°F fusible link.



PERFORMANCE DATA

SMD/AMD

Neck Velocity (fpm) Velocity Pressure (in. w.g.) Total Pressure (in. w.g.)		300 0.006 0.036	400 0.01 0.065	500 0.016 0.099	600 0.022 0.144	700 0.031 0.196	800 0.04 0.256	900 0.05 0.324
Duct Size	Flow Rate (cfm) Sound (NC)	75 -	100 -	125 17	150 23	175 27	200 31	225 36
6 in. x 6 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 0.25 ft ²	4A cfm/Side Throw (ft)	19 4-6-12	25 5-8-15	31 7-10-16	38 8-12-18	44 9-14-19	50 11-15-21	56 12-16-22
	3A cfm/Side Throw (ft)	19 28 4-6-12 5-7-14	25 38 5-8-15 6-10-16	31 47 7-10-16 8-12-18	38 56 8-12-18 10-14-20	44 66 9-14-19 11-15-22	50 75 11-15-21 13-16-23	56 84 12-16-22 14-17-25
	2S, 2G cfm/Side Throw (ft)	38 6-8-15	50 7-11-18	63 9-14-20	75 11-15-22	88 13-17-24	100 15-18-25	113 15-19-27
	1S cfm/Side Throw (ft)	75 8-12-19	100 11-15-22	125 13-17-24	150 15-19-27	175 17-20-29	200 18-22-31	225 19-23-33
	Flow Rate (cfm) Sound (NC)	169 -	225 -	282 21	338 27	394 31	450 35	507 39
9 in. x 9 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 0.56 ft ²	4A cfm/Side Throw (ft)	42 6-9-16	56 8-12-18	71 10-15-21	85 12-16-23	99 14-17-24	113 15-18-26	127 16-20-28
	3A cfm/Side Throw (ft)	42 63 6-9-16 7-11-18	56 84 8-12-18 10-15-21	71 106 10-15-21 12-16-23	85 127 12-16-23 15-18-25	99 148 14-17-24 16-19-27	113 169 15-18-26 17-21-29	127 190 16-20-28 18-22-31
	2S, 2G cfm/Side Throw (ft)	85 8-13-19	113 11-16-22	141 14-18-25	169 16-19-28	197 17-21-30	225 18-22-32	254 19-24-34
	1S cfm/Side Throw (ft)	169 12-17-24	225 16-19-27	282 18-22-31	338 19-24-34	394 21-26-36	450 22-27-39	507 21-29-41
	Flow Rate (cfm) Sound (NC)	300 -	400 17	500 24	600 30	700 34	800 38	900 42
12 in. x 12 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 1.00 ft ²	4A cfm/Side Throw (ft)	75 8-12-19	100 11-15-22	125 13-17-24	150 15-19-27	175 17-20-29	200 18-22-31	225 19-23-33
	3A cfm/Side Throw (ft)	75 113 8-12-19 10-15-21	100 150 11-15-22 13-17-24	125 188 13-17-24 16-19-27	150 225 15-19-27 17-21-30	175 263 17-20-29 19-23-32	200 300 18-22-31 20-24-35	225 338 19-23-33 21-26-37
	2S, 2G cfm/Side Throw (ft)	150 11-16-23	200 15-19-26	250 17-21-30	300 19-23-32	350 20-25-35	400 22-26-37	450 23-28-40
	1S cfm/Side Throw (ft)	300 16-20-28	400 19-23-32	500 21-26-36	600 23-28-40	700 25-30-43	800 26-32-46	900 28-34-48
	Flow Rate (cfm) Sound (NC)	468 -	625 19	781 26	938 32	1094 35	1250 40	1406 44
15 in. x 15 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 1.56 ft ²	4A cfm/Side Throw (ft)	117 10-15-21	156 13-17-25	195 16-20-28	234 17-21-30	273 19-23-33	313 20-25-35	352 21-26-37
	3A cfm/Side Throw (ft)	117 176 10-15-21 12-17-24	156 234 13-17-25 16-20-28	195 293 16-20-28 18-22-31	234 352 17-21-30 20-24-34	273 410 19-23-33 21-26-37	313 469 20-25-35 23-28-39	352 527 21-26-37 24-29-42
	2S, 2G cfm/Side Throw (ft)	234 14-18-26	313 17-21-30	391 19-24-34	469 21-26-37	547 23-28-40	625 25-30-43	703 26-32-45
	1S cfm/Side Throw (ft)	468 18-22-32	625 21-26-37	781 24-29-41	938 26-32-45	1094 28-34-48	1250 30-37-52	1406 32-39-55
	Flow Rate (cfm) Sound (NC)	675 -	900 21	1125 28	1350 34	1575 38	1800 42	2025 46
18 in. x 18 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 2.25 ft ²	4A cfm/Side Throw (ft)	169 12-17-24	225 16-19-27	281 18-22-31	338 19-24-34	394 21-26-36	450 22-27-39	506 24-29-41
	3A cfm/Side Throw (ft)	169 253 12-17-24 15-19-27	225 338 16-19-27 18-22-31	281 422 18-22-31 20-24-34	338 506 19-24-34 22-27-38	394 591 21-26-36 23-29-41	450 675 22-27-39 25-31-43	506 759 24-29-41 27-33-46
	2S, 2G cfm/Side Throw (ft)	338 17-20-29	450 19-24-33	563 22-26-37	675 24-29-41	788 25-31-44	900 27-33-47	1013 29-35-50
	1S cfm/Side Throw (ft)	675 20-25-35	900 23-29-41	1125 26-32-45	1350 29-35-50	1575 31-38-54	1800 33-41-58	2025 35-43-61
	Flow Rate (cfm) Sound (NC)	919 -	1225 23	1531 30	1838 36	2144 40	2450 44	2756 48
21 in. x 21 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 3.06 ft ²	4A cfm/Side Throw (ft)	230 14-18-26	306 17-21-30	383 19-24-33	459 21-26-37	536 23-28-40	613 24-30-42	689 26-32-45
	3A cfm/Side Throw (ft)	230 345 14-18-26 17-21-29	306 459 17-21-30 19-24-34	383 574 19-24-33 22-27-38	459 689 21-26-37 24-29-41	536 804 23-28-40 26-31-44	613 919 24-30-42 27-34-47	689 1034 26-32-45 29-36-50
	2S, 2G cfm/Side Throw (ft)	459 18-22-32	613 21-26-36	766 24-29-41	919 26-32-45	1072 28-34-48	1225 30-36-52	1378 32-39-55
	1S cfm/Side Throw (ft)	918 22-27-38	1225 26-31-44	1531 29-35-50	1837 31-38-54	2143 34-42-59	2450 36-44-63	2756 38-47-67
	Flow Rate (cfm) Sound (NC)	919 -	1225 23	1531 30	1838 36	2144 40	2450 44	2756 48

For Performance Notes and Return Factors, see end of section.

Core Style Legend



PERFORMANCE DATA

SMD/AMD

Neck Velocity (fpm) Velocity Pressure (in. w.g.) Total Pressure (in. w.g.)			300 0.006 0.036	400 0.01 0.065	500 0.016 0.099	600 0.022 0.144	700 0.031 0.196	800 0.04 0.256	900 0.05 0.324
Duct Size 24 in. x 24 in.			Flow Rate (cfm) Sound (NC) 15	1600 24	2000 31	2400 37	2800 41	3200 45	3600 49
			A B	A B	A B	A B	A B	A B	A B
Duct Area 4.00 ft ²	4A	cfm/Side Throw (ft)	300 16-20-28	400 19-23-32	500 21-26-36	600 23-28-40	700 25-30-43	800 26-32-46	900 28-34-48
	3A	cfm/Side Throw (ft)	300 450 16-20-28 18-22-31	400 600 19-23-32 21-26-36	500 750 21-26-36 23-29-41	600 900 23-28-40 26-31-44	700 1050 25-30-43 28-34-48	800 1200 26-32-46 30-36-51	900 1350 28-34-48 31-38-54
	2S, 2G	cfm/Side Throw (ft)	600 20-24-34	800 23-28-39	1000 25-31-44	1200 28-34-48	1400 30-37-52	1600 32-39-56	1800 34-42-59
	1S	cfm/Side Throw (ft)	1200 24-29-41	1600 28-34-48	2000 31-38-54	2400 34-41-59	2800 37-45-63	3200 39-48-68	3600 41-51-72
		Flow Rate (cfm) Sound (NC)	112 -	150 -	187 20	225 26	263 30	300 34	337 38
Duct Size 9 in. x 6 in.			A B	A B	A B	A B	A B	A B	A B
Duct Area 0.38 ft ²	4B	cfm/Side Throw (ft)	37 18 6-8-15 4-6-12	50 25 7-11-18 5-8-15	62 31 9-14-20 7-10-16	75 37 11-15-22 8-12-18	87 44 13-17-24 9-14-20	100 50 15-18-25 11-15-21	112 56 15-19-27 12-16-22
	3A2	cfm/Side Throw (ft)	35 42 5-8-15 6-9-16	47 55 7-11-18 8-12-18	58 70 9-13-20 10-15-21	70 84 11-15-21 12-16-22	82 98 13-16-23 14-17-24	94 112 14-18-25 15-18-26	105 126 15-19-26 16-19-28
	2A, 2B	cfm/Side Throw (ft)	56 7-10-17	75 9-14-20	93 11-16-22	112 14-17-24	131 15-19-26	150 16-20-28	168 17-21-30
	2E, 2F	cfm/Side Throw (ft)	75 37 8-12-19 6-8-15	100 50 11-15-22 7-11-18	125 62 13-17-24 9-14-20	150 75 15-19-27 11-15-22	175 87 17-20-29 13-17-24	200 100 18-22-31 15-18-25	225 112 19-23-33 15-19-27
	1A, 1B	cfm/Side Throw (ft)	112 10-14-21	150 13-17-24	187 16-19-27	225 17-21-30	263 19-23-32	300 20-24-35	337 21-26-37
		Flow Rate (cfm) Sound (NC)	150 -	200 -	250 21	300 27	350 31	400 35	450 39
Duct Size 12 in. x 6 in.			A B	A B	A B	A B	A B	A B	A B
Duct Area 0.5 ft ²	4B	cfm/Side Throw (ft)	56 18 7-10-17 4-6-12	75 25 9-14-20 5-8-15	94 31 12-16-22 7-10-16	113 37 14-17-25 8-12-18	131 44 15-19-27 9-14-20	150 50 16-20-28 11-15-21	169 56 17-21-30 12-16-22
	3A1	cfm/Side Throw (ft)	66 18 7-11-18 4-6-12	87 25 10-15-21 5-8-15	109 31 12-16-23 7-10-16	131 37 15-18-26 8-12-18	153 44 16-20-28 9-14-20	175 50 17-21-30 11-15-21	197 56 18-22-31 12-16-22
	3B	cfm/Side Throw (ft)	75 37 8-12-19 6-8-15	100 50 11-15-22 7-11-18	126 62 13-17-24 9-14-20	150 75 15-19-27 11-15-22	176 87 17-20-29 10-15-21	200 100 18-22-31 15-18-25	226 112 19-23-33 15-19-27
	2A, 2B	cfm/Side Throw (ft)	75 8-12-19	100 11-15-22	125 13-17-24	150 15-19-27	175 17-20-29	200 18-22-31	225 19-23-33
	2E, 2F	cfm/Side Throw (ft)	112 37 10-14-21 6-8-15	160 50 14-18-25 7-11-18	188 62 16-19-27 9-14-20	225 75 17-21-30 11-15-22	263 87 19-23-32 13-17-24	300 100 20-24-35 15-18-25	338 112 21-26-37 15-19-27
	1A, 1B	cfm/Side Throw (ft)	150 11-16-23	200 15-19-26	250 17-21-30	300 19-23-32	350 20-25-35	400 22-26-37	450 23-28-40
		Flow Rate (cfm) Sound (NC)	188 -	250 15	312 22	375 28	438 32	500 36	563 40
Duct Size 15 in. x 6 in.			A B	A B	A B	A B	A B	A B	A B
Duct Area 0.63 ft ²	4B	cfm/Side Throw (ft)	75 18 8-12-19 4-6-11	100 25 11-15-22 5-8-15	125 31 13-17-24 7-10-16	150 37 15-19-27 8-12-18	175 44 17-20-29 9-14-19	200 50 18-22-31 11-15-21	225 56 19-23-33 12-16-22
	3A1	cfm/Side Throw (ft)	84 18 8-13-19 4-6-11	112 25 11-16-22 5-8-15	140 31 14-18-25 7-10-16	169 37 16-19-28 8-12-18	197 44 17-21-30 9-14-19	225 50 18-22-32 11-15-21	253 56 19-24-34 12-15-22
	2A, 2B	cfm/Side Throw (ft)	94 9-13-20	125 12-16-23	156 15-18-26	187 16-20-28	219 18-22-31	250 19-23-33	281 20-25-35
	2E, 2F	cfm/Side Throw (ft)	150 37 11-16-23 6-8-15	200 50 15-19-26 7-11-18	250 62 17-21-30 9-14-20	300 75 19-23-32 11-15-22	350 87 20-25-35 13-17-24	400 100 22-26-37 15-18-25	450 112 23-28-40 15-19-27
	1A, 1B	cfm/Side Throw (ft)	188 13-17-24	250 16-20-28	312 18-22-32	375 20-24-35	438 22-26-37	500 23-28-40	563 24-30-42
		Flow Rate (cfm) Sound (NC)	225 -	300 16	375 23	450 29	525 33	600 37	675 41
Duct Size 18 in. x 6 in.			A B	A B	A B	A B	A B	A B	A B
Duct Area 0.75 ft ²	4B	cfm/Side Throw (ft)	94 18 9-13-20 4-6-12	125 25 12-16-23 5-8-15	156 31 15-18-26 7-10-16	188 37 16-20-28 8-12-18	218 44 18-22-31 9-14-20	250 50 19-23-33 20-25-35	281 56 12-16-22
	3A1	cfm/Side Throw (ft)	103 18 9-14-21 4-6-12	137 25 12-17-24 5-8-15	172 31 15-19-27 7-10-16	206 37 17-21-29 8-12-18	240 44 18-22-31 9-14-20	275 50 19-24-34 11-15-21	309 56 21-25-36 12-16-22
	2A, 2B	cfm/Side Throw (ft)	112 10-14-21	150 13-17-24	187 16-19-27	225 17-21-30	262 19-23-32	300 20-24-35	337 21-26-37
	2E, 2F	cfm/Side Throw (ft)	187 37 12-17-24 6-8-15	250 50 16-20-28 8-11-18	313 62 18-22-32 9-14-20	375 75 20-24-35 11-16-22	438 87 22-26-37 13-17-24	500 100 23-28-40 15-18-25	563 112 24-30-42 16-19-27
	1A, 1B	cfm/Side Throw (ft)	225 14-18-26	300 17-21-30	375 19-24-33	450 21-26-36	525 23-28-39	600 24-30-42	675 26-32-45

