

PERFORMANCE DATA:

Models 4320CB, 4325CB, 4320CBA, 4325CBA, 4320CBAA, 4325CBAA • 12 x 12 Module Size

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	900	1100	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.051	.075	
6" Dia.	Total Pressure	.023	.042	.037	.039	.052	.159	.204	.307	
	Flow Rate, CFM	60	80	95	115	135	155	175	215	
	Throw	4-Way	1-2-4	2-3-6	2-4-7	3-5-7	3-5-8	4-6-9	5-6-9	6-6-11
		3-Way	2-3-6	2-4-8	3-5-11	4-6-12	5-7-13	5-8-14	6-10-15	7-11-16
		2-Way	2-4-8	3-5-11	4-6-13	5-8-15	6-9-16	7-11-18	8-12-20	9-13-22
1-Way		3-4-9	4-6-12	5-8-16	6-9-18	7-11-20	8-12-22	9-14-23	10-16-26	
Noise Criteria	—	—	—	18	23	28	32	40		
8" Dia.	Total Pressure	.025	.045	.069	.102	.137	.180	.227	.340	
	Flow Rate, CFM	105	140	175	210	245	280	315	385	
	Throw	4-Way	2-3-6	2-4-8	3-5-9	4-6-10	4-7-11	4-8-12	5-9-12	6-9-15
		3-Way	2-3-7	3-4-9	3-5-11	4-7-12	5-8-13	6-9-14	7-10-14	8-11-16
		2-Way	3-4-9	4-6-13	5-8-15	6-9-17	7-11-18	8-13-20	9-14-21	10-16-24
1-Way		3-5-11	5-7-15	6-9-18	7-11-21	8-13-22	10-15-24	11-17-25	12-19-29	
Noise Criteria	—	—	15	21	26	31	34	41		
6 x 6	Total Pressure	.025	.045	.066	.096	.132	.175	.224	.338	
	Flow Rate, CFM	75	100	125	150	175	200	225	275	
	Throw	4-Way	1-2-5	2-3-7	3-4-8	3-5-8	4-6-9	5-7-10	5-7-11	6-8-12
		3-Way	2-3-6	2-4-8	3-5-11	4-6-12	5-7-13	5-8-14	6-10-15	7-11-17
		2-Way	3-4-9	4-6-12	5-7-15	6-9-17	7-10-20	8-12-21	9-14-22	10-16-25
1-Way		3-5-10	4-7-14	6-9-18	7-10-21	8-12-23	9-14-24	10-16-26	11-18-29	
Noise Criteria	—	—	—	19	24	29	33	41		
8 x 8	Total Pressure	.027	.049	.076	.112	.151	.197	.249	.374	
	Flow Rate, CFM	135	175	220	265	310	355	400	490	
	Throw	4-Way	2-3-6	3-4-9	3-5-10	4-6-11	5-8-12	6-9-13	6-10-14	7-11-16
		3-Way	2-3-7	3-5-10	4-6-12	5-7-13	6-9-14	7-10-15	7-11-16	8-12-18
		2-Way	3-5-11	4-7-14	6-9-17	7-11-20	8-13-21	9-14-23	11-16-24	12-18-27
1-Way		4-6-12	5-8-17	7-10-21	8-12-23	9-14-25	11-17-27	12-20-28	14-23-32	
Noise Criteria	—	—	16	22	27	32	35	42		

Models 4320CB, 4325CB, 4320CBA, 4325CBA, 4320CBAA, 4325CBAA • 24 x 12 Module Size

