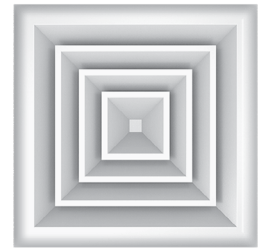


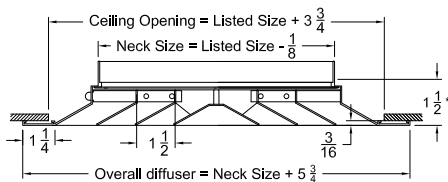
MODEL 5000

Extruded aluminum square/rectangular louvered face ceiling diffuser, with spring loaded latches designed for easy removal of cores. Straight deflector blades make this diffuser excellent for high capacity systems. Available with a variety of air pattern variations and optional induction vanes. Several frame styles are available to satisfy all standard mounting methods.

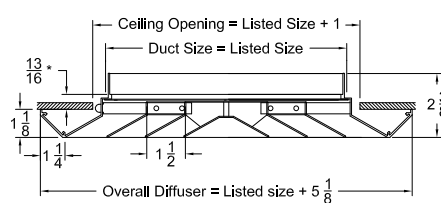


- Variety of air patterns – 3" size increments – 1 1/2" vane spacing
- Extruded aluminum construction – choice of 8 mounting frames
- Easily removable spring loaded cores – no tools required
- Optional round neck possible with TR transition

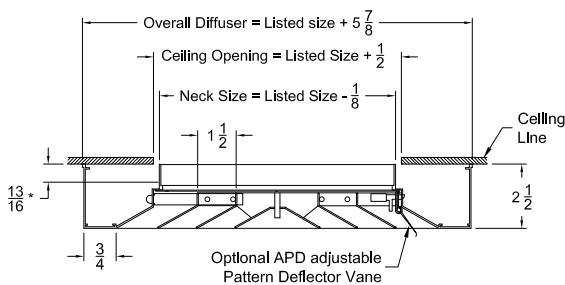
Model: 5000-1 (Flush Surface Mount)



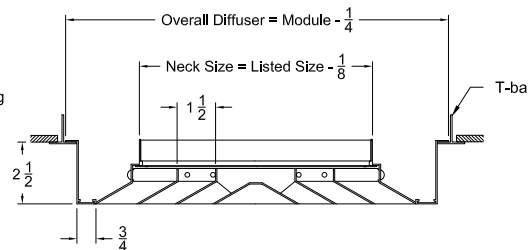
Model: 5000-2 (V-Beveled Drop Surface)



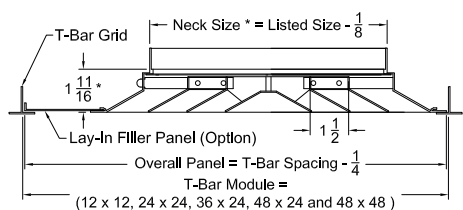
Model: 5000-4 (Deep Drop Surface Mounting)



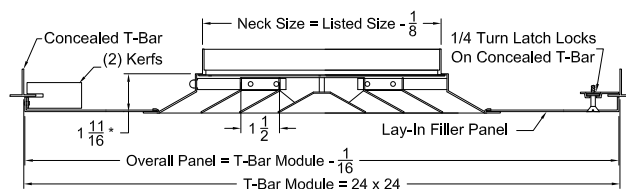
Model: 5000-46 (Lay in T-Bar Deep Drop Surface Mounting)



Model: 5000-6 (Lay in T-Bar)

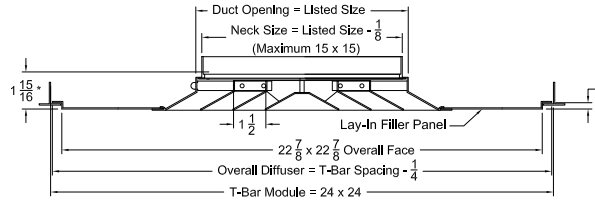


Model: 5000-7 (Concealed Spline)

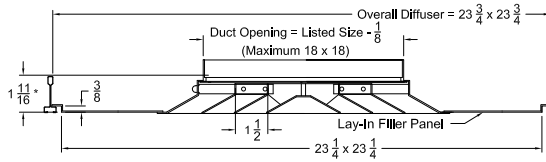


* Filler panel included for neck sizes under 18X18 to fit in 24X24 T-bar grid (6X6, 9X9, 12X12 and 15X15 include filler panel).

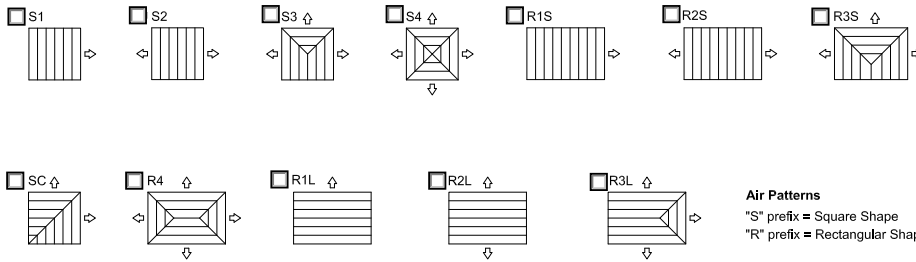
□ Model: 5000-8 (Tegular T-Bar)



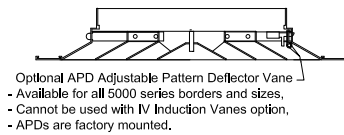
□ Model: 5000-9 (Donn Fneline)



* Dimension Indicates the distance needed for Clearance from the bottom of the duct to the ceiling line and must be maintained for proper fit.