For Performance Notes and Return Factors, see end of section.

Core Style Legend



PERFORMANCE DATA

SMD/AMD

Neck Velocity (fpm) Velocity Pressure (in. w.g.) Total Pressure (in. w.g.)			300 0.006 0.036		400 0.01 0.065		500 0.016 0.099		600 0.022 0.144		700 0.031 0.196		800 0.04 0.256		900 0.05 0.324	
Duct Size 21 in. x 6 in.			262 -		350 16		437 23		525 29		612 33		700 37		787 41	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
Duct Area 0.88 ft ²	4B	cfm/Side Throw (ft)	112	18	150	25	187	31	225	37	262	44	300	50	337	56
			10-14-21	4-6-11	13-17-24	5-8-15	16-19-27	7-10-16	17-21-30	8-12-18	19-23-32	9-14-20	20-24-34	11-15-21	21-26-37	12-16-22
	3A1	cfm/Side Throw (ft)	122	18	162	25	203	31	244	37	284	44	325	50	365	56
			10-15-22	4-6-11	13-18-25	5-8-15	16-20-28	7-10-16	18-22-31	8-12-18	19-23-33	9-14-20	20-25-35	11-15-21	22-26-37	12-16-22
	2A, 2B	cfm/Side Throw (ft)	131		175		218		262		306		350		393	
			10-16-22		14-18-25		16-20-28		18-22-31		19-24-34		21-25-36		22-27-38	
Duct Area 1.00 ft ²	2E, 2F	cfm/Side Throw (ft)	225	37	300	50	375	62	450	75	525	87	600	100	675	112
			14-18-26	6-8-15	17-21-30	8-11-18	19-23-33	9-14-20	21-26-36	11-16-22	23-28-39	13-17-24	24-30-42	15-18-25	26-32-45	15-19-27
	1A, 1B	cfm/Side Throw (ft)	262		350		437		525		612		700		787	
			15-19-27		18-22-31		20-25-35		22-27-38		24-29-41		25-31-44		27-33-47	
			300 -		400 17		500 24		600 30		700 34		800 38		900 42	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
Duct Area 1.00 ft ²	4B	cfm/Side Throw (ft)	131	18	175	25	219	31	263	37	306	44	350	50	394	56
			10-16-22	4-6-12	14-18-25	5-8-15	16-20-28	7-10-16	18-22-31	8-12-18	19-24-34	9-14-20	21-25-36	11-15-21	22-27-38	12-16-22
	3A1	cfm/Side Throw (ft)	141	18	187	25	234	31	281	37	328	44	375	50	422	56
			11-16-23	4-6-12	14-18-26	5-8-15	17-21-29	7-10-16	18-22-32	8-12-18	20-24-34	9-14-20	21-26-37	11-15-21	23-28-39	12-16-22
	2A, 2B	cfm/Side Throw (ft)	150		200		250		300		350		400		450	
			11-16-23		15-19-26		17-21-30		19-23-32		20-25-35		22-26-37		23-28-40	
Duct Area 0.75 ft ²	2E, 2F	cfm/Side Throw (ft)	260	37	350	50	438	62	525	75	613	87	700	100	788	112
			15-19-27	6-8-15	18-22-31	8-11-18	20-25-35	9-14-20	22-27-38	11-16-22	24-29-41	13-17-24	25-31-44	15-18-25	27-33-47	16-19-27
	1A, 1B	cfm/Side Throw (ft)	300		400		500		600		700		800		900	
			16-20-28		19-23-32		21-26-36		23-28-40		25-30-43		26-32-46		28-34-48	
			225 -		300 16		375 23		450 29		525 33		600 37		675 41	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
Duct Area 0.75 ft ²	4B	cfm/Side Throw (ft)	70	42	94	56	117	70	141	84	164	98	188	112	211	126
			8-11-18	6-9-16	10-15-21	8-12-18	13-17-24	10-15-21	15-19-26	12-16-22	16-20-28	14-17-24	17-21-30	15-18-26	19-23-32	16-19-28
	3A1	cfm/Side Throw (ft)	91	42	121	56	152	70	183	84	213	98	244	112	274	126
			9-13-20	6-9-16	12-16-23	8-12-18	15-18-26	10-15-21	16-20-28	12-16-22	18-22-31	14-17-24	19-23-33	15-18-26	20-24-35	16-19-28
	3A2	cfm/Side Throw (ft)	75	75	100	100	125	125	150	150	175	175	200	200	225	225
			8-12-19	8-12-19	11-15-22	11-15-22	13-17-24	13-17-24	15-19-27	15-19-27	17-20-29	17-20-29	18-22-31	18-22-31	19-23-33	19-23-33
Duct Area 0.94 ft ²	2A, 2B	cfm/Side Throw (ft)	112		150		187		225		262		300		337	
			10-14-21		13-17-24		16-19-27		17-21-30		19-23-32		20-24-35		21-26-37	
	2E, 2F	cfm/Side Throw (ft)	141	84	188	112	234	141	281	169	328	197	375	225	422	253
			11-16-23	8-13-19	14-18-26	11-16-22	17-21-29	14-18-25	18-22-32	16-20-28	20-24-34	17-21-30	21-26-37	18-23-32	22-28-39	20-24-34
	1A, 1B	cfm/Side Throw (ft)	225		300		375		450		525		600		675	
			14-18-26		17-21-30		19-24-33		21-26-36		23-28-39		24-30-42		26-32-45	
Duct Size 15 in. x 9 in.			281 -		375 17		470 24		563 30		656 34		750 38		845 42	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
Duct Area 0.94 ft ²	4B	cfm/Side Throw (ft)	98	42	131	56	165	70	198	84	230	98	263	112	296	126
			9-14-20	6-9-16	12-17-23	8-12-18	15-19-26	10-15-21	17-20-29	12-16-23	18-22-31	14-17-24	19-24-33	15-18-26	20-25-35	16-20-28
	3A1	cfm/Side Throw (ft)	120	42	159	56	200	70	240	84	279	98	319	112	359	126
			10-15-21	6-9-16	13-17-25	8-12-18	16-20-28	10-15-21	18-21-30	12-16-23	19-23-33	14-17-24	20-25-35	15-18-26	21-26-37	16-20-28
	3A2	cfm/Side Throw (ft)	82	117	110	155	137	196	165	233	192	272	219	312	247	351
			8-12-19	10-15-21	11-16-22	13-17-25	14-18-25	16-20-28	16-19-27	17-21-30	17-21-30	19-23-33	18-22-32	20-25-35	19-24-34	21-26-37
Duct Area 1.13 ft ²	2A, 2B	cfm/Side Throw (ft)	140		187		235		281		328		375		422	
			11-16-22		14-18-26		17-21-29		18-23-32		20-24-34		21-26-37		23-28-39	
	2E, 2F	cfm/Side Throw (ft)	197	84	263	112	329	141	394	169	459	197	525	225	592	253
			13-18-25	8-13-19	17-20-29	11-16-22	19-23-32	14-18-25	20-25-35	16-19-28	22-27-38	17-21-30	23-29-40	18-22-32	25-30-43	19-24-34
	1A, 1B	cfm/Side Throw (ft)	281		375		470		563		656		750		845	
			15-19-27		18-22-32		20-25-35		22-27-39		24-30-42		26-32-45		27-34-48	
Duct Size 18 in. x 9 in.			337 -		450 18		562 25		675 31		787 35		900 39		1012 43	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
Duct Area 1.13 ft ²	4B	cfm/Side Throw (ft)	126	42	169	56	211	70	254	84	296	98	338	112	380	126
			10-15-22	6-9-16	14-18-25	8-12-19	16-20-28	10-15-21	18-22-31	12-16-23	19-24-34	14-17-25	21-25-36	15-19-26	22-27-38	16-20-28
	3A1	cfm/Side Throw (ft)	147	42	197	56	246	70	295	84	345	98	394	112	443	126
			11-16-23	6-9-16	15-19-26	8-12-19	17-21-29	10-15-21	19-23-32	12-16-23	20-25-35	14-17-25	22-26-37	15-19-26	23-28-40	16-20-28
	3B	cfm/Side Throw (ft)	168	84	225	112	281	141	337	169	394	197	450	225	506	253
			12-17-24	8-13-19	16-19-27	11-16-22	18-22-31	14-18-25	19-24-34	16-19-28	21-26-36	17-21-30	22-27-39	18-22-32	24-29-41	19-24-34
Duct Area 1.13 ft ²	2A, 2B	cfm/Side Throw (ft)	168		225		281		337		394		450		506	
			12-17-24		16-19-27		18-22-31		19-24-34		21-26-36		22-27-39		24-29-41	
	2E, 2F	cfm/Side Throw (ft)	253	84	338	112	421	141	506	169	591	197	675	225	759	253
			15-19-27	8-13-19	18-22-31	11-16-22	20-24-34	14-18-25	22-27-38	16-19-28	23-29-41	17-21-30	25-31-43	18-22-32	27-33-46	19-24-34
	1A, 1B	cfm/Side Throw (ft)	337		450		562		675		787		900		1012	
			17-20-29		19-24-33		22-26-37		24-29-41		25-31-44		27-33-47		29-35-50	

For Performance Notes and Return Factors, see end of section.

