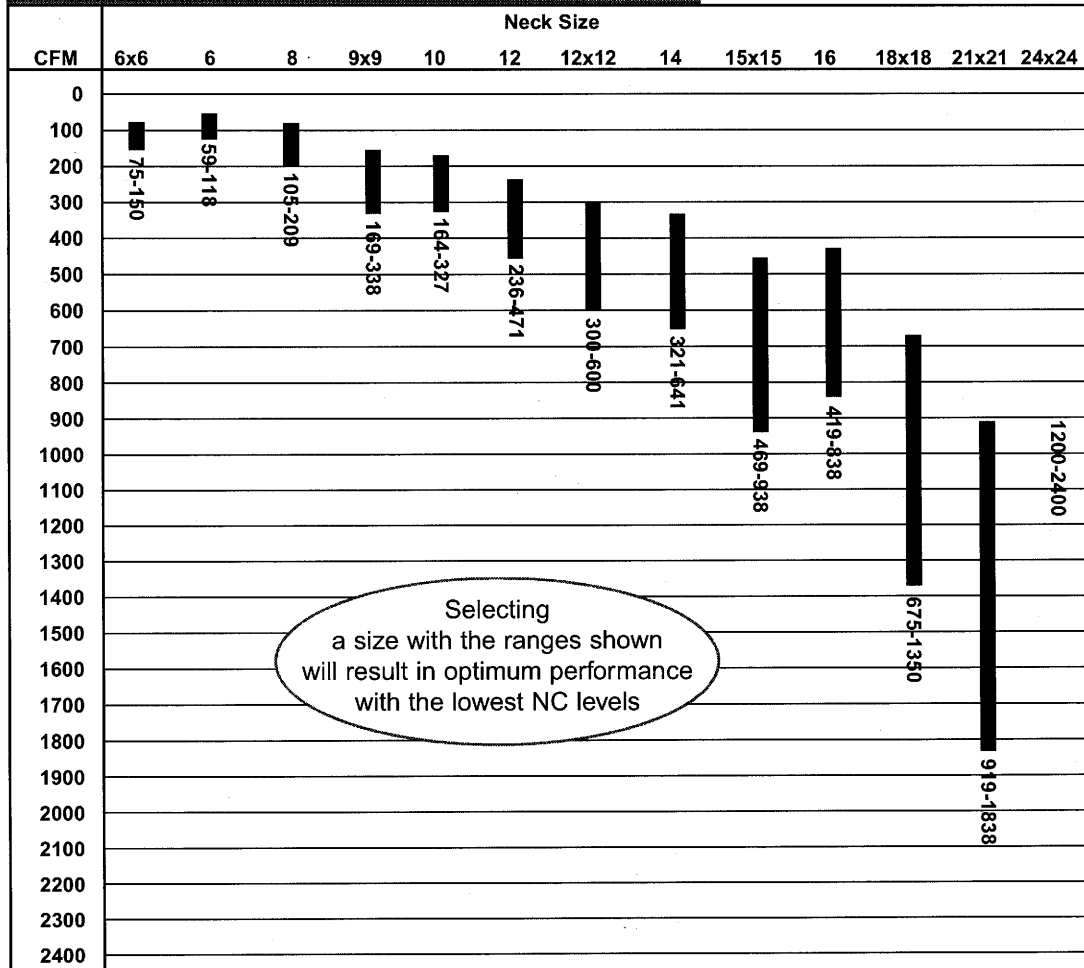


Square/Rectangular  
& Square Louvered &  
Plaque Face Diffusers

• Quick Select Chart  
for SK & SE  
Diffusers

**Quick Selection Chart for SK/SE Diffusers**



Selecting a size with the ranges shown will result in optimum performance with the lowest NC levels

Sq. & Rect. Louvered Diffusers

**Square/Rectangular & Square Louvered & Plaques Face Diffusers**

• Square Neck Performance Data or SK & SE Diffusers

Neck Velocity	300	400	500	600	700	800	900
Static Pressure	.033	.059	.092	.134	.182	.237	.301
Total Pressure	.039	.069	.108	.156	.212	.277	.351