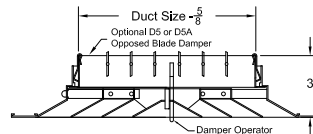


Option: APD Air Pattern Deflector

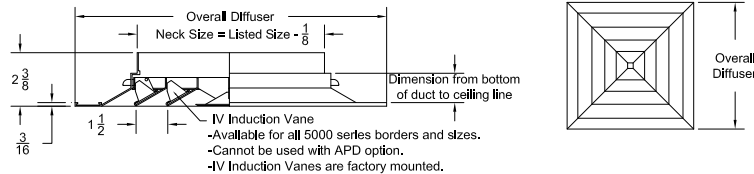


Optional APD Adjustable Pattern Deflector Vane
 - Available for all 5000 series borders and sizes.
 - Cannot be used with IV Induction Vanes option.
 - APDs are factory mounted.

Option: □ D5 Steel Opposed Blade Damper.
 □ D5A Aluminum Opposed Blade Damper.



Option: IV Induction Vanes



IV Induction Vane
 - Available for all 5000 series borders and sizes.
 - Cannot be used with APD option.
 - IV Induction Vanes are factory mounted.

Frame Style IV	Overall Diffuser Size	Ceiling Opening Dimensions	Bottom of Duct to Ceiling Line
-1	Neck Size + 5 1/4	Neck Size + 3 1/4	1 1/2
-2	Neck Size + 4 5/8	Neck Size + 1/2	1 3/16
-6	T-Bar Spacing - 1/4	T-Bar Module Size	1 11/16
-7	T-Bar Spacing - 1/16	T-Bar Module Size	1 11/16
-8	T-Bar Spacing 1/4	T-Bar Module Size	1 15/16
-9	T-Bar Grid Size 1/4	Ceiling Grid Size	1 1/16

SERIES 5000 SPECIFICATIONS

Air Diffusers shall be model:

- 5000-1 Surface Mount
- 5000-2 V Beveled Drop Face
- 5000-4 Drop Face
- 5000-46 Drop Face – T-Bar Lay-in
- 5000-6 T-bar Lay-in
- 5000-7 Concealed Spline
- 5000-8 Tegular Lay-in
- 5000-9 Donn Finline

- Air Diffusers shall be aluminum model 5000 manufactured by METALAIRE. Units shall consist of a fixed pattern louvered core fastened into a border with spring loaded latches. Core shall be removable without the use of tools. Diffusers shall be engineered for high capacity applications and include straight deflector blades (without a horizontal lip). Units with a horizontal lip at the ends of the deflector blades are not acceptable. The units shall be the size and quantity as outlined in the plans and specifications.
- Diffusers shall be available in 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns.
- Units shall be designed to integrate into the specified ceiling system.

Options

ADJUSTABLE PATTERN (HORIZONTAL TO VERTICAL)

- Diffusers shall include adjustable air pattern deflector blades that allow the air pattern to be set from vertical to horizontal (Optional APD Air Pattern Deflectors). Air pattern deflector blades shall be accessible from the face of the diffuser and adjustable without the use of tools.

IV INDUCTION VANES

- Units shall include IV induction vanes factory mounted onto the back side of the deflector vanes. IV vanes shall increase the induction rate of the diffuser.

Accessories

OPTIONAL DAMPERS

- Aluminum D5A or Steel D5 opposed blade dampers shall be provided. Damper shall be adjusted using a handle accessible through the face of the diffuser.
- Screwdriver slot operators are not allowed

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70-2006.

Paint Specification

Process shall be anodic electro-deposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and de-ionized water rinse.

5000 MODEL NUMBER SPECIFICATION LOUVERED FACE CEILING DIFFUSER

Model		Neck														
		6	9	12	15	18	21	24	27	30	33	36	36	42	45	48
5000-1	Surface Mount - Extruded Aluminum	X														
5000-2	Beveled Drop Surface Mount - Extruded Aluminum	X	X													
5000-4	5000-4 Drop Face Surface Mount - Extruded Aluminum	X	X	X												
		X	X	X	X											
		X	X	X	X	X										
		X	X	X	X	X	X									
		X	X	X	X	X	X	X								
		X	X	X	X	X	X	X	X							
		X	X	X	X	X	X	X	X	X						
		X	X	X	X	X	X	X	X	X	X					
		X	X	X	X	X	X	X	X	X	X	X				
		X	X	X	X	X	X	X	X	X	X	X	X			
		X	X	X	X	X	X	X	X	X	X	X	X	X		
		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Air Pattern		Available Accessories		Available Finishes	
Standard		D5	Steel Opposed Blade Damper	Standard	
S4	Sq 4-Way	D5A	Aluminum Opposed Blade Damper	01	White
Optional		L9	Square / Rectangular Equalizing Grid	Optional	
S1	Sq 1-Way	TR	Square to Round Transition	02	Satin Silver
S2	Sq 2-Way	TR Deep (Used with Damper)	Deep Square to Round Transition	03	Black
S3	Sq 3-Way	G3	Round Equalizing Grid	24	Mill
SC	Sq 2-Way corner	BDS	Butterfly Damper	28	Custom Color
R1S	Rct 1-Way short	RSD	Radial Shutter Damper		
R1L	Rct 1-Way long				
R2S	Rct 2-Way short	Available Options			
R2L	Rct 2-Way long	IV	Induction Vanes		
R3S	Rct 3-Way short	APD	Air Pattern Deflectors		
R3L	Rct 3-Way long	FSM	Facescrew Mount - 1 only		
R4	Rct 4-Way				