PERFORMANCE DATA

SMD/AMD

Neck Velocity (fpm) Velocity Pressure (in. w.g.) Total Pressure (in. w.g.)			300 0.006 0.036		400 0.01 0.065		500 0.016 0.099		600 0.022 0.144		700 0.031 0.196		800 0.04 0.256		900 0.05 0.324	
Duct Size 21 in. x 9 in.			393 - A B		524 18 A B		655 25 A B		786 31 A B		917 35 A B		1050 39 A B		1180 43 A B	
Duct Area 1.31 ft ²	4B	cfm/Side Throw (ft)	154	42	206	56	258	70	309	84	360	98	413	112	464	126
	3A1	cfm/Side Throw (ft)	175	42	234	56	292	70	351	84	410	98	468	112	527	126
	2A, 2B	cfm/Side Throw (ft)	196		262		327		393		458		525		590	
	2E, 2F	cfm/Side Throw (ft)	308	84	412	112	514	141	617	169	720	197	825	225	927	253
	1A, 1B	cfm/Side Throw (ft)	393		524		655		786		917		1050		1180	
			17-21-30		20-25-35		22-28-39		25-30-43		27-33-46		28-35-49		30-37-52	
Duct Size 24 in. x 9 in.			450 - A B		600 19 A B		750 26 A B		900 32 A B		1050 36 A B		1200 40 A B		1350 44 A B	
Duct Area 1.50 ft ²	4B	cfm/Side Throw (ft)	183	42	244	56	305	70	366	84	427	98	488	112	549	126
	3A1	cfm/Side Throw (ft)	204	42	272	56	340	70	408	84	476	98	544	112	612	126
	2A, 2B	cfm/Side Throw (ft)	225		300		375		450		525		600		675	
	2E, 2F	cfm/Side Throw (ft)	365	84	488	112	609	141	731	169	853	197	975	225	1097	253
	1A, 1B	cfm/Side Throw (ft)	450		600		750		900		1050		1200		1350	
			18-22-31		21-26-36		23-29-41		26-31-44		28-34-48		30-36-51		31-38-54	
Duct Size 15 in. x 12 in.			375 - A B		500 19 A B		625 26 A B		750 32 A B		875 36 A B		1000 40 A B		1125 44 A B	
Duct Area 1.25 ft ²	4B	cfm/Side Throw (ft)	112	75	150	100	187	125	225	150	262	175	300	200	337	225
	3A1	cfm/Side Throw (ft)	150	75	200	100	250	125	300	150	350	175	400	200	450	225
	3A2	cfm/Side Throw (ft)	129	117	172	156	215	195	258	234	301	273	344	312	387	351
	2A, 2B	cfm/Side Throw (ft)	187		250		312		375		437		500		562	
	2E, 2F	cfm/Side Throw (ft)	225	150	300	200	375	250	450	300	525	350	600	400	675	450
	1A, 1B	cfm/Side Throw (ft)	375		500		625		750		875		1000		1125	
			17-21-30		20-24-34		22-27-38		24-30-42		26-32-45		28-34-49		30-36-52	
Duct Size 18 in. x 12 in.			450 - A B		600 20 A B		750 27 A B		900 33 A B		1050 37 A B		1200 41 A B		1350 45 A B	
Duct Area 1.50 ft ²	4B	cfm/Side Throw (ft)	150	75	200	100	250	125	300	150	350	175	400	200	450	225
	3A1	cfm/Side Throw (ft)	187	75	250	100	312	125	375	150	437	175	500	200	562	225
	3A2	cfm/Side Throw (ft)	141	168	187	225	234	281	281	337	328	394	375	450	422	506
	2A, 2B	cfm/Side Throw (ft)	225		300		375		450		525		600		675	
	2E, 2F	cfm/Side Throw (ft)	300	150	400	200	500	250	600	300	700	350	800	400	900	450
	1A, 1B	cfm/Side Throw (ft)	450		600		750		900		1050		1200		1350	
			18-22-31		21-26-36		23-29-41		26-31-44		28-34-48		30-36-51		31-38-54	
Duct Size 21 in. x 12 in.			525 - A B		700 20 A B		875 27 A B		1050 33 A B		1225 37 A B		1400 41 A B		1575 45 A B	
Duct Area 1.75 ft ²	4B	cfm/Side Throw (ft)	187	75	250	100	312	125	375	150	437	175	500	200	562	225
	3A1	cfm/Side Throw (ft)	225	75	300	100	375	125	450	150	525	175	600	200	675	225
	3A2	cfm/Side Throw (ft)	148	230	197	306	246	382	295	460	345	535	394	612	443	688
	2A, 2B	cfm/Side Throw (ft)	262		350		437		525		612		700		787	
	2E, 2F	cfm/Side Throw (ft)	375	150	500	200	625	250	750	300	875	350	1000	400	1125	450
	1A, 1B	cfm/Side Throw (ft)	525		700		875		1050		1225		1400		1575	
			19-23-33		22-27-38		24-30-42		27-33-46		29-35-50		31-38-54		33-40-57	

For Performance Notes and Return Factors, see end of section.

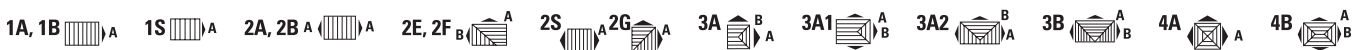
PERFORMANCE DATA

SMD/AMD

Neck Velocity (fpm) Velocity Pressure (in. w.g.) Total Pressure (in. w.g.)			300 0.006 0.036		400 0.01 0.065		500 0.016 0.099		600 0.022 0.144		700 0.031 0.196		800 0.04 0.256		900 0.05 0.324	
Duct Size 24 in. x 12 in.			Flow Rate (cfm) Sound (NC) 600 -		800 21		1000 28		1200 34		1400 38		1600 42		1800 46	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
Duct Area 2.00 ft ²	4B	cfm/Side Throw (ft)	225	75	300	100	375	125	450	150	525	175	600	200	675	225
			14-18-26	8-12-19	17-21-30	10-15-22	19-23-33	13-17-24	21-26-36	15-19-26	23-28-39	16-20-29	24-30-42	18-22-30	26-31-44	19-23-32
	3A1	cfm/Side Throw (ft)	262	75	350	100	437	175	525	150	612	175	700	200	787	225
			15-19-27	8-12-19	18-22-31	10-15-22	20-25-35	16-20-29	22-27-38	15-19-26	24-29-41	16-20-29	25-31-44	18-22-30	27-33-47	19-23-32
	3B	cfm/Side Throw (ft)	300	150	400	200	500	250	600	300	700	350	800	400	900	450
			16-20-28	11-16-23	19-23-32	15-19-26	21-26-36	17-21-30	23-28-40	19-23-32	25-30-43	20-25-35	26-32-46	22-26-37	28-34-48	23-28-40
	2A, 2B	cfm/Side Throw (ft)	300		400		500		600		700		800		900	
			16-20-28		19-23-32		21-26-36		23-28-40		25-30-43		26-32-46		28-34-48	
	2E, 2F	cfm/Side Throw (ft)	450	150	600	200	750	250	900	300	1050	350	1200	400	1350	450
			18-22-31	11-16-23	21-26-36	15-19-26	23-29-41	17-21-30	26-31-44	19-23-32	28-34-48	20-25-35	30-36-51	22-26-37	31-38-54	23-28-40
	1A, 1B	cfm/Side Throw (ft)	600		800		1000		1200		1400		1600		1800	
			20-24-34		23-28-39		25-31-44		28-34-48		30-37-52		32-39-56		34-42-59	
Duct Size 18 in. x 15 in.			Flow Rate (cfm) Sound (NC) 562 -		750 21		937 28		1125 34		1312 38		1500 42		1687 46	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
Duct Area 1.88 ft ²	4B	cfm/Side Throw (ft)	164	117	219	156	273	195	328	234	383	273	438	312	492	351
			12-17-24	10-15-21	16-19-27	13-17-25	18-21-30	16-19-28	19-24-33	17-21-30	21-25-36	19-23-33	22-27-38	20-25-35	24-29-41	21-26-37
	3A1	cfm/Side Throw (ft)	222	117	297	156	371	195	445	234	519	273	594	312	668	351
			14-18-26	10-15-21	17-21-30	13-17-25	19-23-33	16-19-28	21-26-36	17-21-30	23-28-39	19-23-33	24-30-42	20-25-35	26-31-44	21-26-37
	3A2	cfm/Side Throw (ft)	197	168	262	225	328	281	394	337	459	394	525	450	590	506
			13-18-25	12-17-24	17-20-29	16-19-27	18-23-32	18-22-31	20-25-35	19-24-34	22-27-38	21-26-36	23-29-40	22-27-39	25-30-43	24-29-41
	2A, 2B	cfm/Side Throw (ft)	281		375		468		562		656		750		843	
			15-19-27		18-22-32		20-25-35		22-27-39		24-30-42		26-32-45		27-34-48	
	2E, 2F	cfm/Side Throw (ft)	329	234	438	312	547	390	657	468	766	546	876	624	985	702
			16-20-29	14-18-26	19-23-33	17-21-30	21-26-37	19-24-34	23-29-40	21-26-37	25-31-44	23-28-40	27-33-47	24-30-42	29-35-50	26-32-45
	1A, 1B	cfm/Side Throw (ft)	562		750		937		1125		1312		1500		1687	
			19-24-33		22-27-39		25-31-43		27-33-47		29-36-51		32-39-55		33-41-58	
Duct Size 21 in. x 15 in.			Flow Rate (cfm) Sound (NC) 655 -		875 21		1092 28		1312 34		1532 38		1750 42		1970 46	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
Duct Area 2.19 ft ²	4B	cfm/Side Throw (ft)	210	117	281	156	351	195	422	234	493	273	563	312	634	351
			13-18-25	10-15-21	17-21-29	13-17-25	19-23-33	16-19-28	21-25-36	17-21-30	22-27-39	19-23-33	24-29-41	20-25-35	25-31-44	21-26-37
	3A1	cfm/Side Throw (ft)	269	117	359	156	448	195	539	234	629	273	719	312	809	351
			15-19-27	10-15-21	18-22-31	13-17-25	20-25-35	16-19-28	22-27-38	17-21-30	24-29-41	19-23-33	26-31-44	20-25-35	27-33-47	21-26-37
	3A2	cfm/Side Throw (ft)	213	230	284	306	355	382	426	460	498	535	569	612	641	688
			13-18-25	14-18-26	17-21-29	17-21-30	19-23-33	19-24-33	21-25-36	21-26-37	22-27-39	23-28-40	24-29-41	24-30-42	25-31-44	26-32-45
	2A, 2B	cfm/Side Throw (ft)	327		437		596		656		766		875		985	
			16-20-29		19-23-33		22-27-39		23-29-41		25-31-44		27-33-47		29-35-50	
	2E, 2F	cfm/Side Throw (ft)	422	234	563	312	702	390	844	468	986	546	1126	624	1268	702
			18-22-31	14-18-26	21-25-36	17-21-30	23-28-40	19-24-34	25-31-44	21-26-37	27-33-47	23-28-40	29-36-50	24-30-42	31-38-53	26-32-45
	1A, 1B	cfm/Side Throw (ft)	655		875		1092		1312		1532		1750		1970	
			20-25-35		23-29-40		26-32-45		29-35-49		31-38-53		33-40-57		35-43-61	
Duct Size 24 in. x 15 in.			Flow Rate (cfm) Sound (NC) 750 -		1000 22		1250 29		1500 35		1750 39		2000 43		2250 47	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
Duct Area 2.50 ft ²	4B	cfm/Side Throw (ft)	258	117	344	156	430	195	516	234	602	273	688	312	774	351
			15-19-27	10-15-21	18-22-31	13-17-25	20-25-35	16-19-27	22-27-38	17-21-30	24-29-41	19-23-32	25-31-44	20-25-35	27-33-46	21-26-37
	3A1	cfm/Side Throw (ft)	316	117	422	156	527	195	633	234	738	273	844	312	949	351
			16-20-28	10-15-21	19-23-33	13-17-25	21-26-37	16-19-27	23-28-40	17-21-30	25-31-43	19-23-32	27-33-46	20-25-35	28-35-49	21-26-37
	3A2	cfm/Side Throw (ft)	225	300	300	400	375	500	450	600	525	700	600	800	675	900
			14-18-26	16-20-28	17-21-30	19-23-32	19-24-33	21-26-36	21-26-36	23-28-40	23-28-39	25-30-43	24-30-42	26-32-46	26-32-45	28-34-48
	2A, 2B	cfm/Side Throw (ft)	375		500		625		750		875		1000		1125	
			17-21-30		20-24-34		22-27-38		24-30-42		26-32-45		28-34-49		30-36-52	
	2E, 2F	cfm/Side Throw (ft)	516	234	688	312	860	390	1032	468	1204	546	1376	624	1548	702
			19-23-33	14-18-26	22-27-38	17-21-30	24-30-42	19-24-34	27-33-46	21-26-37	29-35-50	23-28-40	31-38-53	25-30-43	33-40-56	26-32-45
	1A, 1B	cfm/Side Throw (ft)	750		1000		1250		1500		1750		2000		2250	
			21-26-36		24-30-42		27-33-47		30-36-51		32-39-55		34-42-59		36-44-63	

For Performance Notes and Return Factors, see end of section.