**Neck Size: 6" x 6" (.25 Sq. Ft.)**

Total cfm NC/RC		75		100		125		150		175		200		225	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	75	10-13-14	100	11-14-17	125	12-16-19	150	13-17-22	175	14-19-24	200	15-20-26	225	15-21-28
20 & 25	X	38	5-7-11	50	6-9-13	63	7-10-15	75	8-11-17	88	9-12-18	100	10-13-20	113	10-14-21
30	X	28	5-7-10	38	6-9-12	47	7-10-13	56	8-11-15	66	9-12-16	75	10-13-17	84	10-14-19
	Y	19	4-6-9	25	5-7-10	31	6-8-11	38	7-9-12	44	8-9-13	50	9-10-14	56	10-11-15
40	X	19	4-6-9	25	5-7-10	31	6-8-11	38	7-9-12	44	8-9-13	50	9-10-14	56	10-11-15

**Neck Size: 9" x 9" (.5625 Sq. Ft.)**

Total cfm NC/RC		169		225		281		338		394		450		506	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	169	15-18-21	225	16-20-25	281	18-22-28	338	19-24-31	394	20-26-34	450	21-27-37	506	22-29-40
20 & 25	X	84	7-10-15	113	9-12-18	141	10-14-22	169	12-16-23	197	13-17-26	225	14-19-28	253	15-20-30
30	X	63	7-10-14	84	9-12-16	105	10-14-18	127	11-16-21	148	12-17-23	169	13-19-25	190	14-20-26
	Y	42	6-9-13	56	7-10-15	70	9-11-16	84	10-13-18	98	11-14-19	113	12-15-21	127	13-16-22
40	X	42	6-9-13	56	7-10-15	70	9-11-16	84	10-13-18	98	11-14-19	113	12-15-21	127	13-16-22

**Neck Size: 12" x 12" (1.0 Sq. Ft.)**

Total cfm NC/RC		300		400		500		600		700		800		900	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	300	20-24-28	400	22-27-33	500	24-29-37	600	25-32-41	700	27-34-45	800	28-36-48	900	29-38-52
20 & 25	X	150	9-14-20	200	11-16-24	250	12-19-28	300	14-21-31	350	16-23-33	400	17-25-36	450	18-27-39
30	X	113	9-14-19	150	11-16-22	188	13-18-25	225	14-21-27	263	16-23-30	300	17-25-32	338	19-26-34
	Y	75	8-11-16	100	10-13-19	125	11-15-21	150	13-17-23	175	15-18-25	200	16-20-27	225	17-21-29
40	X	75	8-11-16	100	10-13-19	125	11-15-21	150	13-17-23	175	15-18-25	200	16-20-27	225	17-21-29

**Neck Size: 15" x 15" (1.5625 Sq. Ft.)**

Total cfm NC/RC		469		625		781		938		1094		1250		1406	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	469	24-29-34	625	27-33-40	781	29-36-45	938	31-39-50	1094	32-41-54	1250	34-44-59	1406	35-46-62
20 & 25	X	234	11-18-26	313	13-21-30	391	16-24-34	469	18-26-38	547	19-29-41	625	21-31-44	703	23-34-47
30	X	176	12-17-23	234	14-20-27	293	16-23-30	352	18-25-33	410	19-28-36	469	21-30-39	527	23-33-41
	Y	117	10-14-20	156	12-16-23	195	14-19-26	234	16-20-29	273	18-22-31	313	19-24-33	352	21-25-35
40	X	117	10-14-20	156	12-16-23	195	14-19-26	234	16-20-29	273	18-22-31	313	19-24-33	352	21-25-35

**Neck Size: 18" x 18" (2.25 Sq. Ft.)**

Total cfm NC/RC		675		900		1125		1350		1575		1800		2025	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	675	30-35-41	900	33-39-47	1125	35-42-53	1350	37-45-59	1575	39-48-64	1800	41-51-69	2025	43-53-74
20 & 25	X	338	15-21-31	450	17-25-36	563	20-29-40	675	22-31-44	788	25-34-48	900	27-37-51	1013	29-40-55
30	X	253	14-19-27	338	16-23-31	422	19-26-35	506	21-29-39	591	23-32-42	675	25-35-46	759	27-38-49
	Y	169	12-17-24	225	15-20-28	281	17-22-32	338	19-24-34	394	21-26-37	450	23-28-39	506	25-30-42
40	X	169	12-17-24	225	15-20-28	281	17-22-32	338	19-24-34	394	21-26-37	450	23-28-39	506	25-30-42