5000 MODEL NUMBER SPECIFICATION LOUVERED FACE CEILING DIFFUSER

CEILING
DIFFUSERS

LOUVERED FACE DIFFUSERS

5000

Model	Panel	Neck														
		6	9	12	15	18	21	24	27	30	33	36	39	42	45	
5000-6 T-bar Lay-in - Extruded Aluminum	12 x 12	6	X													
		9		X												
5000-6 5000-7 5000-8 5000-9 T-bar Lay-in - Extruded Aluminum Concealed Spline - Extruded Aluminum Tegular T-bar - Extruded Aluminum Donn Finline - Extruded Aluminum	24 x 24	6	X													
		9	X	X												
		12	X	X	X											
		15	X	X	X	X										
		18					X									
		21						X								
5000-6 T-bar Lay-in - Extruded Aluminum	36 x 24	6	X													
		9	X	X												
		12	X	X	X											
		15	X	X	X	X										
		18	X	X	X	X	X									
		21	X	X	X	X	X									
		24	X	X	X	X	X									
		27	X	X	X	X	X									
		30						X								
		33						X								
5000-6 T-bar Lay-in - Extruded Aluminum	48 x 24	6	X													
		9	X	X												
		12	X	X	X											
		15	X	X	X	X										
		18	X	X	X	X	X									
		21	X	X	X	X	X									
		24	X	X	X	X	X									
		27	X	X	X	X	X									
		30	X	X	X	X	X									
		33	X	X	X	X	X									
		36	X	X	X	X	X									
		39	X	X	X	X	X									
				42						X						
		45							X							
5000-6 T-bar Lay-in - Extruded Aluminum	48 x 48	6	X													
		9	X	X												
		12	X	X	X											
		15	X	X	X	X										
		18	X	X	X	X	X									
		21	X	X	X	X	X	X								
		24	X	X	X	X	X	X	X							
		27	X	X	X	X	X	X	X	X						
		30	X	X	X	X	X	X	X	X	X					
		33	X	X	X	X	X	X	X	X	X	X				
		36	X	X	X	X	X	X	X	X	X	X	X			
		39	X	X	X	X	X	X	X	X	X	X	X	X		
				42											X	
				45												X

5000 MODEL NUMBER SPECIFICATION LOUVERED FACE CEILING DIFFUSER

Air Pattern		Available Accessories		Available Finishes	
Standard		D5	Steel Opposed Blade Damper	Standard	
S4	Sq 4-Way	D5A	Aluminum Opposed Blade Damper	01	White
Optional		L9	Square / Rectangular Equalizing Grid	Optional	
S1	Sq 1-Way	TR	Square to Round Transition	02	Satin Silver
S2	Sq 2-Way	TR Deep (Used with Damper)	Deep Square to Round Transition	03	Black
S3	Sq 3-Way	G3	Round Equalizing Grid	24	Mill
SC	Sq 2-Way corner	BDS	Butterfly Damper	28	Custom Color
R1S	Rct 1-Way short	RSD	Radial Shutter Damper		
R1L	Rct 1-Way long				
R2S	Rct 2-Way short	Available Options			
R2L	Rct 2-Way long	IV	Induction Vanes		
R3S	Rct 3-Way short	APD	Air Pattern Deflectors		
R3L	Rct 3-Way long				
R4	Rct 4-Way				

SERIES 5000 PERFORMANCE DATA/4-WAY SQUARE PATTERN (S4) MODEL 5000

CEILING
DIFFUSERS

LOUVERED FACE DIFFUSERS

5000

Neck Size		Neck Velocity					
		200	300	400	500	600	700
		Ps	0.006	0.013	0.022	0.035	0.05
	Pt	0.008	0.018	0.032	0.05	0.072	0.099
6 x 6	Total CFM	50	75	100	125	150	175
	CFM/Side	13	19	25	31	38	44
	Throw	2-4	4-8	7-11	9-13	11-16	13-17
	NC	-	-	-	-	20	25
9 x 9	Total CFM	113	169	225	281	335	394
	CFM/Side	28	42	56	70	84	98
	Throw	3-5	5-9	8-12	10-15	12-17	14-18
	NC	-	-	-	21	26	31
12 x 12	Total CFM	200	300	400	500	600	700
	CFM/Side	50	75	100	125	150	175
	Throw	3-7	6-10	9-14	11-16	13-18	15-20
	NC	-	-	-	24	29	34
15 x 15	Total CFM	313	469	625	781	938	1094
	CFM/Side	78	117	156	195	234	273
	Throw	4-8	7-12	10-15	12-18	15-20	17-22
	NC	-	-	21	26	31	36
18 x 18	Total CFM	450	675	900	1125	1350	1575
	CFM/Side	113	169	225	281	338	394
	Throw	5-10	8-14	11-17	14-20	16-22	18-23
	NC	-	-	22	27	32	37
21 x 21	Total CFM	613	919	1225	1531	1837	2144
	CFM/Side	153	230	306	383	459	536
	Throw	6-12	9-16	12-19	15-21	17-23	19-25
	NC	-	-	23	28	33	38
24 x 24	Total CFM	800	1200	1600	2000	2400	2800
	CFM/Side	200	300	400	500	600	700
	Throw	7-14	10-17	12-20	16-23	18-25	21-27
	NC	-	-	24	29	34	39
27 x 27	Total CFM	1013	1519	2025	2531	3037	3544
	CFM/Side	253	380	506	633	759	886
	Throw	7-15	11-19	14-22	17-25	20-27	22-28
	NC	-	20	25	30	35	4
33 x 33	Total CFM	1513	2269	3025	3781	4537	5294
	CFM/Side	378	567	756	945	1134	1323
	Throw	9-18	13-22	16-25	19-27	22-30	24-31
	NC	-	21	26	31	36	41