Core Style Legend



PERFORMANCE DATA

SMD/AMD

Neck Velocity (fpm) Velocity Pressure (in. w.g.) Total Pressure (in. w.g.)			300 0.006 0.036		400 0.01 0.065		500 0.016 0.099		600 0.022 0.144		700 0.031 0.196		800 0.04 0.256		900 0.05 0.324	
Duct Size 21 in. x 18 in.			Flow Rate (cfm) Sound (NC) 787 -		1050 22		1310 29		1575 36		1840 39		2100 43		2360 47	
Duct Area 2.63 ft ²	4B	cfm/Side Throw (ft)	225	169	300	225	374	281	450	337	526	394	600	450	674	506
	14-18-26	12-17-24	17-21-30	16-19-28	19-23-33	18-22-31	21-26-36	19-24-34	23-28-39	21-26-36	24-30-42	22-28-39	26-31-44	24-29-41		
	3A1	cfm/Side Throw (ft)	309	169	412	225	514	281	619	337	723	394	825	450	927	506
	16-20-28	12-17-24	19-23-33	16-19-28	21-26-36	18-22-31	23-28-40	19-24-34	25-31-43	21-26-36	27-33-46	22-28-39	28-35-49	24-29-41		
	3B	cfm/Side Throw (ft)	279	230	372	306	464	382	557	460	652	535	744	612	836	688
	15-19-27	14-18-26	18-22-32	17-21-30	20-25-35	19-24-33	22-27-39	21-26-37	24-30-42	23-28-40	26-32-45	24-30-42	27-34-48	26-32-45		
	2A, 2B	cfm/Side Throw (ft)	393		525		655		787		920		1050		1180	
Duct Area 3.00 ft ²	2E, 2F	cfm/Side Throw (ft)	17-21-30		20-25-35		22-28-39		25-30-43		27-33-46		28-35-49		30-37-52	
	1A, 1B	cfm/Side Throw (ft)	450	338	600	450	750	560	900	675	1060	790	1200	900	1350	1010
	18-22-31	17-20-29	21-26-36	19-24-33	23-29-41	21-26-37	26-31-44	24-29-41	28-34-48	26-31-44	30-36-51	27-33-47	31-38-54	29-35-50		
Duct Size 24 in. x 18 in.			Flow Rate (cfm) Sound (NC) 900 -		1200 23		1500 30		1800 36		2100 40		2400 44		2700 48	
Duct Area 3.00 ft ²	4B	cfm/Side Throw (ft)	281	169	375	225	469	281	563	337	656	394	750	450	844	506
	15-19-27	12-17-24	18-22-32	16-19-27	20-25-35	18-22-31	22-27-39	19-24-33	24-30-42	21-26-36	26-32-45	22-27-39	27-34-48	24-29-41		
	3A1	cfm/Side Throw (ft)	366	169	487	225	609	281	731	337	853	394	975	450	1098	506
	17-21-30	12-17-24	20-24-34	16-19-27	22-27-38	18-22-31	24-30-42	19-24-33	26-32-45	21-26-36	28-34-48	22-27-39	30-36-51	24-29-41		
	3B	cfm/Side Throw (ft)	300	300	400	400	500	500	600	600	700	700	800	800	900	900
	16-20-28	16-20-28	19-23-32	19-23-32	21-26-36	21-26-36	23-28-40	23-28-40	25-30-43	25-30-43	26-32-46	26-32-46	28-34-49	28-34-49		
	2A, 2B	cfm/Side Throw (ft)	450		600		750		900		1050		1200		1350	
Duct Area 3.50 ft ²	2E, 2F	cfm/Side Throw (ft)	18-22-31		21-26-36		23-29-41		26-31-44		28-34-48		30-36-51		31-38-54	
	1A, 1B	cfm/Side Throw (ft)	562	338	750	450	938	562	1125	675	1313	787	1500	900	1688	1012
	19-24-33	17-20-29	22-27-39	19-24-33	25-31-43	21-26-37	27-33-47	24-29-41	30-36-51	25-31-44	32-39-55	27-33-47	33-41-58	29-35-50		
Duct Size 24 in. x 21 in.			Flow Rate (cfm) Sound (NC) 1050 15		1400 24		1750 31		2100 37		2450 41		2800 45		3150 49	
Duct Area 3.50 ft ²	4B	cfm/Side Throw (ft)	295	230	394	306	493	382	590	460	690	535	788	612	887	688
	16-20-28	14-18-26	19-23-32	17-21-30	21-25-36	19-24-33	23-28-39	21-26-37	25-30-43	23-28-39	26-32-45	24-30-42	28-34-48	26-32-45		
	3A1	cfm/Side Throw (ft)	410	230	547	306	684	382	820	460	957	535	1094	612	1231	688
	18-22-31	14-18-26	20-25-35	17-21-30	23-28-39	19-24-33	25-31-43	21-26-37	27-33-47	23-28-39	29-35-50	24-30-42	31-37-53	26-32-45		
	3B	cfm/Side Throw (ft)	375	300	500	400	625	400	750	600	875	700	1000	800	1125	900
	17-21-30	16-20-28	20-24-34	19-23-32	22-27-38	19-23-32	24-30-42	23-28-39	26-32-45	25-30-43	28-34-49	26-32-45	30-36-52	28-34-48		
	2A, 2B	cfm/Side Throw (ft)	525		700		875		1050		1225		1400		1575	
Duct Area 4.00 ft ²	2E, 2F	cfm/Side Throw (ft)	19-23-33		22-27-38		24-30-42		27-33-46		29-35-50		31-38-54		33-40-57	
	1A, 1B	cfm/Side Throw (ft)	591	459	788	612	986	764	1180	920	1380	1070	1576	1224	1774	1376
	20-24-34	18-22-32	23-28-39	21-26-36	25-31-44	23-29-41	28-34-48	26-32-45	30-37-52	28-34-48	32-39-55	30-36-51	34-42-59	31-39-55		
Duct Size 24 in. x 24 in.			Flow Rate (cfm) Sound (NC) 1050 15		1400 24		1750 31		2100 37		2450 41		2800 45		3150 49	
Duct Area 4.00 ft ²	4B	cfm/Side Throw (ft)	295	230	394	306	493	382	590	460	690	535	788	612	887	688
	16-20-28	14-18-26	19-23-32	17-21-30	21-25-36	19-24-33	23-28-39	21-26-37	25-30-43	23-28-39	26-32-45	24-30-42	28-34-48	26-32-45		
	3A1	cfm/Side Throw (ft)	410	230	547	306	684	382	820	460	957	535	1094	612	1231	688
	18-22-31	14-18-26	20-25-35	17-21-30	23-28-39	19-24-33	25-31-43	21-26-37	27-33-47	23-28-39	29-35-50	24-30-42	31-37-53	26-32-45		
	3B	cfm/Side Throw (ft)	375	300	500	400	625	400	750	600	875	700	1000	800	1125	900
	17-21-30	16-20-28	20-24-34	19-23-32	22-27-38	19-23-32	24-30-42	23-28-39	26-32-45	25-30-43	28-34-49	26-32-45	30-36-52	28-34-48		
	2A, 2B	cfm/Side Throw (ft)	525		700		875		1050		1225		1400		1575	
Duct Area 4.50 ft ²	2E, 2F	cfm/Side Throw (ft)	19-23-33		22-27-38		24-30-42		27-33-46		29-35-50		31-38-54		33-40-57	
	1A, 1B	cfm/Side Throw (ft)	591	459	788	612	986	764	1180	920	1380	1070	1576	1224	1774	1376
	20-24-34	18-22-32	23-28-39	21-26-36	25-31-44	23-29-41	28-34-48	26-32-45	30-37-52	28-34-48	32-39-55	30-36-51	34-42-59	31-39-55		

SMD/AMD Return Factors

Duct Size	"-" SP	NC	Duct Size	"-" SP	NC	Duct Size	"-" SP	NC	Duct Size	"-" SP	NC
6 x 6	0.73 x Listed TP	Listed NC	9 x 6	0.87 x Listed TP	Listed NC - 1	15 x 9	1.20 x Listed TP	Listed NC + 3	24 x 12	1.80 x Listed TP	Listed NC + 5
9 x 9	0.87 x Listed TP	Listed NC + 2	12 x 6	1.13 x Listed TP	Listed NC + 1	18 x 9	1.47 x Listed TP	Listed NC + 3	18 x 15	1.40 x Listed TP	Listed NC + 4
12 x 12	0.93 x Listed TP	Listed NC + 4	15 x 6	1.33 x Listed TP	Listed NC + 1	21 x 9	1.73 x Listed TP	Listed NC + 4	21 x 15	1.47 x Listed TP	Listed NC + 5
15 x 15	1.27 x Listed TP	Listed NC + 4	18 x 6	1.87 x Listed TP	Listed NC + 2	24 x 9	2.00 x Listed TP	Listed NC + 4	24 x 15	1.80 x Listed TP	Listed NC + 6
18 x 18	1.47 x Listed TP	Listed NC + 6	21 x 6	2.27 x Listed TP	Listed NC + 3	15 x 12	1.13 x Listed TP	Listed NC + 2	21 x 18	1.53 x Listed TP	Listed NC + 5
21 x 21	1.80 x Listed TP	Listed NC + 8	24 x 6	2.73 x Listed TP	Listed NC + 4	18 x 12	1.33 x Listed TP	Listed NC + 3	24 x 18	1.73 x Listed TP	Listed NC + 6
24 x 24	1.89 x Listed TP	Listed NC + 8	12 x 9	2.73 x Listed TP	Listed NC + 4	21 x 12	1.53 x Listed TP	Listed NC + 5	24 x 21	1.47 x Listed TP	Listed NC + 7

Performance Notes:

- Tested in accordance with ASHRAE Standard 70 – 2023 Method of Testing for Rating the Performance of Air Outlets and Inlets.
- Airflow is in cubic feet per minute [cfm].
- NC, sound pressure levels, are based on a room absorption of 10 dB re 10⁻¹² Watts, and a single diffuser/grille.
- Blanks "-" indicate an NC level below 15.
- All pressures are in inches of water column [in. w.g.].
- Pressures not listed can be calculated using the following formula:
$$P_{total} = P_{static} + P_{velocity}$$
- Throw data is based on supply air and room air being at isothermal conditions.
- Throw data is given in feet [ft] to terminal velocities of:
150 fpm (minimum)
100 fpm (middle)
50 fpm (maximum)
- Performance Data is tabulated for supply air applications.
- Performance Data assumes the SMD / AMD is ceiling mounted for maximum ceiling effect. When no ceiling is present, the horizontal flow will be reduced by approximately 25%, producing a downward projection.
- Does not include effects of ceiling radiation damper (SMD-FR).