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	900	1100	
	VP	.006	.010	.016	.023	.031	.040	.051	.075	
6" Dia.	Total Pressure	.023	.042	.037	.039	.052	.159	.204	.307	
	Flow Rate, CFM	60	80	95	115	135	155	175	215	
	Throw	4-Way	1-2-4	2-3-6	2-4-7	3-5-7	3-5-8	4-6-9	5-6-9	6-6-11
		3-Way	2-3-6	2-4-8	3-5-11	4-6-12	5-7-13	5-8-14	6-10-15	7-11-16
		2-Way	2-4-8	3-5-11	4-6-13	5-8-15	6-9-16	7-11-18	8-12-20	9-13-22
1-Way		3-4-9	4-6-12	5-8-16	6-9-18	7-11-20	8-12-22	9-14-23	10-16-26	
Noise Criteria	—	—	—	18	23	28	32	40		
8" Dia.	Total Pressure	.025	.045	.069	.102	.137	.180	.227	.340	
	Flow Rate, CFM	105	140	175	210	245	280	315	385	
	Throw	4-Way	2-3-6	2-4-8	3-5-9	4-6-10	4-7-11	4-8-12	5-9-12	6-9-15
		3-Way	2-3-7	3-4-9	3-5-11	4-7-12	5-8-13	6-9-14	7-10-14	8-11-16
		2-Way	3-4-9	4-6-13	5-8-15	6-9-17	7-11-18	8-13-20	9-14-21	10-16-24
1-Way		3-5-11	5-7-15	6-9-18	7-11-21	8-13-22	10-15-24	11-17-25	12-19-29	
Noise Criteria	—	—	15	21	26	31	34	41		
6 x 6	Total Pressure	.025	.045	.066	.096	.132	.175	.224	.338	
	Flow Rate, CFM	75	100	125	150	175	200	225	275	
	Throw	4-Way	1-2-5	2-3-7	3-4-8	3-5-8	4-6-9	5-7-10	5-7-11	6-8-12
		3-Way	2-3-6	2-4-8	3-5-11	4-6-12	5-7-13	5-8-14	6-10-15	7-11-17
		2-Way	3-4-9	4-6-12	5-7-15	6-9-17	7-10-20	8-12-21	9-14-22	10-16-25
1-Way		3-5-10	4-7-14	6-9-18	7-10-21	8-12-23	9-14-24	10-16-26	11-18-29	
Noise Criteria	—	—	—	19	24	29	33	41		
8 x 8	Total Pressure	.027	.049	.076	.112	.151	.197	.249	.374	
	Flow Rate, CFM	135	175	220	265	310	355	400	490	
	Throw	4-Way	2-3-6	3-4-9	3-5-10	4-6-11	5-8-12	6-9-13	6-10-14	7-11-16
		3-Way	2-3-7	3-5-10	4-6-12	5-7-13	6-9-14	7-10-15	7-11-16	8-12-18
		2-Way	3-5-11	4-7-14	6-9-17	7-11-20	8-13-21	9-14-23	11-16-24	12-18-27
1-Way		4-6-12	5-8-17	7-10-21	8-12-23	9-14-25	11-17-27	12-20-28	14-23-32	
Noise Criteria	—	—	16	22	27	32	35	42		

For performance notes, see page D171.

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CEILING DIFFUSERS

PERFORMANCE DATA:

Models 4320CB, 4325CB, 4320CBA, 4325CBA, 4320CBAA, 4325CBAA • 24 x 24 (600 x 600)
Module Size • Round Neck