SERIES 5000 PERFORMANCE DATA/4-WAY RECTANGULAR PATTERN (R4) MODEL 5000

Neck Size	Side Designation	Neck Velocity																	
		200		300		400		500		600		700							
		Ps		.013		.022		.035		.050		.068							
		Pt		.018		.032		.050		.072		.099							
		A	B	A	B	A	B	A	B	A	B	A	B	A	B				
6 x 9	Total CFM		75			113			150			185			225			263	
	CFM/Side	13		25	19		38	25		50	31		63	38		75	43		86
	Throw	2-4		2-5	4-8		5-9	7-11		8-12	9-13		10-14	11-16		12-17	13-17		14-18
	NC		-			-			-			-			-			-	
6 x 12	Total CFM		100			150			200			250			300			350	
	CFM/Side	13		38	19		56	25		75	31		94	38		113	44		131
	Throw	2-4		3-6	4-8		6-10	7-11		8-13	9-13		11-15	11-16		13-17	13-17		15-19
	NC		-			-			-			20			25			30	
9 x 12	Total CFM		150			225			300			375			450			525	
	CFM/Side	28		47	42		70	56		94	70		117	84		141	98		164
	Throw	3-5		3-7	5-9		6-10	8-12		9-13	10-15		11-16	12-17		13-18	14-18		15-20
	NC		-			-			-			22			27			32	
9 x 15	Total CFM		188			281			375			469			563			656	
	CFM/Side	28		66	42		98	56		131	70		164	84		197	98		230
	Throw	3-5		4-8	5-9		7-11	8-12		9-14	10-15		12-17	12-17		14-19	14-18		16-21
	NC		-			-			-			23			28			33	
9 x 18	Total CFM		225			338			450			563			675			788	
	CFM/Side	28		84	42		127	56		169	70		211	84		253	98		295
	Throw	3-5		4-9	5-9		7-12	8-12		10-16	10-15		13-18	12-17		15-20	14-18		17-22
	NC		-			-			-			24			29			34	
9 x 21	Total CFM		263			394			525			656			788			919	
	CFM/Side	28		103	42		155	56		206	70		258	84		309	98		361
	Throw	3-5		5-10	5-9		8-13	8-12		11-17	10-15		13-19	12-17		16-21	14-18		18-23
	NC		-			-			20			25			30			35	
12 x 15	Total CFM		250			375			500			625			750			875	
	CFM/Side	50		75	75		113	100		150	125		188	150		225	175		263
	Throw	3-7		4-8	6-10		7-12	9-14		10-15	11-16		12-18	13-18		14-20	15-20		16-21
	NC		-			-			20			25			30			35	
12 x 18	Total CFM		300			450			600			750			900			1050	
	CFM/Side	50		100	75		150	100		200	125		250	150		300	175		350
	Throw	3-7		5-10	6-10		8-13	9-14		11-16	11-16		13-19	13-18		15-21	15-20		17-23
	NC		-			-			20			25			30			35	
12 x 21	Total CFM		350			525			700			875			1050			1225	
	CFM/Side	50		125	75		188	100		250	125		313	150		375	175		438
	Throw	3-7		5-11	6-10		8-14	9-14		11-18	11-16		14-20	13-18		16-22	15-20		18-24
	NC		-			-			21			26			31			36	

SERIES 5000 PERFORMANCE DATA/4-WAY RECTANGULAR PATTERN (R4) MODEL 5000

CEILING
DIFFUSERS

LOUVERED FACE DIFFUSERS

5000

Neck Size	Side Designation	Neck Velocity																	
		200		300		400		500		600		700							
		Ps	Pt	A	B	A	B	A	B	A	B	A	B						
12 x 24	Total CFM		400			600			800			1000			1200			1400	
	CFM/Side	50		150	75		225	100		300	125		375	150		450	175		525
	Throw	3-7		6-12	6-10		9-15	9-14		12-19	11-16		15-21	13-18		17-23	15-20		1-25
	NC		-			-			22			27			32			37	
15 x 18	Total CFM		375			563			750			938			1125			1313	
	CFM/Side	78		109	117		164	156		219	195		273	234		328	273		383
	Throw	4-8		5-10	7-12		8-14	10-15		11-17	12-18		14-19	15-20		16-22	17-22		18-23
	NC		-			-			21			26			31			36	
15 x 24	Total CFM		500			750			1000			1250			1500			1750	
	CFM/Side	78		172	117		258	156		344	195		430	234		516	273		602
	Throw	4-8		6-13	7-12		9-16	10-15		13-19	12-18		15-22	15-20		18-24	17-22		20-26
	NC		-			-			22			27			32			37	
18 x 24	Total CFM		600			900			1200			1500			1800			2100	
	CFM/Side	113		188	160		281	225		375	281		469	338		563	394		656
	Throw	5-10		6-13	8-14		10-17	11-17		13-20	14-20		16-23	16-22		18-25	18-23		20-26
	NC		-			-			23			28			33			38	
21 x 33	Total CFM		963			1444			1925			2406			2888			3369	
	CFM/Side	153		328	230		492	306		656	383		820	459		984	536		1148
	Throw	6-12		8-17	9-16		12-21	12-19		15-24	15-21		18-26	17-23		21-29	19-25		23-30
	NC		-			20			25			30			35			40	
24 x 30	Total CFM		1000			1500			2000			2500			3000			3500	
	CFM/Side	200		300	300		1500	400		600	500		750	600		900	700		1050
	Throw	7-14		8-16	10-17		12-20	13-20		15-23	16-23		18-26	18-25		21-28	21-27		23-30
	NC		-			20			25			30			35			40	