PERFORMANCE DATA

SMD/AMD with SR

Size		Duct Velocity (fpm) Velocity Pressure (in w.g.)	400 0.010	500 0.016	600 0.022	700 0.031	800 0.040	900 0.050	1000 0.062	1100 0.075	1200 0.090
SMD 6 x 6	6" Inlet	Flow Rate (cfm)	79	98	118	137	157	177	196	216	236
		Static Pressure (in w.g.)	0.041	0.047	0.055	0.063	0.073	0.084	0.097	0.112	0.129
		Sound (NC)	-	-	15	18	20	23	26	29	31
		Throw (ft.)	5-8-12	6-9-13	8-10-15	9-11-16	10-12-17	10-13-18	11-13-19	11-14-20	12-15-21
SMD 9 x 9	6" Inlet	Flow Rate (cfm)	79	98	118	137	157	177	196	216	236
		Static Pressure (in w.g.)	0.029	0.031	0.033	0.035	0.037	0.039	0.041	0.044	0.046
		Sound (NC)	-	-	-	-	-	17	20	23	25
		Throw (ft.)	2-3-5	2-3-7	3-4-8	3-5-10	4-5-11	4-6-12	5-7-13	5-7-14	5-8-14
	8" Inlet	Flow Rate (cfm)	140	175	209	244	279	314	349	384	419
		Static Pressure (in w.g.)	0.037	0.042	0.047	0.053	0.060	0.068	0.076	0.086	0.096
SMD 12 x 12	8" Inlet	Sound (NC)	-	-	17	19	23	27	31	34	37
		Throw (ft.)	4-6-11	5-7-13	6-8-14	7-10-15	7-11-16	8-12-17	9-13-18	10-13-19	11-14-20
	10" Inlet	Flow Rate (cfm)	140	175	209	244	279	314	349	384	419
		Static Pressure (in w.g.)	0.030	0.032	0.034	0.037	0.039	0.042	0.045	0.048	0.051
		Sound (NC)	-	-	-	-	17	20	23	26	29
		Throw (ft.)	2-3-5	2-3-7	3-4-8	3-5-9	4-5-11	4-6-12	4-7-13	5-7-14	5-8-15
	12" Inlet	Flow Rate (cfm)	218	273	327	382	436	491	545	600	654
		Static Pressure (in w.g.)	0.037	0.041	0.046	0.052	0.058	0.065	0.073	0.082	0.091
		Sound (NC)	-	17	19	21	26	30	34	37	40
		Throw (ft.)	4-5-11	4-7-13	5-8-15	6-9-16	7-11-17	8-12-18	9-13-19	10-14-20	11-15-21
SMD 15 x 15	12" Inlet	Flow Rate (cfm)	314	393	471	550	628	707	785	864	942
		Static Pressure (in w.g.)	0.047	0.055	0.066	0.078	0.093	0.111	0.132	0.157	0.187
		Sound (NC)	-	18	24	29	33	37	39	42	44
		Throw (ft.)	6-10-16	8-12-18	10-14-20	11-15-22	13-16-23	14-17-24	15-18-26	16-19-27	16-20-28
	14" Inlet	Flow Rate (cfm)	314	393	471	550	628	707	785	864	942
		Static Pressure (in w.g.)	0.037	0.042	0.047	0.053	0.060	0.067	0.076	0.085	0.096
		Sound (NC)	16	19	21	23	28	32	36	39	42
		Throw (ft.)	5-8-15	7-10-17	8-12-19	9-14-20	11-15-22	12-16-23	13-17-24	15-18-25	15-19-27
SMD 18 x 18	6" Inlet	Flow Rate (cfm)	428	535	641	748	855	962	1069	1176	1283
		Static Pressure (in w.g.)	0.046	0.054	0.064	0.076	0.090	0.106	0.126	0.149	0.176
		Sound (NC)	16	19	24	30	34	38	41	43	45
		Throw (ft.)	9-13-21	11-16-23	13-18-25	16-19-28	17-21-29	18-22-31	19-23-33	20-24-35	21-25-36
	10" Inlet	Flow Rate (cfm)	79	98	118	137	157	177	196	216	236
		Static Pressure (in w.g.)	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.025	0.025
		Sound (NC)	-	-	-	-	16	19	21	24	26
		Throw (ft.)	1-2-6	2-4-7	2-4-9	3-5-10	4-6-11	4-6-13	5-7-14	5-8-15	6-9-16
	12" Inlet	Flow Rate (cfm)	218	273	327	382	436	491	545	600	654
		Static Pressure (in w.g.)	0.029	0.030	0.032	0.034	0.036	0.038	0.040	0.042	0.045
		Sound (NC)	-	-	-	17	20	23	26	29	32
		Throw (ft.)	1-3-8	2-5-10	3-6-12	5-7-14	5-8-15	6-9-16	7-10-17	7-11-18	8-12-18
	14" Inlet	Flow Rate (cfm)	314	393	471	550	628	707	785	864	942
		Static Pressure (in w.g.)	0.033	0.036	0.039	0.043	0.047	0.051	0.056	0.061	0.067
		Sound (NC)	-	-	-	18	22	25	28	31	34
		Throw (ft.)	3-5-11	4-7-13	5-8-15	6-9-16	7-11-18	8-12-19	9-13-20	10-15-21	11-15-21
	16" Inlet	Flow Rate (cfm)	428	535	641	748	855	962	1069	1176	1283
		Static Pressure (in w.g.)	0.039	0.044	0.050	0.057	0.064	0.073	0.083	0.095	0.107
		Sound (NC)	18	20	23	25	30	34	37	40	43
		Throw (ft.)	5-8-15	6-10-16	8-12-18	9-13-19	10-15-21	12-16-22	13-16-23	14-17-24	15-18-25
	16" Inlet	Flow Rate (cfm)	559	698	838	977	1117	1257	1396	1536	1676
		Static Pressure (in w.g.)	0.046	0.055	0.066	0.078	0.093	0.111	0.131	0.156	0.186
		Sound (NC)	18	21	25	30	35	38	41	43	45
		Throw (ft.)	8-11-18	9-14-20	11-15-22	13-16-23	14-18-25	15-19-26	16-20-28	17-21-29	18-22-30

Performance Notes:

- Tested in accordance with ASHRAE Standard 70 – 2023 Method of Testing for Rating the Performance of Air Outlets and Inlets.
- Airflow is in cubic feet per minute [cfm].
- NC, sound pressure levels, are based on a room absorption of 10 dB re 10⁻¹² Watts, and a single diffuser/grille.
- Blanks "-" indicate an NC level below 15.
- All pressures are in inches of water column [in. w.g.].
- Pressures not listed can be calculated using the following formula:

$$P_{total} = P_{static} + P_{velocity}$$
- Throw data is based on supply air and room air being at isothermal conditions.
- Throw data is given in feet [ft] to terminal velocities of:
150 fpm (minimum)
100 fpm (middle)
50 fpm (maximum)
- Performance Data is tabulated for supply air applications.
- Performance Data assumes the SMD / AMD is ceiling mounted for maximum ceiling effect. When no ceiling is present, the horizontal flow will be reduced by approximately 25%, producing a downward projection.
- Does not include effects of ceiling radiation damper (SMD-FR).
- Throw data is based on a 4-way pattern.

PERFORMANCE DATA

SMDA/AMDA – Adjustable Pattern Controllers

Louvered Face Directional Diffuser with Adjustable Pattern Controllers Performance Factors

Duct Size	Sound NC (Add)		Pressure TP (Multiply)		Throw Vertical (Multiply)			
					Cooling ΔT °F		Heating ΔT °F	
	H	V	H	V	20	0	20	40
6 x 6	3	7	1.3	1.6	1.3	1.1	0.8	0.6
9 x 9	3	7	1.5	2.3	1.5	1.2	0.9	0.6
12 x 12	3	7	1.5	2.3	1.6	1.3	1.0	0.6
15 x 15	3	7	1.5	2.3	1.7	1.3	1.0	0.6
18 x 18	3	7	1.5	2.3	1.7	1.3	0.9	0.6
21 x 21	3	7	1.5	2.3	1.7	1.3	0.8	0.5
24 x 24	3	7	1.5	2.3	1.5	1.1	0.7	0.5

Performance Notes:

To obtain performance data for the SMD diffuser with adjustable pattern controllers, apply the correction factors listed opposite to the data listed for square SMD, core style 4A.

Correction factors apply as follows:

1. Sound: NC = listed + correction factor.
2. Pressure drop: TP = listed x correction factor.
3. Does not include effects of ceiling radiation damper (SMDA-FR)

Note: The throw factor is applied only to the listed throw at 50 fpm terminal velocity (V_t).

Example, Imperial Units:

SMD with adjustable pattern controllers, 12 in. x 12 in., 600 cfm, heating application, 40 °F ΔT , vertical projection.

NC = 30 + 7 = 37

TP = 0.144 x 2.3 = 0.33

Throw = 27 x 0.6 = 16ft V_t 50 fpm.

Note: Total pressure and throw obtained from performance data.

Core Style Legend



PERFORMANCE DATA

SMX/AMX – High Induction Construction

Neck Velocity (fpm) Velocity Pressure (in. w.g.) Total Pressure (in. w.g.)		300 0.006 0.038	400 0.01 0.068	500 0.016 0.106	600 0.022 0.153	700 0.031 0.208	800 0.04 0.272	900 0.05 0.344
Duct Size	Flow Rate (cfm)	75	100	125	150	175	200	225
6 in. x 6 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 0.25 ft²	4A cfm/Side	19	25	31	38	44	50	56
	Sound (NC)	-	-	-	20	25	30	33
	Throw (ft)	3-4-8	3-5-10	4-6-13	5-8-14	6-9-15	7-10-16	8-11-17
	3A cfm/Side	19	28	31	38	44	50	56
	Sound (NC)	-	38	47	56	66	75	84
	Throw (ft)	3-4-8	3-5-9	4-6-12	5-8-14	6-9-16	7-10-17	8-11-19
	2S, 2G cfm/Side	38	50	63	75	88	100	113
	Sound (NC)	-	-	20	26	30	35	38
	Throw (ft)	4-5-11	5-7-14	6-9-16	7-11-17	8-13-19	10-14-20	11-15-21
	1S cfm/Side	75	100	125	150	175	200	225
	Sound (NC)	-	-	21	27	32	36	40
	Throw (ft)	5-8-15	7-10-17	8-13-19	10-15-21	12-16-23	14-17-24	15-18-26
9 in. x 9 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 0.56 ft²	4A cfm/Side	42	56	70	84	98	113	127
	Sound (NC)	-	-	21	27	32	37	41
	Throw (ft)	4-6-11	5-8-15	6-10-16	8-11-18	9-13-19	10-15-21	11-15-22
	3A cfm/Side	42	63	70	84	98	113	127
	Sound (NC)	-	84	105	127	148	169	190
	Throw (ft)	4-6-11	5-7-14	6-10-16	8-12-18	9-13-19	11-15-22	14-17-25
	2S, 2G cfm/Side	84	113	141	169	197	225	253
	Sound (NC)	-	19	26	32	37	41	45
	Throw (ft)	5-8-15	7-11-18	9-13-20	11-15-22	13-17-24	14-18-25	15-19-27
	1S cfm/Side	169	225	281	338	394	450	506
	Sound (NC)	-	20	27	33	38	42	45
	Throw (ft)	8-11-19	10-15-22	13-17-25	15-19-27	17-21-29	18-22-31	19-23-33
12 in. x 12 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 1 ft²	4A cfm/Side	75	100	125	150	175	200	225
	Sound (NC)	-	19	26	32	37	42	46
	Throw (ft)	5-8-15	7-10-17	8-13-19	10-15-21	12-16-23	14-17-24	15-18-26
	3A cfm/Side	75	113	125	150	175	200	225
	Sound (NC)	-	150	188	225	263	300	338
	Throw (ft)	5-8-15	6-9-17	7-10-17	8-12-19	8-13-19	10-15-22	12-16-23
	2S, 2G cfm/Side	150	200	250	300	350	400	450
	Sound (NC)	-	23	30	36	41	45	49
	Throw (ft)	7-11-18	10-14-21	12-17-24	14-18-26	16-20-28	17-21-30	18-23-32
	1S cfm/Side	300	400	500	600	700	800	900
	Sound (NC)	15	24	31	36	41	46	49
	Throw (ft)	10-15-23	14-18-26	17-21-29	18-23-32	20-24-35	21-26-37	23-28-39
15 in. x 15 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 1.56 ft²	4A cfm/Side	117	156	195	234	273	313	352
	Sound (NC)	-	23	30	36	41	46	50
	Throw (ft)	6-10-17	8-13-20	11-16-22	13-17-24	15-18-26	16-20-28	17-21-30
	3A cfm/Side	117	176	195	234	273	313	352
	Sound (NC)	-	234	293	352	410	469	527
	Throw (ft)	6-10-17	8-12-19	8-13-20	10-16-22	11-16-22	13-18-25	13-17-24
	2S, 2G cfm/Side	234	313	391	469	547	625	703
	Sound (NC)	18	27	34	39	44	49	52
	Throw (ft)	9-13-21	12-17-24	15-19-27	17-21-30	19-23-32	20-24-34	21-26-36
	1S cfm/Side	469	625	781	938	1094	1250	1406
	Sound (NC)	18	27	34	39	44	49	52
	Throw (ft)	13-18-26	17-21-30	19-24-33	21-26-37	23-28-40	24-30-42	26-32-45

For Performance Notes and Return Factors, see end of section.

