



# SHEET METAL CONNECTORS, INC.

www.smduct.com

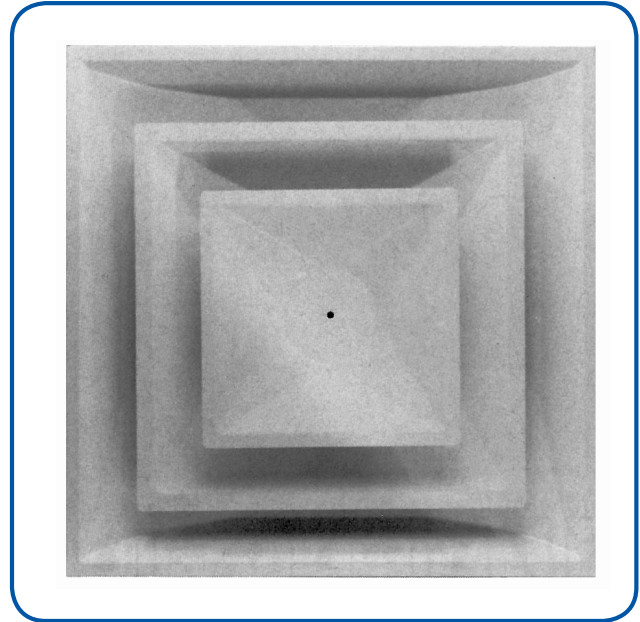
MINNEAPOLIS, MN  
 5850 Main Street N.E.  
 Minneapolis, Minnesota 55432  
 LOCALLY CALL: 763-572-0000  
 TOLL FREE: 1-800-328-1966  
 FAX: 763-572-1100

ROCKFORD, IL  
 5601 Sandy Hollow Road  
 Rockford, Illinois 61109  
 LOCALLY CALL: 815-874-4600  
 TOLL FREE: 1-866-504-4600  
 FAX: 815-874-9979



## Fixed Pattern Diffusers - 2 Cone Series

- Provides high volume of air delivery
- 360° air diffusion
- Formed steel back panel
- Removable core
- Damper adjusted through diffuser face to allow proper air balancing
- Heavy gauge steel plenum
- Accepts butterfly damper (3800 Series) inserted in collar
- Prestige white finish
- Seismic tabs
- Calculations based on neck velocity



2 Cone Series High Volume T-Bar Diffusers

UNIT SIZE	OVERALL SIZE	NECK VELOCITY	400	500	600	700	800	900	1000	1200	1400	1600	
6" An .20 Ak .78	23 3/4 x 23 3/4	Cfm	80	100	120	135	155	175	195	235	275	315	
		Ps	.008	.012	.017	.021	.028	.035	.043	.063	.086	.112	
		Nc	<20	<20	<20	<20	<20	<20	<20	20	25	30	35
		Throw	2	3	3	3.5	4	4.5	5	6	7	8	
7" An .27 Ak .85	23 3/4 x 23 3/4	Cfm	110	135	160	190	215	240	270	320	375	415	
		Ps	.009	.013	.019	.025	.033	.042	.051	.074	.101	.131	
		Nc	<20	<20	<20	<20	<20	<20	20	25	30	35	40
		Throw	3	4	4.5	5	6	7	8	9	10.5	12.5	
8" An .35 Ak 1.20	23 3/4 x 23 3/4	Cfm	140	175	210	245	280	315	350	420	490	560	
		Ps	.010	.015	.022	.029	.038	.049	.060	.086	.117	.150	
		Nc	<20	<20	<20	<20	20	25	30	35	40	45	
		Throw	3.5	4.5	5.5	6.5	7	8	9	10.5	12.5	14.5	
9" An .44 Ak 1.65	23 3/4 x 23 3/4	Cfm	180	220	265	310	350	390	440	525	610	700	
		Ps	.012	.018	.026	.035	.046	.058	.072	.104	.145	.181	
		Nc	<20	<20	<20	20	25	30	35	40	45		
		Throw	4.5	5.5	6.5	8	9.5	10.5	12	14.5	16.5	19	
10" An .54 Ak 1.65	23 3/4 x 23 3/4	Cfm	220	270	325	380	435	490	545	655	765	870	
		Ps	.014	.021	.030	.041	.054	.068	.084	.122	.167	.212	
		Nc	<20	<20	<20	20	25	30	35	40	45		
		Throw	5.5	7	8.5	10	11	12.5	14	17	19.5	22	
12" An .78 Ak 1.65	23 3/4 x 23 3/4	Cfm	315	390	470	550	630	705	785	940	1100	1255	
		Ps	.015	.023	.033	.045	.060	.072	.094	.132	.180	.230	
		Nc	<20	<20	20	25	30	35	40	45	45		
		Throw	6	7.5	9	10.5	12	13.5	15	18	21	24	
14" An 1.07 Ak 2.06	23 3/4 x 23 3/4	Cfm	430	535	640	750	855	960	1070	1285	1500	1700	
		Ps	.023	.036	.051	.071	.093	.115	.140	.205	.277	.350	
		Nc	<20	<20	20	25	30	35	40	40	45	>45	
		Throw	6.5	8	9.5	11.5	13	14.5	16	19	22.5	25	

Terminal Velocity of 75 fpm