SERIES 5000 PERFORMANCE DATA/3-WAY SQUARE PATTERN (S3) MODEL 5000

Neck Size		Neck Velocity					
		200	300	400	500	600	700
		Ps	0.006	0.013	0.022	0.035	0.05
	Pt	0.008	0.018	0.032	0.05	0.072	0.099
6 x 6	Total CFM	50	75	100	125	150	175
	CFM/Side	13	19	25	31	38	44
	Throw	2-4	4-8	7-11	9-13	11-16	13-17
	NC	-	-	-	-	20	25
9 x 9	Total CFM	113	169	225	281	335	394
	CFM/Side	28	42	56	70	84	98
	Throw	3-5	5-9	8-12	10-15	12-17	14-18
	NC	-	-	-	21	26	31
12 x 12	Total CFM	200	300	400	500	600	700
	CFM/Side	50	75	100	125	150	175
	Throw	3-7	6-10	9-14	11-16	13-18	15-20
	NC	-	-	-	24	29	34
15 x 15	Total CFM	313	469	625	781	938	1094
	CFM/Side	78	117	156	195	234	273
	Throw	4-8	7-12	10-15	12-18	15-20	17-22
	NC	-	-	21	26	31	36
18 x 18	Total CFM	450	675	900	1125	1350	1575
	CFM/Side	113	169	225	281	338	394
	Throw	5-10	8-14	11-17	14-20	16-22	18-23
	NC	-	-	22	27	32	37
21 x 21	Total CFM	613	919	1225	1531	1837	2144
	CFM/Side	153	230	306	383	459	536
	Throw	6-12	9-16	12-19	15-21	17-23	19-25
	NC	-	-	23	28	33	38
24 x 24	Total CFM	800	1200	1600	2000	2400	2800
	CFM/Side	200	300	400	500	600	700
	Throw	7-14	10-17	12-20	16-23	18-25	21-27
	NC	-	-	24	29	34	39
27 x 27	Total CFM	1013	1519	2025	2531	3037	3544
	CFM/Side	253	380	506	633	759	886
	Throw	7-15	11-19	14-22	17-25	20-27	22-28
	NC	-	20	25	30	35	4

SERIES 5000 PERFORMANCE DATA/3-WAY RECTANGULAR PATTERN (R3S) MODEL 5000

CEILING
DIFFUSERS

LOUVERED FACE DIFFUSERS

5000

Neck Size	Side Designation	Neck Velocity																	
		200		300		400		500		600		700							
		Ps		.013		.022		.035		.050		.068							
		Pt		.018		.032		.050		.072		.099							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B					
6 x 9	Total CFM		75			113			150			188			225			263	
	CFM/Side	28		23	42		35	56		47	70		59	84		70	98		82
	Throw	3-6		3-6	7-12		7-11	11-18		11-17	16-23		16-23	21-29		20-28	24-32		24-34
	NC	-		-			-			-			21		26			31	
6 x 12	Total CFM		100			150			200			250			300			350	
	CFM/Side	50		25	75		38	100		50	125		63	150		75	175		88
	Throw	5-9		3-6	8-15		7-12	13-20		11-17	18-26		16-23	22-31		20-28	26-37		24-34
	NC	-		-			-			-			23		28			33	
9 x 12	Total CFM		150			225			300			375			450			525	
	CFM/Side	50		50	75		75	100		100	125		125	150		150	175		175
	Throw	5-9		5-9	8-15		8-15	13-20		13-20	18-26		18-26	22-31		22-31	26-37		26-37
	NC	-		-			-		20			25		30				35	
9 x 15	Total CFM		188			281			375			469			563			656	
	CFM/Side	78		55	117		82	156		109	195		137	234		164	273		191
	Throw	4-8		3-7	7-12		6-11	10-15		9-14	12-18		11-16	15-20		14-19	17-22		15-20
	NC	20		20			20		20			23		28				33	
12 x 15	Total CFM		250			375			500			625			750			875	
	CFM/Side	78		86	117		129	156		172	195		215	234		258	273		301
	Throw	4-8		4-9	7-12		7-12	10-15		10-16	12-18		13-18	15-20		15-20	17-22		17-22
	NC	20		20			20		20			25		30				35	
12 x 18	Total CFM		300			450			600			750			900			1050	
	CFM/Side	113		94	169		141	225		188	281		234	338		281	394		328
	Throw	5-10		4-9	8-14		7-13	11-17		10-16	14-20		13-19	16-22		15-21	18-23		17-22
	NC	20		20			20		20			25		30				35	
15 x 18	Total CFM		375			563			750			938			1125			1313	
	CFM/Side	113		131	169		197	225		263	281		238	338		394	394		459
	Throw	5-10		5-11	8-14		8-15	11-17		12-18	14-20		14-20	16-22		17-23	18-23		19-24
	NC	20		20			21		21			26		31				36	
15 x 21	Total CFM		438			656			875			1094			1313			1531	
	CFM/Side	153		142	230		213	306		284	383		355	459		427	536		498
	Throw	6-12		5-11	9-16		9-15	12-19		12-18	15-21		15-21	17-23		17-23	19-25		19-25
	NC	20		20			22		22			27		32				37	
18 x 24	Total CFM		600			900			1200			1500			1800			2100	
	CFM/Side	200		200	300		300	400		400	500		500	600		600	700		700
	Throw	7-14		7-14	10-17		10-17	13-20		13-20	16-23		16-23	18-25		18-25	21-27		21-27
	NC	20		20			23		23			28		33				38	
21 x 27	Total CFM		788			1181			1575			1969			2362			2756	
	CFM/Side	253		267	380		401	506		534	633		668	759		802	886		935
	Throw	7-15		7-15	11-19		11-19	14-22		15-22	17-25		17-25	20-27		20-27	22-28		22-29
	NC	20		20			24		24			29		34				39	
24 x 30	Total CFM		1000			1500			2000			2500			3000			3500	
	CFM/Side	313		344	469		516	625		688	781		859	938		1031	1094		1203
	Throw	8-17		8-17	12-20		12-11	15-23		16-24	18-26		19-27	21-28		21-29	23-30		23-31
	NC	20		20			25		25			30		35				40	