Core Style Legend



PERFORMANCE DATA

SMX/AMX – High Induction Construction

Neck Velocity (fpm)		300	400	500	600	700	800	900
Velocity Pressure (in. w.g.)		0.006	0.01	0.016	0.022	0.031	0.04	0.05
Total Pressure (in. w.g.)		0.038	0.068	0.106	0.153	0.208	0.272	0.344
Duct Size	Flow Rate (cfm)	675	900	1125	1350	1575	1800	2025
18 in. x 18 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 2.25 ft²	4A cfm/Side	169	225	281	338	394	450	506
	Sound (NC)	17	26	34	40	45	49	53
	Throw (ft)	8-11-19	10-15-22	13-17-25	15-19-27	17-21-29	18-22-31	19-23-33
	3A cfm/Side	169 253	225 338	281 422	338 506	394 591	450 675	506 759
	Sound (NC)	17	26	34	40	45	49	53
	Throw (ft)	8-11-19 9-14-22	10-15-22 12-18-25	13-17-25 16-20-28	15-19-27 18-22-30	17-21-29 19-23-33	18-22-31 20-25-35	19-23-33 22-26-37
	2S, 2G cfm/Side	338	450	563	675	788	900	1013
	Sound (NC)	20	29	36	42	47	51	55
	Throw (ft)	11-16-23	14-19-27	17-21-30	19-23-33	21-25-36	22-27-38	23-29-41
	1S cfm/Side	675	900	1125	1350	1575	1800	2025
	Sound (NC)	20	29	36	42	47	51	55
	Throw (ft)	15-20-29	19-24-33	22-26-37	24-29-41	25-31-44	27-33-47	29-35-50
Duct Size	Flow Rate (cfm)	919	1225	1532	1838	2144	2450	2757
21 in. x 21 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 3.06 ft²	4A cfm/Side	230	306	383	459	536	613	689
	Sound (NC)	19	29	36	42	48	52	56
	Throw (ft)	9-13-21	12-17-24	15-19-27	17-21-30	18-23-32	20-24-34	21-26-36
	3A cfm/Side	230 345	306 459	383 574	459 689	536 804	613 919	689 1034
	Sound (NC)	19	29	36	42	48	52	56
	Throw (ft)	9-13-21 11-16-24	12-17-24 14-19-27	15-19-27 18-22-30	17-21-30 19-24-33	18-23-32 21-25-36	20-24-34 22-27-39	21-26-36 24-29-41
	2S, 2G cfm/Side	459	613	766	919	1072	1225	1378
	Sound (NC)	23	32	39	45	49	54	57
	Throw (ft)	13-18-26	17-21-30	19-23-33	21-26-36	23-28-39	24-30-42	26-32-45
	1S cfm/Side	919	1225	1532	1838	2144	2450	2757
	Sound (NC)	23	32	39	45	49	54	57
	Throw (ft)	18-22-32	21-26-37	24-29-41	26-32-45	28-34-48	30-37-52	32-39-55
Duct Size	Flow Rate (cfm)	1200	1600	2000	2400	2800	3200	3600
24 in. x 24 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 4 ft²	4A cfm/Side	300	400	500	600	700	800	900
	Sound (NC)	22	31	39	45	50	54	58
	Throw (ft)	10-15-23	14-18-26	17-21-29	18-23-32	20-24-35	21-26-37	23-28-39
	3A cfm/Side	300 450	400 600	500 750	600 900	700 1050	800 1200	900 1350
	Sound (NC)	22	31	39	45	50	54	58
	Throw (ft)	10-15-23 12-18-26	14-18-26 17-21-30	17-21-29 19-23-33	18-23-32 21-26-36	20-24-35 23-28-39	21-26-37 24-30-42	23-28-39 26-31-44
	2S, 2G cfm/Side	600	800	1000	1200	1400	1600	1800
	Sound (NC)	25	34	41	47	51	56	59
	Throw (ft)	14-20-28	19-23-32	21-25-36	23-28-39	25-30-43	26-32-46	28-34-48
	1S cfm/Side	1200	1600	2000	2400	2800	3200	3600
	Sound (NC)	25	34	41	47	51	56	59
	Throw (ft)	20-24-34	23-28-40	26-31-44	28-34-49	30-37-52	32-40-56	34-42-59
Duct Size	Flow Rate (cfm)	113	150	188	225	263	300	338
9 in. x 6 in.		A B	A B	A B	A B	A B	A B	A B
Duct Area 0.38 ft²	4B cfm/Side	37 18	50 24	62 30	74 36	87 42	99 48	111 54
	Sound (NC)	-	-	18	24	29	33	37
	Throw (ft)	4-5-2011 2-4-07	5-7-14 3-5-10	6-9-16 4-6-12	7-11-17 5-7-14	8-12-18 6-9-15	10-14-20 7-10-16	11-15-21 7-11-17
	3A2 cfm/Side	35 43	47 57	58 71	70 86	81 100	93 114	105 128
	Sound (NC)	-	-	18	24	29	33	37
	Throw (ft)	3-5-2010 4-6-11	5-7-14 5-8-15	6-9-15 6-10-16	7-10-17 8-11-18	8-12-18 9-13-19	9-14-19 10-15-21	10-15-21 11-15-22
	2A, 2B cfm/Side	56	75	94	113	131	150	169
	Sound (NC)	-	16	23	29	34	38	41
	Throw (ft)	4-7-13	6-9-16	7-11-18	9-13-19	10-15-21	12-16-22	13-17-24
	1A, 1B cfm/Side	113	150	188	225	263	300	338
	Sound (NC)	-	17	24	30	35	39	43
	Throw (ft)	6-9-17	8-12-19	10-15-22	12-17-24	14-18-26	16-19-28	17-21-29

For Performance Notes and Return Factors, see end of section.

Core Style Legend



PERFORMANCE DATA

SMX/AMX — High Induction Construction

Neck Velocity (fpm) Velocity Pressure (in. w.g.) Total Pressure (in. w.g.)		300 0.006 0.038		400 0.01 0.068		500 0.016 0.106		600 0.022 0.153		700 0.031 0.208		800 0.04 0.272		900 0.05 0.344		
Duct Size	Flow Rate (cfm)	150		200		250		300		350		400		450		
12 in. x 6 in.		A	B	A	B	A	B	A	B	A	B	A	B	A	B	
Duct Area 0.5 ft²	4B	cfm/Side	56	18	74	24	93	30	111	36	130	42	148	48	167	54
		Sound (NC)	-	-	-	-	20	20	26	31	36	42	48	54	60	67
		Throw (ft)	4-7-13	2-4-07	6-9-16	3-5-10	7-11-18	4-6-12	9-13-19	5-7-14	10-15-21	6-9-15	12-16-22	7-10-16	13-17-24	7-11-17
	3B	cfm/Side	75	38	100	50	125	63	150	75	175	88	200	100	225	113
		Sound (NC)	-	-	-	-	20	20	26	31	36	42	48	54	60	67
		Throw (ft)	5-8-15	4-5-11	7-10-17	5-7-14	8-13-19	6-9-16	10-15-21	7-11-17	12-16-23	8-13-19	14-17-24	10-14-20	15-18-26	11-15-21
	2A, 2B	cfm/Side	75	-	100	-	125	-	150	-	175	-	200	-	225	-
		Sound (NC)	-	-	18	-	25	-	31	-	36	-	40	-	44	-
		Throw (ft)	5-8-15	-	7-10-17	-	8-13-19	-	10-15-21	-	12-16-23	-	14-17-24	-	15-18-26	-
	1A, 1B	cfm/Side	150	-	200	-	250	-	300	-	350	-	400	-	450	-
		Sound (NC)	-	-	19	-	26	-	32	-	37	-	41	-	45	-
		Throw (ft)	7-11-18	-	10-14-21	-	12-17-24	-	14-18-26	-	16-20-28	-	17-21-30	-	18-23-32	-
Duct Size	Flow Rate (cfm)	188		250		313		375		438		500		563		
15 in. x 6 in.		A	B	A	B	A	B	A	B	A	B	A	B	A	B	
Duct Area 0.63 ft²	4B	cfm/Side	75	19	100	25	125	31	150	38	175	44	200	50	225	56
		Sound (NC)	-	-	15	-	22	-	28	-	33	-	38	-	42	-
		Throw (ft)	5-8-15	3-4-08	7-10-17	3-5-10	8-13-19	4-6-13	10-15-21	5-8-14	12-16-23	6-9-15	14-17-24	7-10-16	15-18-26	8-11-17
	3A1	cfm/Side	84	19	113	25	141	31	169	38	197	44	225	50	253	56
		Sound (NC)	-	-	15	-	22	-	28	-	33	-	38	-	42	-
		Throw (ft)	5-8-15	3-4-08	7-11-18	3-5-10	9-13-20	4-6-13	11-15-22	5-8-14	13-17-24	6-9-15	14-18-25	7-10-16	15-19-27	8-11-17
	2A, 2B	cfm/Side	94	-	125	-	156	-	188	-	219	-	250	-	281	-
		Sound (NC)	-	-	20	-	27	-	32	-	37	-	42	-	45	-
		Throw (ft)	6-9-16	-	8-11-18	-	9-14-21	-	11-16-23	-	13-17-24	-	15-18-26	-	16-20-28	-
	1A, 1B	cfm/Side	188	-	250	-	313	-	375	-	438	-	500	-	563	-
		Sound (NC)	-	-	21	-	28	-	33	-	38	-	42	-	46	-
		Throw (ft)	8-12-20	-	11-16-23	-	13-18-25	-	16-20-28	-	17-21-30	-	19-23-32	-	20-24-34	-
Duct Size	Flow Rate (cfm)	225		300		375		450		525		600		675		
18 in. x 6 in.		A	B	A	B	A	B	A	B	A	B	A	B	A	B	
Duct Area 0.75 ft²	4B	cfm/Side	95	18	126	24	158	30	189	36	221	42	252	48	284	54
		Sound (NC)	-	-	16	-	24	-	30	-	35	-	39	-	43	-
		Throw (ft)	6-9-16	2-4-07	8-11-18	3-5-10	9-14-21	4-6-12	11-16-23	5-7-14	13-17-24	6-9-15	15-18-26	7-10-16	16-20-28	7-11-17
	3A1	cfm/Side	104	18	138	24	173	30	207	36	242	42	276	48	311	54
		Sound (NC)	-	-	16	-	24	-	30	-	35	-	39	-	43	-
		Throw (ft)	6-9-16	2-4-07	8-12-19	3-5-10	10-15-21	4-6-12	12-16-23	5-7-14	14-18-25	6-9-15	16-19-27	7-10-16	16-20-28	7-11-17
	2A, 2B	cfm/Side	113	-	150	-	188	-	225	-	263	-	300	-	338	-
		Sound (NC)	-	-	21	-	28	-	34	-	39	-	43	-	47	-
		Throw (ft)	6-9-17	-	8-12-19	-	10-15-22	-	12-17-24	-	14-18-26	-	16-19-28	-	17-21-29	-
	1A, 1B	cfm/Side	225	-	300	-	375	-	450	-	525	-	600	-	675	-
		Sound (NC)	-	-	22	-	29	-	35	-	39	-	44	-	47	-
		Throw (ft)	9-13-21	-	12-17-24	-	15-19-27	-	17-21-29	-	18-22-32	-	20-24-34	-	21-25-36	-
Duct Size	Flow Rate (cfm)	225		300		375		450		525		600		675		
12 in. x 9 in.		A	B	A	B	A	B	A	B	A	B	A	B	A	B	
Duct Area 0.75 ft²	4B	cfm/Side	70	43	93	57	116	71	140	86	163	100	186	114	209	128
		Sound (NC)	-	-	16	-	24	-	30	-	35	-	39	-	43	-
		Throw (ft)	5-7-15	4-6-11	7-10-17	5-8-15	8-12-19	6-10-16	10-15-21	8-11-18	11-16-22	9-13-19	13-17-24	10-15-21	15-18-25	11-15-22
	3A2	cfm/Side	74	74	99	99	124	124	149	149	173	173	198	198	223	223
		Sound (NC)	-	-	16	-	24	-	30	-	35	-	39	-	43	-
		Throw (ft)	5-8-15	5-8-15	7-10-17	7-10-17	8-13-19	8-13-19	10-15-21	10-15-21	12-16-23	12-16-23	13-17-24	13-17-24	15-18-26	15-18-26
	2A, 2B	cfm/Side	113	-	150	-	188	-	225	-	263	-	300	-	338	-
		Sound (NC)	-	-	21	-	28	-	34	-	39	-	43	-	47	-
		Throw (ft)	6-9-17	-	8-12-19	-	10-15-22	-	12-17-24	-	14-18-26	-	16-19-28	-	17-21-29	-
	1A, 1B	cfm/Side	225	-	300	-	375	-	450	-	525	-	600	-	675	-
		Sound (NC)	-	-	22	-	29	-	35	-	39	-	44	-	47	-
		Throw (ft)	9-13-21	-	12-17-24	-	15-19-27	-	17-21-29	-	18-22-32	-	20-24-34	-	21-25-36	-