**Neck Size: 21" x 21" (3.0625 Sq. Ft.)**

Total cfm NC/RC		919		1225		1531		1838		2144		2450		2756	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	919	33-40-47	1225	37-44-55	1531	40-48-62	1838	42-52-68	2144	44-55-74	2450	46-58-79	2756	48-61-84
20 & 25	X	459	17-24-37	613	20-29-42	766	23-32-47	919	26-36-51	1072	28-39-55	1225	31-42-59	1378	33-45-62
30	X	345	16-22-31	459	18-26-36	574	21-30-41	689	24-34-45	804	26-37-49	919	28-40-52	1034	31-44-55
	Y	230	14-19-27	306	17-23-32	383	20-25-36	459	22-28-39	536	24-30-42	613	26-33-45	689	28-35-48
40	X	230	14-19-27	306	17-23-32	383	20-25-36	459	22-28-39	536	24-30-42	613	26-33-45	689	28-35-48

**Neck Size: 24" x 24" (4.0 Sq. Ft.)**

Total cfm NC/RC		1200		1600		2000		2400		2800		3200		3600	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	1200	38-45-54	1600	41-50-62	2000	45-55-70	2400	47-58-77	2800	50-62-83	3200	52-65-89	3600	55-68-94
20 & 25	X	600	19-28-43	800	22-33-49	1000	26-37-54	1200	29-41-59	1400	32-44-63	1600	34-48-67	1800	37-51-70
30	X	450	18-26-36	600	21-30-41	750	24-35-47	900	27-39-51	1050	29-42-55	1200	32-46-59	1350	34-49-63
	Y	300	16-22-32	400	19-26-36	500	22-29-41	600	25-32-44	700	28-34-48	800	30-37-51	900	32-39-54
40	X	300	16-22-32	400	19-26-36	500	22-29-41	600	25-32-44	700	28-34-48	800	30-37-51	900	32-39-54

**NOTES:** — Performance data is based on tests conducted according to ANSI/ASHRAE Standard 70-1991. Actual performance in the field may vary. Testing was conducted in isothermal conditions.  
 — The neck velocity is given in Feet Per Minute (FPM).  
 — The Static Pressure and Total Pressure are given in inches of water. To arrive at Velocity Pressure, subtract Static Pressure.  $P (Total) - P (Static) = P (Velocity)$ .  
 — NC and RC levels are based on a room absorption of 10db re 10-12 watts. A "—" indicates an NC or RC level of less than 10.  
 — Throw values are given in feet for terminal velocities of 150, 100 and 50 FPM, respectively.

**SQUARE BLOW PATTERNS**

10 One Way Square Long Blow

20 Two Way Square Short Blows

25 Two Way Square Short Blow Right

30 Three Way Square One Short Blow

40 Four Way Square

Sq. & Rect. Louvered Diffusers

**Square/Rectangular & Square Louvered & Plaques Face Diffusers**

- Rectangular Neck
  - Round Neck
- Performance Data for SK & SE

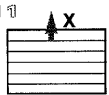
<b>Neck Velocity</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>700</b>	<b>800</b>	<b>900</b>
<b>Static Pressure</b>	.033	.059	.092	.134	.182	.237	.301
<b>Total Pressure</b>	.039	.069	.108	.156	.212	.277	.351

**Neck Size: 21" x 24" (3.5 Sq. Ft.)**

Blow Ptn	Side	1050 15/14R		1400 22/21R		1750 27/26N		2100 32/31N		2450 36/35N		2800 41/39N		3150 43/42H	
		ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
11 & 12	X	1050	35-42-50	1400	38-47-59	1750	41-51-66	2100	44-55-73	2450	46-58-79	2800	49-61-86	3150	51-64-91
21 & 22	X	525	18-26-39	700	22-31-44	875	25-35-50	1050	28-38-54	1225	31-42-59	1400	33-45-62	1575	36-48-66
26 & 27	X	591	19-28-42	788	23-32-48	984	26-37-53	1181	29-41-58	1378	32-44-63	1575	35-48-67	1772	38-51-71
	Y	459	17-24-37	613	20-29-42	766	23-32-47	919	26-36-51	1072	28-39-55	1225	31-42-59	1378	33-45-62
31	X	300	16-22-32	400	19-26-36	500	22-29-41	600	25-32-44	700	28-34-48	800	30-37-51	900	32-39-54
	Y	375	16-24-32	500	19-28-38	625	22-32-43	750	24-35-47	875	27-39-51	1000	29-42-54	1125	31-45-58
32	X	410	17-25-34	547	21-30-40	684	24-34-45	820	26-38-49	957	29-41-53	1094	31-45-57	1230	34-48-60
	Y	230	14-19-27	306	17-23-32	383	20-25-36	459	22-28-39	536	24-30-42	613	26-33-45	689	28-35-48
41	X	295	16-22-31	394	19-26-36	492	22-29-40	591	24-32-44	689	26-34-48	788	28-37-51	886	30-39-54
	Y	230	14-19-27	306	17-23-32	383	20-25-36	459	22-28-39	536	24-30-42	613	26-33-45	689	28-35-48