SERIES 5000 PERFORMANCE DATA/3-WAY RECTANGULAR PATTERN (R3L) MODEL 5000

Neck Size	Side Designation	Neck Velocity															
		200		300		400		500		600		700					
		Ps		.013		.022		.035		.050		.068					
		Pt		.018		.032		.050		.072		.099					
		A	B	A	B	A	B	A	B	A	B	A	B	A	B		
6 x 9	Total CFM		75		113		150		185		225		263				
	CFM/Side	13		25	19	38	25	50	31	63	38	75	43	86			
	Throw	2-4		2-5	4-8	5-9	7-11	8-12	9-13	10-14	11-16	12-17	13-17	14-18			
	NC		-		-		-		-		-		-		-		
6 x 12	Total CFM		100		150		200		250		300		350				
	CFM/Side	13		38	19	56	25	75	31	94	38	113	44	131			
	Throw	2-4		3-6	4-8	6-10	7-11	8-13	9-13	11-15	11-16	13-17	13-17	15-19			
	NC		-		-		-		20		25		30				
9 x 12	Total CFM		150		225		300		375		450		525				
	CFM/Side	28		47	42	70	56	94	70	117	84	141	98	164			
	Throw	3-5		3-7	5-9	6-10	8-12	9-13	10-15	11-16	12-17	13-18	14-18	15-20			
	NC		-		-		-		22		27		32				
9 x 15	Total CFM		188		281		375		469		563		656				
	CFM/Side	28		66	42	98	56	131	70	164	84	197	98	230			
	Throw	3-5		4-8	5-9	7-11	8-12	9-14	10-15	12-17	12-17	14-19	14-18	16-21			
	NC		-		-		-		23		28		33				
9 x 18	Total CFM		225		338		450		563		675		788				
	CFM/Side	28		84	42	127	56	169	70	211	84	253	98	295			
	Throw	3-5		4-9	5-9	7-12	8-12	10-16	10-15	13-18	12-17	15-20	14-18	17-22			
	NC				-		-		24		29		34				
9 x 21	Total CFM		263		394		525		656		788		919				
	CFM/Side	28		103	42	155	56	206	70	258	84	309	98	361			
	Throw	3-5		5-10	5-9	8-13	8-12	11-17	10-15	13-19	12-17	16-21	14-18	18-23			
	NC		-		-		20		25		30		35				
12 x 15	Total CFM		250		375		500		625		750		875				
	CFM/Side	50		75	75	113	100	150	125	188	150	225	175	263			
	Throw	3-7		4-8	6-10	7-12	9-14	10-15	11-16	12-18	13-18	14-20	15-20	16-21			
	NC		-		-		20		25		30		35				

SERIES 5000 PERFORMANCE DATA/3-WAY RECTANGULAR PATTERN (R3L) MODEL 5000

CEILING
DIFFUSERS

LOUVERED FACE DIFFUSERS

5000

Neck Size	Side Designation	Neck Velocity													
		200		300		400		500		600		700			
		Ps		.013		.022		.035		.050		.068			
		Pt		.018		.032		.050		.072		.099			
		A	B	A	B	A	B	A	B	A	B	A	B		
12 x 18	Total CFM		300		450		600		750		900		1050		
	CFM/Side	50		100	75	150	100	200	125	250	150	300	175	350	
	Throw	3-7		5-10	6-10	8-13	9-14	11-16	11-16	13-19	13-18	15-21	15-20	17-23	
	NC		-		-		20		25		30		35		
12 x 21	Total CFM		375		563		750		938		1125		1313		
	CFM/Side	148		78	223	117	297	156	371	195	445	234	520	273	
	Throw	6-12		4-8	9-15	7-12	12-19	10-15	15-21	12-18	17-23	15-20	19-25	17-22	
	NC		20		20		21		26		31		36		
12 x 24	Total CFM		438		656		875		1094		1313		1531		
	CFM/Side	180		78	270	117	359	156	449	195	539	234	629	273	
	Throw	6-13		4-8	10-17	7-12	13-20	10-15	16-22	12-18	18-27	16-22	20-26	17-22	
	NC		20		20		22		27		32		37		
15 x 18	Total CFM		525		788		1050		1313		1575		1837		
	CFM/Side	206		113	309	169	413	225	516	281	619	338	722	394	
	Throw	7-14		5-10	10-17	8-14	13-21	11-17	16-23	14-20	19-25	16-22	21-27	18-23	
	NC		20		20		23		28		33		38		
15 x 24	Total CFM		600		900		1200		1500		1800		2100		
	CFM/Side	244		113	366	169	488	225	609	281	731	338	853	394	
	Throw	7-15		5-10	11-19	8-14	14-22	11-17	17-24	14-20	19-26	17-23	22-28	18-23	
	NC		20		20		23		28		33		38		
18 x 24	Total CFM		788		1181		1575		1969		2362		2756		
	CFM/Side	317		153	476	230	634	306	793	383	952	459	1110	536	
	Throw	8-17		6-12	12-20	9-16	15-24	12-19	18-26	15-21	21-28	18-23	23-30	19-25	
	NC		20		20		24		29		34		39		