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	900	1100	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.051	.075	
6" Dia.	Total Pressure	.014	.025	.036	.052	.071	.094	.120	.181	
	Flow Rate, CFM	60	80	95	115	135	155	175	215	
	Throw	4-Way	1-2-4	2-3-6	2-3-7	3-4-7	3-5-8	4-6-9	4-6-9	5-6-11
		3-Way	1-2-5	2-3-7	2-4-8	3-5-9	4-6-9	4-7-10	5-7-11	6-8-12
		2-Way	2-3-7	3-4-9	4-6-11	4-7-12	5-8-13	6-9-14	7-11-15	8-12-17
1-Way		2-4-8	3-5-11	4-7-13	5-8-15	6-9-16	7-11-17	8-12-18	9-14-21	
Noise Criteria	—	—	—	17	22	26	28	35		
8" Dia.	Total Pressure	.015	.027	.041	.060	.081	.106	.134	.200	
	Flow Rate, CFM	105	140	175	210	245	280	315	385	
	Throw	4-Way	2-3-6	2-4-8	3-5-9	4-6-10	4-7-11	4-8-12	5-9-12	6-9-15
		3-Way	2-3-7	3-4-9	3-5-11	4-7-12	5-8-13	6-9-14	7-10-14	8-11-16
		2-Way	3-4-9	4-6-13	5-8-15	6-9-17	7-11-18	8-13-20	9-14-21	10-16-24
1-Way		3-5-11	5-7-15	6-9-18	7-11-21	8-13-22	10-15-24	11-17-25	12-19-29	
Noise Criteria	—	—	17	21	26	30	32	37		
10" Dia.	Total Pressure	.017	.029	.045	.066	.090	.118	.149	.224	
	Flow Rate, CFM	165	215	270	325	380	435	490	600	
	Throw	4-Way	2-3-7	3-5-10	4-6-12	5-7-13	5-8-14	6-10-15	7-11-16	8-12-19
		3-Way	2-4-8	3-5-11	4-7-13	5-8-15	6-10-16	7-11-17	8-13-18	9-15-21
		2-Way	4-6-12	5-8-16	6-10-20	8-12-22	9-14-23	10-16-25	12-18-27	14-21-31
1-Way		4-7-14	6-9-18	7-11-23	9-14-26	11-16-28	12-18-29	14-22-31	16-25-35	
Noise Criteria	—	—	19	23	28	31	34	40		
12" Dia.	Total Pressure	.018	.032	.050	.072	.099	.127	.162	.394	
	Flow Rate, CFM	235	315	390	470	550	625	705	865	
	Throw	4-Way	3-4-9	4-6-12	5-7-14	6-9-15	7-10-17	8-12-18	9-13-20	10-15-22
		3-Way	3-5-10	4-7-14	5-8-16	7-10-18	8-12-20	9-14-22	10-15-23	11-17-26
		2-Way	4-7-14	6-9-20	8-12-24	9-14-26	11-17-28	13-20-30	14-23-32	16-26-36
1-Way		5-8-17	7-11-23	9-14-28	11-17-31	13-20-33	15-23-35	17-26-37	19-29-42	
Noise Criteria	—	16	21	25	29	33	36	42		
14" Dia.	Total Pressure	.019	.034	.054	.078	.107	.139	.175	.230	
	Flow Rate, CFM	320	425	535	640	750	855	960	1175	
	Throw	4-Way	3-5-10	4-7-14	5-8-16	7-10-18	8-12-21	9-14-22	10-16-23	14-19-26
		3-Way	4-6-12	5-8-16	6-10-20	8-12-22	9-14-24	10-16-25	12-18-27	14-21-31
		2-Way	5-8-17	7-11-24	9-14-28	11-17-30	13-21-33	15-24-35	17-26-37	19-29-42
1-Way		6-9-20	8-13-27	11-16-33	13-20-36	15-24-38	17-27-41	20-30-43	23-34-49	
Noise Criteria	—	17	22	26	30	34	38	45		
15" Dia.	Total Pressure	.011	.036	.056	.081	.110	.144	.180	.271	
	Flow Rate, CFM	370	490	615	740	860	985	1100	1350	
	Throw	4-Way	3-6-10	4-2-14	5-8-17	8-10-19	8-13-21	10-14-23	10-16-24	14-19-26
		3-Way	4-6-12	6-8-17	6-11-21	8-13-22	10-14-25	11-16-26	13-18-28	15-21-32
		2-Way	4-8-17	7-12-25	9-15-30	11-18-31	13-22-34	16-25-35	17-27-38	19-31-43
1-Way		6-9-20	8-14-28	12-17-34	14-21-37	16-24-39	18-27-42	17-31-43	19-35-49	
Noise Criteria	—	18	23	27	31	35	39	46		
16" Dia.	Total Pressure	.021	.038	.059	.084	.114	.149	.189	.283	
	Flow Rate, CFM	420	560	700	835	975	1115	1255	1535	
	Throw	4-Way	4-6-12	5-8-16	6-10-20	8-12-22	9-14-23	10-16-25	12-18-26	16-22-31
		3-Way	4-7-14	6-9-18	7-11-23	9-14-25	10-16-27	12-18-29	14-22-30	16-25-34
		2-Way	6-9-20	8-13-27	10-16-32	13-20-35	15-24-37	17-27-40	20-30-42	23-34-48
1-Way		7-11-23	10-15-31	12-18-37	15-23-41	17-27-44	21-31-47	23-35-50	26-40-57	
Noise Criteria	—	19	24	28	32	36	40	47		
18" Dia.	Total Pressure	.022	.039	.061	.087	.118	.155	.196	.293	
	Flow Rate, CFM	530	705	885	1060	1235	1415	1590	1945	
	Throw	4-Way	4-7-14	5-9-18	7-10-20	9-13-24	10-16-26	10-19-28	13-21-29	17-25-33
		3-Way	4-7-17	6-10-21	8-12-24	10-15-28	11-20-30	13-22-32	17-24-34	19-27-39
		2-Way	7-10-23	10-14-29	11-17-34	15-22-36	18-28-43	20-30-44	24-34-50	27-39-57
1-Way		8-12-26	11-17-33	14-21-40	18-25-45	21-32-50	23-38-53	29-40-56	33-46-64	
Noise Criteria	—	21	26	30	34	38	42	49		