**RECTANGULAR BLOW PATTERNS**

1 1



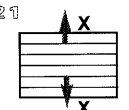
One Way Rectangular Long Blow

1 2



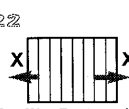
One Way Rectangular Short Blow

2 1



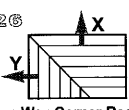
Two Way Rectangular Long Blow

2 2



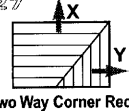
Two Way Rectangular Short Blow

2 6



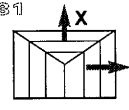
Two Way Corner Rect. Short Blow Left

2 7



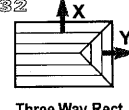
Two Way Corner Rect. Short Blow Right

3 1



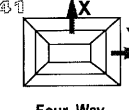
Three Way Rect. One Long Blow

3 2



Three Way Rect. One Short Blow

4 1



Four Way Rectangular

**6" Round Inlet (.196 ft.<sup>2</sup>) on a 6" x 6" Diffuser**

Blow Ptn	Side	59 Static Pressure .038 Total Pressure .044 NC/RC —		79 Static Pressure .063 Total Pressure .073 NC/RC —/12H		98 Static Pressure .092 Total Pressure .108 NC/RC 14/16H		118 Static Pressure .127 Total Pressure .149 NC/RC 19/21H		137 Static Pressure .163 Total Pressure .193 NC/RC 24/25H		157 Static Pressure .203 Total Pressure .243 NC/RC 28/29H		177 Static Pressure .248 Total Pressure .298 NC/RC 32/32H	
		ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	59	9-11-12	79	10-13-15	98	11-14-17	118	12-16-19	137	13-17-21	157	13-18-22	177	14-19-24
20 & 25	X	29	4-6-9	39	5-7-11	49	6-9-13	59	7-10-14	69	7-11-16	79	8-11-17	88	9-12-18
30	X	22	4-6-9	29	5-7-10	37	6-9-12	44	7-10-13	52	7-11-14	59	8-11-15	66	9-13-16
	Y	15	3-5-8	20	4-6-9	25	5-7-10	29	6-7-11	34	6-8-12	39	7-9-13	44	8-9-14
40	X	15	3-5-8	20	4-6-9	25	5-7-10	29	6-7-11	34	6-8-12	39	7-9-13	44	8-9-14

**6" Round Inlet (.196 ft.<sup>2</sup>) on a 9" x 9" Diffuser**

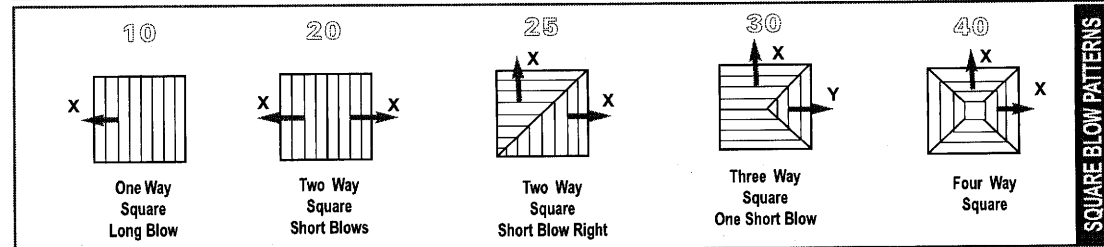
Blow Ptn	Side	59 Static Pressure .005 Total Pressure .011 NC/RC —		79 Static Pressure .008 Total Pressure .018 NC/RC —		98 Static Pressure .011 Total Pressure .027 NC/RC —		118 Static Pressure .014 Total Pressure .036 NC/RC 11/11N		137 Static Pressure .017 Total Pressure .047 NC/RC 13/13N		157 Static Pressure .019 Total Pressure .059 NC/RC 15/15N		177 Static Pressure .023 Total Pressure .073 NC/RC 18/18H	
		ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	59	10-11-12	79	11-13-14	98	12-14-15	118	13-15-17	137	13-16-19	157	14-17-20	177	15-18-21
20 & 25	X	29	4-5-8	39	4-6-10	49	5-7-11	59	6-8-13	69	6-9-14	79	7-10-15	88	8-11-16
30	X	22	4-5-7	29	4-7-9	37	5-8-10	44	6-8-11	52	6-9-12	59	7-10-13	66	7-11-14
	Y	15	3-5-7	20	3-6-8	25	4-6-9	29	5-7-10	34	5-8-11	39	6-8-12	44	6-9-13
40	X	15	3-5-7	20	3-6-8	25	4-6-9	29	5-7-10	34	5-8-11	39	6-8-12	44	6-9-13