SERIES 5000 PERFORMANCE DATA/2-WAY SQUARE PATTERN (S2 - SC) MODEL 5000

Neck Size		Neck Velocity					
		200	300	400	500	600	700
		Ps	0.006	0.013	0.022	0.035	0.05
	Pt	0.008	0.018	0.032	0.05	0.072	0.099
6 x 6	Total CFM	50	75	100	125	150	175
	CFM/Side	25	38	50	63	75	88
	Throw	2-5	5-9	8-12	10-14	12-17	14-18
	NC	20	20	20	20	20	25
9 x 9	Total CFM	113	169	225	281	338	394
	CFM/Side	56	84	113	141	169	197
	Throw	3-7	6-11	9-14	12-17	14-19	16-20
	NC	20	20	20	21	26	31
12 x 12	Total CFM	200	300	400	500	600	700
	CFM/Side	100	150	200	250	300	350
	Throw	5-10	8-13	11-16	13-19	15-21	17-23
	NC	20	20	20	24	29	34
15 x 15	Total CFM	313	469	625	781	938	1094
	CFM/Side	156	234	313	391	469	547
	Throw	6-12	9-16	12-19	15-21	17-24	19-25
	NC	20	20	21	26	31	36
18 x 18	Total CFM	450	675	900	1125	1350	1575
	CFM/Side	225	338	450	563	675	788
	Throw	7-14	10-18	14-21	17-24	19-26	21-28
	NC	20	20	22	27	32	37
21 x 21	Total CFM	613	919	1225	1531	1837	2144
	CFM/Side	306	459	613	766	979	1072
	Throw	8-17	12-20	15-23	18-26	21-28	23-30
	NC	20	20	23	28	33	38
24 x 24	Total CFM	800	1200	1600	2000	2400	2800
	CFM/Side	400	600	800	1000	1200	1400
	Throw	9-18	13-22	16-25	19-28	22-30	24-30
	NC	20	20	24	29	34	39
27 x 27	Total CFM	1013	1519	2025	2531	3037	3544
	CFM/Side	506	759	1013	1266	1519	1772
	Throw	10-20	14-24	17-27	21-29	23-32	25-33
	NC	20	20	25	30	35	40

SERIES 5000 PERFORMANCE DATA/1-WAY SQUARE PATTERN (S1) MODEL 5000

CEILING
DIFFUSERS

LOUVERED FACE DIFFUSERS

5000

Neck Size		Neck Velocity					
		200	300	400	500	600	700
		Ps	0.006	0.013	0.022	0.035	0.05
	Pt	0.008	0.018	0.032	0.05	0.072	0.099
6 x 6	Total CFM	50	75	100	125	150	175
	Throw	3-7	6-10	9-14	11-16	13-18	15-20
	NC	20	20	20	20	20	25
9 x 9	Total CFM	113	169	225	281	338	394
	Throw	5-10	8-14	11-17	14-20	16-22	18-23
	NC	20	20	20	21	26	31
12 x 12	Total CFM	200	300	400	500	600	700
	Throw	7-14	10-17	13-20	16-23	18-25	21-27
	NC	20	20	20	24	29	34
15 x 15	Total CFM	313	469	625	781	938	1094
	Throw	8-17	12-20	15-23	18-26	21-28	23-30
	NC	20	20	21	26	31	36
18 x 18	Total CFM	450	675	900	1125	1350	1575
	Throw	9-19	13-23	17-26	20-29	23-31	25-32
	NC	20	20	22	27	32	37
21 x 21	Total CFM	615	919	1225	1531	1837	2144
	Throw	10-21	14-25	18-28	21-31	24-33	26-35
	NC	20	20	23	28	33	38
24 x 24	Total CFM	800	1200	1600	2000	2400	2800
	Throw	11-23	15-27	19-30	23-32	25-34	28-36
	NC	20	20	24	29	34	39
27 x 27	Total CFM	1013	1519	2025	2531	3037	3544
	Throw	12-24	16-28	20-31	23-34	26-36	29-38
	NC	20	20	25	30	35	40

SERIES 5000 PERFORMANCE DATA/ 2-WAY RECTANGULAR PATTERN (R2L - R2S)

MODEL 5000

Neck Size		Neck Velocity					
		200	300	400	500	600	700
		Ps	0.006	0.013	0.022	0.035	0.05
	Pt	0.008	0.018	0.032	0.05	0.072	0.099
6 x 9	Total CFM	75	113	150	188	225	263
	CFM/Side	38	56	75	94	113	131
	Throw	3-6	6-10	8-13	11-15	13-17	15-19
	NC	20	20	20	20	23	28
6 x 12	Total CFM	100	150	200	250	300	350
	CFM/Side	50	75	100	125	150	175
	Throw	3-7	6-10	9-14	11-16	13-18	15-20
	NC	20	20	20	20	25	30
6 x 15	Total CFM	125	188	250	313	375	438
	CFM/Side	63	94	125	156	188	219
	Throw	4-7	6-11	9-14	12-17	14-19	16-21
	NC	20	20	20	21	26	31
6 x 18	Total CFM	150	225	300	375	450	525
	CFM/Side	75	113	150	188	225	263
	Throw	4-8	7-12	10-15	12-18	14-20	16-21
	NC	20	20	20	22	27	32
9 x 15	Total CFM	188	281	375	469	563	656
	CFM/Side	94	141	188	234	281	328
	Throw	4-9	7-13	10-16	13-19	15-21	17-22
	NC	20	20	20	23	28	33
9 x 18	Total CFM	225	338	450	563	675	788
	CFM/Side	113	169	225	281	338	394
	Throw	5-10	8-14	11-17	14-20	16-22	18-23
	NC	20	20	20	24	29	34
9 x 21	Total CFM	263	394	525	656	788	919
	CFM/Side	131	197	263	328	394	459
	Throw	5-11	8-15	12-18	14-20	17-23	19-24
	NC	20	20	20	25	30	35
12 x 15	Total CFM	250	375	500	625	750	875
	CFM/Side	125	188	250	313	375	438
	Throw	5-11	8-14	11-18	14-20	16-22	18-24
	NC	20	20	20	25	30	35