For performance notes, see page D171.

PERFORMANCE DATA:

Models 4320CB, 4325CB, 4320CBA, 4325CBA, 4320CBAA, 4325CBAA • 24 x 24 (600 x 600)
Module Size • Square Neck

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	900	1100	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.051	.075	
6 x 6	Total Pressure	.015	.027	.039	.057	.078	.103	.132	.199	
	Flow Rate, CFM	75	100	125	150	175	200	225	275	
	Throw	4-Way	1-2-5	2-3-7	3-4-8	3-5-8	4-6-9	5-7-10	5-7-11	6-8-12
		3-Way	2-3-6	2-4-8	3-5-11	4-6-12	5-7-13	5-8-14	6-10-15	7-11-16
		2-Way	3-4-9	4-6-12	5-7-15	6-9-17	7-10-20	8-12-21	9-14-22	10-16-25
1-Way		3-5-10	4-7-14	6-9-18	7-10-21	8-12-23	9-14-24	10-16-26	11-18-29	
Noise Criteria	—	—	—	18	23	27	29	35		
8 x 8	Total Pressure	.016	.029	.045	.066	.089	.116	.147	.220	
	Flow Rate, CFM	135	175	220	265	310	355	400	490	
	Throw	4-Way	2-3-6	3-4-9	3-5-10	4-6-11	5-8-12	6-9-13	6-10-14	7-11-16
		3-Way	2-3-7	3-5-10	4-6-12	5-7-13	6-9-14	7-10-15	7-11-16	8-12-18
		2-Way	3-5-11	4-7-14	6-9-17	7-11-20	8-13-21	9-14-23	11-16-24	12-18-27
1-Way		4-6-12	5-8-17	7-10-21	8-12-23	9-14-25	11-17-27	12-20-28	15-22-32	
Noise Criteria	—	—	18	22	27	31	33	38		
10 x 10	Total Pressure	.018	.031	.049	.072	.099	.129	.163	.246	
	Flow Rate, CFM	210	275	345	415	485	555	625	765	
	Throw	4-Way	2-4-8	3-5-11	4-7-13	5-8-14	6-10-16	7-11-17	8-12-18	9-13-21
		3-Way	3-4-9	4-6-13	5-8-15	6-9-17	7-11-18	8-13-20	9-14-22	10-16-25
		2-Way	4-6-13	6-9-18	7-11-22	9-13-25	10-16-26	12-18-28	13-21-30	15-24-34
1-Way		5-8-16	7-10-22	8-13-26	10-16-29	12-18-31	14-22-33	16-25-35	18-29-40	
Noise Criteria	—	—	20	24	29	32	35	41		
12 x 12	Total Pressure	.019	.035	.055	.079	.108	.139	.178	.433	
	Flow Rate, CFM	300	400	500	600	700	800	900	1100	
	Throw	4-Way	3-5-10	4-6-13	5-8-16	6-10-17	8-12-20	9-13-21	10-15-22	11-17-25
		3-Way	3-5-11	5-7-15	6-9-18	7-11-21	9-13-23	10-15-24	11-17-26	12-19-29
		2-Way	5-8-16	7-11-23	9-13-27	11-16-29	13-20-32	14-23-34	16-25-36	18-29-41
1-Way		6-9-20	8-12-26	10-16-31	12-20-34	14-23-37	17-26-40	22-31-44	25-35-50	
Noise Criteria	—	17	22	26	30	34	37	43		
14 x 14	Total Pressure	.020	.037	.059	.085	.117	.152	.192	.253	
	Flow Rate, CFM	410	545	680	815	955	1090	1225	1500	
	Throw	4-Way	1-1-6	1-3-8	2-4-11	3-6-13	4-7-15	5-8-17	7-11-22	8-12-25
		3-Way	1-3-10	2-6-14	4-9-18	6-10-21	8-12-26	9-14-29	11-18-37	12-21-42