**8" Round Inlet (.349 ft.<sup>2</sup>) on a 9" x 9" Diffuser**

Blow Ptn	Side	105 Static Pressure .023 Total Pressure .029 NC/RC —		140 Static Pressure .038 Total Pressure .048 NC/RC 11/11N		175 Static Pressure .055 Total Pressure .071 NC/RC 16/15N		209 Static Pressure .076 Total Pressure .098 NC/RC 20/19H		244 Static Pressure .100 Total Pressure .130 NC/RC 25/24H		279 Static Pressure .131 Total Pressure .171 NC/RC 29/28H		314 Static Pressure .147 Total Pressure .197 NC/RC 32/31H	
		ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	105	12-14-16	140	14-16-19	175	15-18-21	209	16-20-24	244	17-21-26	279	17-22-28	314	18-23-30
20 & 25	X	52	5-8-12	70	7-9-14	87	8-11-16	105	8-12-18	122	9-13-19	140	10-14-21	157	11-15-22
30	X	39	5-8-10	52	6-9-12	65	7-11-14	79	8-12-16	92	9-13-17	105	10-14-18	118	11-15-20
	Y	26	4-6-10	35	5-8-11	44	6-9-13	52	7-10-14	61	8-11-15	70	9-11-16	79	9-12-17
40	X	26	4-6-10	35	5-8-11	44	6-9-13	52	7-10-14	61	8-11-15	70	9-11-16	79	9-12-17

**Neck Size 8" Dia. (.349 ft.<sup>2</sup>) 12" x 12" Diffuser**

Blow Ptn	Side	105 Static Pressure .005 Total Pressure .011 NC/RC —		140 Static Pressure .008 Total Pressure .018 NC/RC —		175 Static Pressure .011 Total Pressure .027 NC/RC 10/10N		209 Static Pressure .014 Total Pressure .036 NC/RC 12/12N		244 Static Pressure .017 Total Pressure .047 NC/RC 15/14N		279 Static Pressure .019 Total Pressure .059 NC/RC 17/16N		314 Static Pressure .023 Total Pressure .073 NC/RC 20/19N	
		ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	105	14-15-16	140	15-17-19	175	16-19-21	209	17-20-23	244	18-22-25	279	19-23-27	314	20-24-29
20 & 25	X	52	5-7-11	70	6-9-13	87	6-10-15	105	7-11-17	122	8-12-18	140	9-13-20	157	9-14-21
30	X	39	5-7-10	52	6-9-12	65	7-10-14	79	7-11-15	92	8-12-17	105	9-13-18	118	10-14-19
	Y	26	4-6-9	35	5-7-11	44	5-8-12	52	6-10-14	61	7-10-15	70	8-11-16	79	8-12-17
40	X	26	4-6-9	35	5-7-11	44	5-8-12	52	6-10-14	61	7-10-15	70	8-11-16	79	8-12-17



- NOTES:**
- Performance data is based on tests conducted according to ANSI/ASHRAE Standard 70-1991. Actual performance in the field may vary. Testing was conducted in isothermal conditions.
  - The neck velocity is given in Feet Per Minute (FPM).
  - The Static Pressure and Total Pressure are given in inches of water. To arrive at Velocity Pressure, subtract Static Pressure. (P (Total) - P (Static) = P (Velocity)).
  - NC and RC levels are based on a room absorption of 10db re 10-12 watts. A "—" indicates an NC or RC level of less than 10.
  - Throw values are given in feet for terminal velocities of 150, 100 and 50 FPM, respectively.