SERIES 5000 PERFORMANCE DATA/ 2-WAY RECTANGULAR PATTERN (R2L - R2S)

MODEL 5000

CEILING
DIFFUSERS

LOUVERED FACE DIFFUSERS

5000

Neck Size		Neck Velocity					
		200	300	400	500	600	700
		Ps	0.006	0.013	0.022	0.035	0.05
	Pt	0.008	0.018	0.032	0.05	0.072	0.099
12 x 18	Total CFM	300	450	600	750	900	1050
	CFM/Side	150	225	300	375	450	525
	Throw	6-12	9-15	12-19	15-21	17-23	19-25
	NC	20	20	20	25	30	35
12 x 21	Total CFM	350	525	700	875	1050	1225
	CFM/Side	175	263	350	438	525	613
	Throw	6-13	9-16	13-20	15-22	18-24	20-26
	NC	20	20	21	26	31	36
15 x 21	Total CFM	438	656	875	1094	1313	1531
	CFM/Side	219	328	438	547	656	766
	Throw	7-14	10-18	14-21	16-24	19-26	21-27
	NC	20	20	22	27	32	37
15 x 24	Total CFM	500	750	1000	1250	1500	1750
	CFM/Side	250	375	500	625	750	875
	Throw	7-15	11-19	14-22	17-25	20-27	22-28
	NC	20	20	22	27	32	37
18 x 21	Total CFM	525	788	1050	1313	1575	1837
	CFM/Side	263	394	525	656	788	919
	Throw	7-15	11-19	14-22	17-25	20-27	22-29
	NC	20	20	23	28	33	38
18 x 24	Total CFM	600	900	1200	1500	1800	2100
	CFM/Side	300	450	600	750	900	1050
	Throw	8-16	12-20	15-23	18-26	21-28	23-30
	NC	20	20	23	28	33	38
21 x 27	Total CFM	788	1181	1575	1969	2362	2756
	CFM/Side	394	591	788	984	1181	1378
	Throw	9-18	13-22	16-25	19-28	22-30	24-32
	NC	20	20	24	20	34	39

SERIES 5000 PERFORMANCE DATA/ 1-WAY RECTANGULAR PATTERN (R1L - R1S)

MODEL 5000

Neck Size		Neck Velocity					
		200	300	400	500	600	700
		Ps	0.006	0.013	0.022	0.035	0.05
	Pt	0.008	0.018	0.032	0.05	0.072	0.099
6 x 9	Total CFM	75	113	150	188	225	263
	Throw	4-8	7-12	10-15	12-18	14-20	16-21
	NC	20	20	20	20	23	28
6 x 12	Total CFM	100	150	200	250	300	350
	Throw	5-10	8-13	11-16	13-19	15-21	17-23
	NC	20	20	20	20	25	30
6 x 15	Total CFM	125	188	250	313	375	438
	Throw	5-11	8-14	11-18	14-20	16-22	18-24
	NC	20	20	20	21	26	31
6 x 18	Total CFM	150	225	300	300	450	525
	Throw	6-12	9-15	12-19	12-19	17-23	19-25
	NC	20	20	20	20	27	32
6 x 21	Total CFM	175	263	350	438	525	613
	Throw	6-13	9-16	13-20	15-22	18-24	20-26
	NC	20	20	20	23	28	33
9 x 15	Total CFM	188	281	375	469	563	656
	Throw	6-13	10-17	13-20	16-23	18-25	20-26
	NC	20	20	20	23	28	33
9 x 18	Total CFM	225	338	450	563	675	788
	Throw	7-14	10-18	14-21	17-24	19-26	21-28
	NC	20	20	20	24	29	34
12 x 15	Total CFM	250	375	500	625	750	875
	Throw	7-15	11-19	14-22	17-25	20-27	22-28
	NC	20	20	20	25	30	35
12 x 18	Total CFM	300	450	600	750	900	1050
	Throw	8-16	12-20	15-23	18-26	21-28	23-30
	NC	20	20	20	25	30	35
15 x 21	Total CFM	438	656	875	1094	1313	1531
	Throw	9-19	13-23	17-26	20-28	22-31	25-32
	NC	20	20	22	27	32	37
15 x 24	Total CFM	500	750	1000	1250	1500	1750
	Throw	10-20	14-24	17-27	20-29	23-31	25-33
	NC	20	20	22	27	32	37
18 x 21	Total CFM	525	788	1050	1313	1575	1837
	Throw	10-20	14-24	18-27	21-30	23-32	26-34
	NC	20	20	23	28	33	38
18 x 24	Total CFM	600	900	1200	1500	1800	2100
	Throw	10-21	14-25	18-28	21-31	24-33	26-34
	NC	20	20	23	28	33	38
21 x 27	Total CFM	788	1181	1575	1969	2362	2756
	Throw	11-23	15-26	19-30	23-32	25-34	28-36
	NC	20	20	24	29	34	39