		2-Way	2-5-14	4-9-19	7-12-24	9-14-30	11-17-35	13-19-40	16-24-47	18-27-54
1-Way		3-8-17	6-11-23	9-14-30	11-17-36	13-20-42	15-23-48	19-30-54	22-35-64	
Noise Criteria	—	18	23	27	31	35	39	46		
15 x 15	Total Pressure	.012	.039	.061	.089	.121	.158	.198	.298	
	Flow Rate, CFM	470	625	780	935	1095	1250	1405	1720	
	Throw	4-Way	4-6-12	5-8-17	7-10-21	8-12-23	10-15-25	11-17-26	12-20-28	13-22-32
		3-Way	4-7-14	6-9-20	8-12-24	9-14-26	11-17-28	13-20-30	14-23-32	16-26-36
		2-Way	6-10-21	9-13-28	11-17-33	13-21-37	16-25-40	18-28-42	21-32-45	24-36-51
1-Way		8-12-25	10-16-33	13-21-39	16-25-43	18-29-46	22-33-49	25-37-53	29-42-60	
Noise Criteria	—	19	24	28	32	36	40	47		
16 x 16	Total Pressure	.023	.041	.064	.092	.125	.163	.207	.311	
	Flow Rate, CFM	530	710	890	1065	1245	1420	1600	1955	
	Throw	4-Way	4-7-14	5-9-18	7-10-20	9-13-24	10-16-26	10-19-28	13-21-29	15-24-33
		3-Way	4-7-17	6-10-21	8-12-24	10-15-28	11-20-30	13-22-32	17-24-34	19-27-39
		2-Way	7-10-23	10-14-29	11-17-34	15-22-36	18-28-43	20-30-44	24-34-50	27-39-57
1-Way		8-12-26	11-17-33	14-21-40	18-25-45	21-32-50	23-38-53	29-40-56	33-46-64	
Noise Criteria	—	20	25	29	33	37	41	49		
18 x 18	Total Pressure	.024	.042	.067	.095	.129	.170	.215	.322	
	Flow Rate, CFM	675	900	1125	1350	1575	1800	2025	2475	
	Throw	4-Way	5-7-15	6-10-21	8-12-25	10-15-27	12-18-30	13-21-32	15-24-33	17-27-38
		3-Way	5-8-17	7-11-24	9-14-29	11-17-32	13-22-34	15-24-36	17-27-39	19-31-44
		2-Way	8-12-26	11-16-34	13-21-40	16-26-44	20-30-47	23-34-50	26-38-54	29-43-62
1-Way		9-14-29	12-20-39	16-25-47	20-29-52	23-34-56	26-39-60	29-44-64	33-50-73	
Noise Criteria	15	22	27	31	35	39	43	51		

Performance Notes:

- All pressures are in inches w.g..
- Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Noise Criteria (NC) values are based upon 10 dB room absorption, re 10⁻¹² watts.

Dash (—) in space indicates an Noise Criteria of less than 15.

4. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

Balancing:

It is recommended that a commercially

available 'Flow Hood' is used for field balancing. The airflow meter directly reads average flow rate with great accuracy at all volumes. It is a much faster and more accurate alternative to time consuming multiple velocity readings, eliminating the use of Ak factors and the calculations required to convert the average velocity into airflow.