Sq. & Rect. Louvered Diffusers

Neck Velocity	300	400	500	600	700	800	900
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Square/Rectangular & Square Louvered & Plaque Face Diffusers

• Round Neck Performance Data for SK & SE Diffusers

9" Round Inlet (.442 ft.<sup>2</sup>) on a 9" x 9" Diffuser

Total cfm		133		177		221		265		309		353		398	
Static Pressure		0.038		0.063		0.092		0.127		0.163		0.203		0.248	
Total Pressure		0.044		0.073		0.108		0.149		0.193		0.243		0.298	
NC/RC		—		14/13N		20/19H		24/23H		29/27H		33/31H		36/35H	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	133	13-16-18	177	15-18-22	221	16-20-24	265	17-22-27	309	18-23-30	353	19-25-32	398	20-26-34
20 & 25	X	66	6-9-13	88	8-11-16	110	9-13-18	133	10-14-20	155	11-15-22	177	12-16-24	199	13-18-26
30	X	50	7-9-12	66	7-11-14	83	8-12-16	99	10-14-18	116	10-15-20	133	11-16-21	149	12-17-23
	Y	33	5-7-11	44	6-9-13	55	7-10-14	66	8-11-16	77	9-12-17	88	10-13-18	99	11-14-19
40	X	33	5-7-11	44	6-9-13	55	7-10-14	66	8-11-16	77	9-12-17	88	10-13-18	99	11-14-19

10" Round Inlet (.545 ft.<sup>2</sup>) on a 12" x 12" Diffuser

Total cfm		164		218		273		327		382		436		491	
Static Pressure		.018		.030		.042		.057		.073		.089		.109	
Total Pressure		.024		.040		.058		.079		.103		.129		.159	
NC/RC		—		12/11N		16/15N		20/19N		25/23N		28/27N		32/31N	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	164	16-18-21	218	18-21-24	273	19-23-27	327	20-25-30	382	22-26-32	436	23-28-35	491	25-30-37
20 & 25	X	82	6-10-14	109	7-11-17	136	9-13-19	164	10-15-22	191	11-16-24	218	11-17-25	245	12-18-27
30	X	61	6-10-13	82	8-11-16	102	9-13-18	123	10-14-19	143	11-16-21	164	12-17-23	184	13-18-24
	Y	41	5-8-12	55	6-9-14	68	7-11-16	82	8-12-17	95	9-13-19	109	10-14-20	123	11-15-21
40	X	41	5-8-12	55	6-9-14	68	7-11-16	82	8-12-17	95	9-13-19	109	10-14-20	123	11-15-21

10" Round Inlet (.545 ft.<sup>2</sup>) on a 15" x 15" Diffuser

Total cfm		164		218		273		327		382		436		491	
Static Pressure		.005		.008		.011		.014		.017		.019		.023	
Total Pressure		.011		.018		.027		.036		.047		.059		.073	
NC/RC		—		—		10/10N		13/13N		16/15N		18/17N		21/20N	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	164	17-19-20	218	19-22-23	273	20-24-26	327	21-26-28	382	23-27-31	436	24-29-33	491	25-30-35
20 & 25	X	82	6-9-15	109	7-11-17	136	8-13-19	164	9-14-21	191	10-16-23	218	11-17-25	245	12-18-27
30	X	61	6-9-13	82	7-10-16	102	8-12-17	123	9-13-19	143	10-15-21	164	11-16-22	184	12-17-24
	Y	41	5-8-12	55	6-9-14	68	7-10-15	82	8-12-17	95	9-12-18	109	10-13-19	123	10-14-21
40	X	41	5-8-12	55	6-9-14	68	7-10-15	82	8-12-17	95	9-12-18	109	10-13-19	123	10-14-21

12" Round Inlet (.785 ft.<sup>2</sup>) on a 12" x 12" Diffuser

Total cfm		236		314		393		471		550		628		707	
Static Pressure		.038		.063		.092		.127		.163		.203		.248	
Total Pressure		.044		.073		.108		.149		.193		.243		.298	
NC/RC		10/10N		16/15N		22/20N		26/25N		30/29N		34/33N		38/37H	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	236	18-21-25	314	20-24-29	393	22-27-33	471	23-29-36	550	24-30-39	628	26-32-42	707	27-34-45
20 & 25	X	118	8-12-18	157	9-14-21	196	11-16-24	236	12-18-27	275	13-20-29	314	14-21-31	353	16-23-34
30	X	88	8-12-16	118	10-14-19	147	11-16-22	177	12-18-24	206	14-20-26	236	15-21-28	265	16-23-30
	Y	59	7-10-14	79	8-12-17	98	10-13-19	118	11-15-21	137	12-16-22	157	13-17-24	177	15-18-26
40	X	59	7-10-14	79	8-12-17	98	10-13-19	118	11-15-21	137	12-16-22	157	13-17-24	177	15-18-26