Performance Notes:

- Tested in accordance with ASHRAE Standard 70 – 2023 Method of Testing for Rating the Performance of Air Outlets and Inlets.
- Airflow is in cubic feet per minute [cfm].
- NC, sound pressure levels, are based on a room absorption of 10 dB re 10⁻¹² Watts, and a single diffuser/grille.
- Blanks "-" indicate an NC level below 15.
- All pressures are in inches of water column [in. w.g.].
- Pressures not listed can be calculated using the following formula:
P_{total} = P_{static} + P_{velocity}
- Throw data is based on supply air and room air being at isothermal conditions
- Throw data is given in feet [ft] to terminal velocities of:
150 fpm (minimum)
100 fpm (middle)
50 fpm (maximum)
- Additional performance data for other patterns and rectangular sizes available upon request.
- Does not include effects of ceiling radiation damper (SMX-FR).

Core Style Legend



PERFORMANCE DATA

MSD – Security Construction

Neck Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.) Total Pressure (in. w.g.)	300 0.006 0.042	400 0.01 0.074	500 0.016 0.115	600 0.022 0.166	700 0.031 0.226	800 0.04 0.296	900 0.05 0.374
6 x 6	Flow Rate (cfm)	75	100	125	150	175	200	225
	Sound (NC)	-	-	21	28	33	38	42
	Throw (ft)	2-5-9	4-6-10	5-8-11	6-9-13	7-10-14	8-10-15	9-11-15
9 x 9	Flow Rate (cfm)	169	225	281	338	394	450	506
	Sound (NC)	-	18	26	33	38	43	47
	Throw (ft)	3-5-11	5-7-15	6-9-17	7-11-19	9-13-20	10-15-22	11-16-23
12 x 12	Flow Rate (cfm)	300	400	500	600	700	800	900
	Sound (NC)	-	22	30	36	41	46	50
	Throw (ft)	3-6-13	5-8-17	7-10-21	8-13-25	10-15-27	11-17-29	13-19-31
15 x 15	Flow Rate (cfm)	469	625	781	938	1094	1250	1406
	Sound (NC)	-	24	32	39	44	49	53
	Throw (ft)	3-7-14	6-9-19	8-12-23	9-14-28	11-16-32	12-19-36	14-21-38
18 x 18	Flow Rate (cfm)	675	900	1125	1350	1575	1800	2025
	Sound (NC)	17	27	35	41	46	51	55
	Throw (ft)	4-8-15	6-10-20	8-13-25	10-15-30	12-18-35	13-20-40	15-23-45
21 x 21	Flow Rate (cfm)	919	1225	1531	1838	2144	2450	2756
	Sound (NC)	18	29	36	43	48	53	57
	Throw (ft)	4-8-16	7-11-22	9-14-27	11-16-32	13-19-38	14-22-43	16-24-49
24 x 24	Flow Rate (cfm)	1200	1600	2000	2400	2800	3200	3600
	Sound (NC)	20	30	38	44	50	55	59
	Throw (ft)	4-9-17	7-12-23	10-14-29	12-17-35	13-20-40	15-23-46	17-26-52

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 a room absorption of -10 dB, re 10⁻¹² watt s and one diffuser.
7. Performance data is tabulated for supply air applications.
8. Blanks "-" indicate an NC level below 15.
9. Corrections for return application: add 5 To listed NC; multiply listed total pressure by 1.40 to obtain negative static pressure.
10. Performance data is based on L4 faceplate pattern.

PERFORMANCE DATA

SMDP – Plaque Face, 1 Slot

6	Flow Rate (cfm)	39	59	79	98	118	137	157	196	236
	Neck Velocity (fpm)	200	300	400	500	600	700	800	1000	1200
	Total Pressure (in. w.g.)	0.006	0.014	0.025	0.039	0.056	0.077	0.100	0.156	0.225
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
	Sound (NC)	-	-	-	-	-	18	22	28	33
	Throw (ft) 150, 100, 50	0-1-2	1-1-4	1-2-5	2-3-7	2-4-8	3-5-9	4-5-10	4-7-11	5-8-13
8	Flow Rate (cfm)	70	105	140	174	209	244	279	349	419
	Neck Velocity (fpm)	200	300	400	500	600	700	800	1000	1200
	Total Pressure (in. w.g.)	0.014	0.032	0.058	0.090	0.130	0.176	0.230	0.360	0.518
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
	Sound (NC)	-	-	-	21	26	30	33	40	45
	Throw (ft) 150, 100, 50	1-2-5	2-4-7	3-5-9	4-6-11	5-7-12	5-8-13	6-9-14	8-11-15	9-12-17
10	Flow Rate (cfm)	109	164	218	273	327	382	436	545	654
	Neck Velocity (fpm)	200	300	400	500	600	700	800	1000	1200
	Total Pressure (in. w.g.)	0.027	0.062	0.110	0.172	0.247	0.337	0.440	0.687	0.990
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
	Sound (NC)	-	16	24	30	35	39	43	49	54
	Throw (ft) 150, 100, 50	2-4-7	4-5-10	5-7-12	6-9-14	7-10-15	9-11-16	10-12-17	11-14-19	12-15-21

SMDP – Plaque Face, 2 Slot

6	Flow Rate (cfm)	39	59	79	98	118	137	157	196	236
	Neck Velocity (fpm)	200	300	400	500	600	700	800	1000	1200
	Total Pressure (in. w.g.)	0.004	0.009	0.016	0.025	0.036	0.049	0.064	0.100	0.144
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
	Sound (NC)	-	-	-	-	-	-	16	22	27
	Throw 150, 100, 50	0-0-1	0-0-2	0-1-3	0-1-4	1-2-5	1-2-6	1-3-7	2-4-9	3-5-11
8	Flow Rate (cfm)	70	105	140	174	209	244	279	349	419
	Neck Velocity (fpm)	200	300	400	500	600	700	800	1000	1200
	Total Pressure (in. w.g.)	0.007	0.016	0.028	0.044	0.063	0.086	0.112	0.175	0.252
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
	Sound (NC)	-	-	-	-	18	22	26	32	37
	Throw (ft) 150, 100, 50	0-1-2	1-1-5	1-2-6	2-3-8	2-5-10	3-6-11	4-6-13	5-8-15	6-10-17
10	Flow Rate (cfm)	109	164	218	273	327	382	436	545	654
	Neck Velocity (fpm)	200	300	400	500	600	700	800	1000	1200
	Total Pressure (in. w.g.)	0.011	0.024	0.043	0.067	0.097	0.132	0.172	0.269	0.387
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
	Sound (NC)	-	-	15	21	26	30	34	39	44
	Throw (ft) 150, 100, 50	1-1-5	1-3-7	2-5-10	4-6-12	5-7-15	6-9-16	7-10-17	8-12-19	10-15-21
12	Flow Rate (cfm)	157	236	314	393	471	550	628	785	942
	Neck Velocity (fpm)	200	300	400	500	600	700	800	1000	1200
	Total Pressure (in. w.g.)	0.015	0.034	0.061	0.096	0.138	0.187	0.245	0.382	0.550
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
	Sound (NC)	-	-	21	27	32	36	40	46	51
	Throw (ft) 150, 100, 50	1-3-7	3-5-11	5-7-14	6-9-16	7-11-18	8-13-19	10-14-21	12-16-23	14-18-25

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 a room absorption of -10 dB, re 10⁻¹² watt s and one diffuser.
7. Blanks "-" indicate an NC level below 15.

Core Style Legend



PERFORMANCE DATA

SMDP – Plaque Face, 3 Slot

8	Flow Rate (cfm)	70	105	140	174	209	244	279	349	419
	Neck Velocity (fpm)	200	300	400	500	600	700	800	1000	1200
	Total Pressure (in. w.g.)	0.006	0.013	0.023	0.035	0.051	0.069	0.090	0.141	0.203
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
	Sound (NC)	-	-	-	16	21	25	29	35	40
10	Throw (ft) 150, 100, 50	0-0-2	0-1-4	1-2-6	1-3-7	-4-9	2-5-10	3-6-12	5-7-15	6-9-17
	Flow Rate (cfm)	109	164	218	273	327	382	436	545	654
	Neck Velocity (fpm)	200	300	400	500	600	700	800	1000	1200
	Total Pressure (in. w.g.)	0.007	0.017	0.030	0.046	0.067	0.091	0.119	0.186	0.268
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
12	Sound (NC)	-	-	-	19	24	28	32	37	42
	Throw (ft) 150, 100, 50	0-1-4	1-2-7	2-4-9	3-6-12	4-7-14	5-8-16	6-9-17	8-12-19	9-14-21
	Flow Rate (cfm)	157	236	314	393	471	550	628	785	942
	Neck Velocity (fpm)	200	300	400	500	600	700	800	1000	1200
	Total Pressure (in. w.g.)	0.009	0.021	0.037	0.058	0.084	0.114	0.149	0.233	0.335
14	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
	Sound (NC)	-	-	16	21	26	30	34	40	45
	Throw (ft) 150, 100, 50	1-2-7	2-5-10	4-7-13	6-8-16	7-10-18	8-12-19	9-13-21	11-16-23	13-18-25
	Flow Rate (cfm)	214	321	427	534	641	748	855	1068	1282
	Neck Velocity (fpm)	200	300	400	500	600	700	800	1000	1200
	Total Pressure (in. w.g.)	0.011	0.025	0.045	0.070	0.101	0.138	0.180	0.281	0.405
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
	Sound (NC)	-	-	17	23	28	32	36	42	47
	Throw (ft) 150, 100, 50	2-4-9	4-7-14	6-9-17	8-11-19	9-14-21	11-16-22	12-17-24	15-19-27	17-21-29

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 a room absorption of -10 dB, re 10⁻¹² watt s and one diffuser.
7. Blanks "-" indicate an NC level below 15.