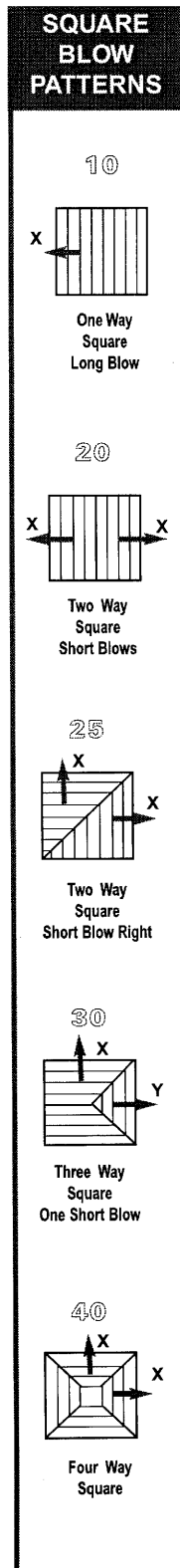
12" Round Inlet (.785 ft.<sup>2</sup>) on a 15" x 15" Diffuser

Total cfm		236		314		393		471		550		628		707	
Static Pressure		.015		.024		.034		.047		.059		.071		.088	
Total Pressure		.021		.034		.050		.069		.089		.111		.138	
NC/RC		—		12/11N		15/14N		19/18N		23/23N		28/27N		31/30N	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	236	19-22-24	314	21-25-28	393	23-27-31	471	24-30-35	550	26-32-38	628	27-33-40	707	28-35-43
20 & 25	X	118	7-12-18	157	9-14-21	196	10-16-24	236	11-18-26	275	12-19-28	314	14-21-30	353	15-22-33
30	X	88	8-11-16	118	9-13-19	147	10-15-21	177	12-17-23	206	13-18-25	236	14-19-27	265	15-21-29
	Y	59	6-10-14	79	8-11-16	98	9-13-18	118	10-14-20	137	11-15-22	157	12-16-23	177	13-18-25
40	X	59	6-10-14	79	8-11-16	98	9-13-18	118	10-14-20	137	11-15-22	157	12-16-23	177	13-18-25

12" Round Inlet (.785 ft.<sup>2</sup>) on a 18" x 18" Diffuser

Total cfm		236		314		393		471		550		628		707	
Static Pressure		.005		.008		.011		.014		.017		.019		.023	
Total Pressure		.011		.018		.027		.036		.047		.059		.073	
NC		—		—		11/11N		14/13N		16/16N		19/18N		22/21N	
Blow Ptn	Side	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw	ea. cfm	throw
10	X	236	20-22-23	314	23-26-27	393	25-28-30	471	27-30-33	550	28-32-36	628	29-34-39	707	30-35-42
20 & 25	X	118	8-12-18	157	9-14-20	196	10-16-23	236	12-17-25	275	13-19-28	314	14-20-30	353	15-22-31
30	X	88	8-10-15	118	9-11-17	147	10-14-20	177	11-15-22	206	12-17-24	236	13-18-26	265	14-19-28
	Y	59	6-9-14	79	7-11-16	98	9-12-18	118	10-14-20	137	11-15-22	157	12-16-23	177	13-17-24
40	X	59	6-9-14	79	7-11-16	98	9-12-18	118	10-14-20	137	11-15-22	157	12-16-23	177	13-17-24

NOTES: — Performance data is based on tests conducted according to ANSI/ASHRAE Standard 70-1991. Actual performance in the field may vary. Testing was conducted in isothermal conditions.  
 — The neck velocity is given in Feet Per Minute (FPM).  
 — The Static Pressure and Total Pressure are given in inches of water. To arrive at Velocity Pressure, subtract Static Pressure. (P (Total) - P (Static) = P (Velocity)).  
 — NC and RC levels are based on a room absorption of 10db re 10-12 watts. A "—" indicates an NC or RC level of less than 10.  
 — Throw values are given in feet for terminal velocities of 150, 100 and 50 FPM, respectively.



Sq. & Rect. Louvered Diffusers