Core Style Legend



PERFORMANCE DATA

LCMD – Light Commercial Construction

Neck Velocity (fpm) Velocity Pressure (in. w.g.) Total Pressure (in. w.g.)			300 0.006 0.049	400 0.01 0.086	500 0.016 0.135	600 0.022 0.195	700 0.031 0.265	800 0.04 0.346	900 0.05 0.438
Duct Size 6 in. x 6 in.	Flow Rate (cfm) Sound (NC)	75 -	100 18	125 23	150 26	175 30	200 33	225 35	
		A B	A B	A B	A B	A B	A B	A B	
Duct Area 0.25 ft²	4A	cfm/Side Throw (ft)	19 3-4-9	25 4-6-12	31 5-7-15	38 6-9-17	44 7-10-20	50 8-12-21	56 9-13-23
	3A	cfm/Side Throw (ft)	19 28 3-4-9 4-5-11	25 38 4-6-12 5-7-14	31 47 5-7-15 6-9-18	38 56 6-9-17 7-11-21	44 66 7-10-20 8-12-23	50 75 8-12-21 10-14-24	56 84 9-13-23 11-16-26
	2S, 2G	cfm/Side Throw (ft)	38 4-6-12	50 5-8-16	63 7-10-21	75 8-12-23	88 10-14-24	100 11-16-26	113 12-19-28
	1S	cfm/Side Throw (ft)	75 6-9-17	100 8-12-23	125 10-15-25	150 12-17-28	175 14-20-30	200 16-23-32	225 17-24-34
Duct Size 8 in. x 8 in.	Flow Rate (cfm) Sound (NC)	133 -	178 21	222 26	266 30	311 33	355 36	400 38	
		A B	A B	A B	A B	A B	A B	A B	
Duct Area 0.444 ft²	4A	cfm/Side Throw (ft)	33 4-6-12	45 5-8-16	56 6-10-19	67 8-12-22	78 9-14-24	89 10-16-25	100 12-17-27
	3A	cfm/Side Throw (ft)	33 50 4-6-12 5-7-14	45 67 5-8-16 6-10-19	56 83 6-10-19 8-12-22	67 100 8-12-22 9-14-25	78 117 9-14-24 11-17-27	89 133 10-16-25 13-19-28	100 150 12-17-27 14-21-30
	2S, 2G	cfm/Side Throw (ft)	67 5-8-16	89 7-11-22	111 9-14-24	133 11-16-27	156 13-19-29	178 15-22-31	200 16-23-33
	1S	cfm/Side Throw (ft)	133 8-12-23	178 10-16-27	222 13-19-30	266 16-23-32	311 18-25-35	355 21-27-37	400 23-28-40
Duct Size 10 in. x 10 in.	Flow Rate (cfm) Sound (NC)	208 17	278 23	347 28	416 32	486 35	555 38	625 41	
		A B	A B	A B	A B	A B	A B	A B	
Duct Area 0.694 ft²	4A	cfm/Side Throw (ft)	52 5-7-15	70 6-10-19	87 8-12-23	104 10-15-25	122 11-17-27	139 13-19-29	156 15-22-30
	3A	cfm/Side Throw (ft)	52 78 5-7-15 6-9-18	70 104 6-10-19 8-12-23	87 130 8-12-23 10-15-25	104 156 10-15-25 12-18-28	122 182 11-17-27 14-21-30	139 208 13-19-29 16-23-32	156 234 15-22-30 18-24-34
	2S, 2G	cfm/Side Throw (ft)	104 7-10-21	139 9-14-25	174 11-17-28	208 14-21-30	243 16-23-33	278 18-25-35	313 21-26-37
	1S	cfm/Side Throw (ft)	208 10-15-26	278 13-19-30	347 16-24-34	416 19-26-37	486 23-28-40	555 25-30-43	625 26-32-45
Duct Size 12 in. x 12 in.	Flow Rate (cfm) Sound (NC)	300 19	400 25	500 30	600 34	700 37	800 40	900 43	
		A B	A B	A B	A B	A B	A B	A B	
Duct Area 1 ft²	4A	cfm/Side Throw (ft)	75 6-9-17	100 8-12-23	125 10-15-25	150 12-17-28	175 14-20-30	200 16-23-32	225 17-24-34
	3A	cfm/Side Throw (ft)	75 113 6-9-17 7-11-21	100 150 8-12-23 10-14-25	125 188 10-15-25 12-18-28	150 225 12-17-28 14-21-31	175 263 14-20-30 17-24-33	200 300 16-23-32 19-25-36	225 338 17-24-34 21-27-38
	2S, 2G	cfm/Side Throw (ft)	150 8-12-24	200 11-16-27	250 14-21-31	300 16-24-34	350 19-26-36	400 22-27-39	450 24-29-41
	1S	cfm/Side Throw (ft)	300 12-17-29	400 16-23-33	500 19-26-37	600 23-29-41	700 26-31-44	800 27-33-47	900 29-35-50
Duct Size 14 in. x 14 in.	Flow Rate (cfm) Sound (NC)	408 21	544 27	680 32	816 36	952 39	1088 42	1224 44	
		A B	A B	A B	A B	A B	A B	A B	
Duct Area 1.36 ft²	4A	cfm/Side Throw (ft)	102 7-10-20	136 9-14-25	170 11-17-27	204 14-20-30	238 16-23-33	272 18-25-35	306 20-26-37
	3A	cfm/Side Throw (ft)	102 153 7-10-20 8-12-24	136 204 9-14-25 11-17-28	170 255 11-17-27 14-21-31	204 306 14-20-30 17-24-34	238 357 16-23-33 19-26-36	272 408 18-25-35 22-28-39	306 459 20-26-37 24-29-41
	2S, 2G	cfm/Side Throw (ft)	204 10-14-26	272 13-19-30	340 16-24-33	408 19-26-37	476 22-28-40	544 24-30-42	612 26-32-45
	1S	cfm/Side Throw (ft)	408 14-20-32	544 18-26-36	680 23-29-41	816 26-32-45	952 28-34-48	1088 30-36-52	1224 32-39-55
Duct Size 16 in. x 16 in.	Flow Rate (cfm) Sound (NC)	531 22	708 29	885 33	1062 37	1239 40	1416 43	1593 46	
		A B	A B	A B	A B	A B	A B	A B	
Duct Area 1.77 ft²	4A	cfm/Side Throw (ft)	133 8-12-23	177 10-15-26	221 13-19-30	266 15-23-32	310 18-25-35	354 21-26-37	398 23-28-40
	3A	cfm/Side Throw (ft)	133 199 8-12-23 9-14-26	177 266 10-15-26 13-19-30	221 332 13-19-30 16-23-33	266 398 15-23-32 19-26-36	310 465 18-25-35 22-28-39	354 531 21-26-37 24-30-42	398 597 23-28-40 26-32-45
	2S, 2G	cfm/Side Throw (ft)	266 11-16-28	354 15-22-32	443 18-25-36	531 22-28-39	620 25-30-43	708 26-32-46	797 28-34-48
	1S	cfm/Side Throw (ft)	531 15-23-34	708 21-28-39	885 25-31-44	1062 28-34-48	1239 30-37-52	1416 32-39-56	1593 34-42-59

For Performance Notes and Return Factors, see end of section.

Core Style Legend



PERFORMANCE DATA

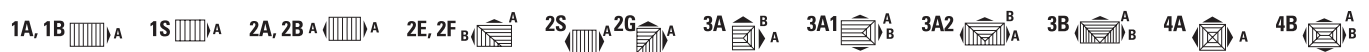
LCMD – Light Commercial Construction

Neck Velocity (fpm) Velocity Pressure (in. w.g.) Total Pressure (in. w.g.)			300 0.006 0.049	400 0.01 0.086	500 0.016 0.135	600 0.022 0.195	700 0.031 0.265	800 0.04 0.346	900 0.05 0.438
Duct Size 18 in. x 18 in.	Flow Rate (cfm) Sound (NC)		675 24	900 30	1125 35	1350 38	1575 42	1800 45	2025 47
Duct Area 2.25 ft²	4A	cfm/Side Throw (ft)	169 9-13-25	225 12-17-28	281 15-22-32	338 17-25-35	44 20-27-38	450 23-28-40	506 25-30-43
	3A	cfm/Side Throw (ft)	169 9-13-25	253 11-16-28	338 12-17-28	422 14-21-32	506 15-22-32	591 17-25-35	759 18-25-36
	2S, 2G	cfm/Side Throw (ft)	338 12-19-30	450 16-24-35	563 21-27-39	675 24-30-42	788 26-32-46	900 28-35-49	1013 30-37-52
	1S	cfm/Side Throw (ft)	675 17-26-36	900 23-30-42	1125 27-33-47	1350 30-36-52	1575 32-39-56	1800 34-42-60	2025 36-45-63
		Flow Rate (cfm) Sound (NC)	831 25	1108 31	1385 36	1162 40	1939 43	2216 46	2493 48
Duct Area 2.77 ft²	4A	cfm/Side Throw (ft)	208 10-15-26	277 13-19-30	346 16-24-34	416 19-26-37	485 23-28-40	554 25-30-43	623 26-32-45
	3A	cfm/Side Throw (ft)	208 10-15-26	312 12-18-29	416 13-19-30	519 16-24-34	623 18-26-37	727 20-27-38	935 22-30-42
	2S, 2G	cfm/Side Throw (ft)	416 14-21-32	554 18-26-37	693 23-29-41	831 26-32-45	970 28-34-48	1108 30-37-52	1247 32-39-55
	1S	cfm/Side Throw (ft)	831 19-27-39	1108 26-32-45	1385 29-35-50	1662 32-39-55	1939 34-42-59	2216 36-45-63	2493 39-47-67
		Flow Rate (cfm) Sound (NC)	1008 26	1344 32	1680 37	2016 41	2352 44	2688 47	3024 49
Duct Area 3.36 ft²	4A	cfm/Side Throw (ft)	252 11-16-28	336 14-21-32	420 18-25-36	504 21-28-39	588 24-30-42	672 26-32-45	756 28-34-48
	3A	cfm/Side Throw (ft)	252 11-16-28	378 13-20-31	504 14-21-32	630 17-25-36	756 18-25-36	882 20-27-38	1134 22-30-42
	2S, 2G	cfm/Side Throw (ft)	504 15-23-34	672 20-27-39	840 25-31-43	1008 27-34-47	1176 30-36-51	1344 32-39-55	1512 34-41-58
	1S	cfm/Side Throw (ft)	1008 21-29-41	1344 27-33-47	1680 30-37-53	2016 33-41-58	2352 36-44-62	2688 39-47-67	3024 41-50-71
		Flow Rate (cfm) Sound (NC)	1200 27	1600 33	2000 38	2400 42	2800 45	3200 48	3600 50
Duct Area 4 ft²	4A	cfm/Side Throw (ft)	300 12-17-29	400 16-23-33	500 19-26-37	600 23-29-41	700 26-31-44	800 27-33-47	900 29-35-50
	3A	cfm/Side Throw (ft)	300 12-17-29	450 14-21-32	600 16-23-33	750 19-27-38	900 22-30-42	1050 25-31-43	1350 28-34-48
	2S, 2G	cfm/Side Throw (ft)	600 16-25-35	800 22-29-41	1000 26-32-46	1200 29-35-50	1400 31-38-54	1600 33-41-58	1800 35-43-61
	1S	cfm/Side Throw (ft)	1200 23-30-43	1600 29-35-50	2000 32-39-55	2400 35-43-61	2800 38-46-66	3200 41-50-70	3600 43-53-74
		Flow Rate (cfm) Sound (NC)	1200 27	1600 33	2000 38	2400 42	2800 45	3200 48	3600 50

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5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC values are based on a room absorption of -10 dB, re 10⁻¹² watt s and one diffuser.
7. Blanks "-" indicate an NC level below 15.

Core Style Legend





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