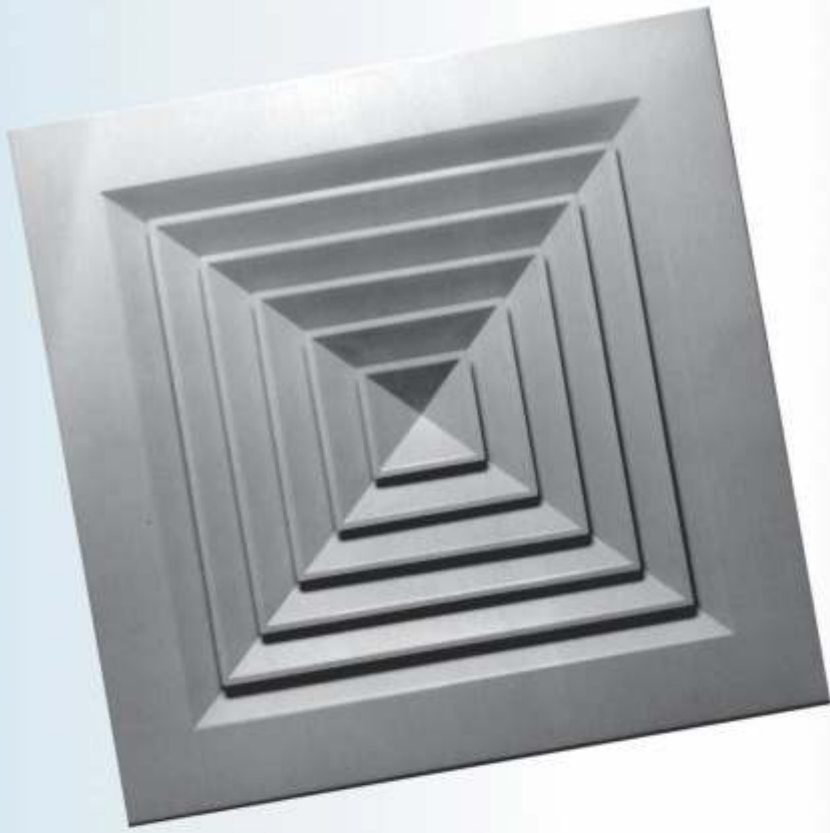




TDC

Louvered Face

Diffusers | Square and Rectangular, Louvered Face | Description

Square and Rectangular Ceiling Diffusers

High Capacity TDC, TD

C-AA

TDCA, TDCA-AA

Steel Models:

TDC - S : classic frame

Aluminum Models:

TDC : classic frame

TDC - B : high frame

These Products Include:

- Standard Finish:
#26 White.



Series TDC diffusers handle an unusually large amount of air for a given pressure drop and noise level.

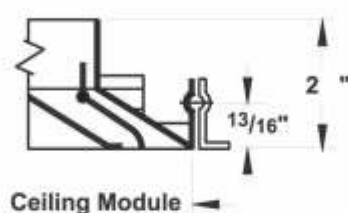
- Pleasing appearance harmonizes with various architectural details - especially modular ceiling systems.
- Maintains an unbroken horizontal ow pattern from maximum cfm down to minimum. Excellent performance in variable air volume systems.
- In the TDC and TDC - B models, movable vanes, accessible from the face, adjust the discharge pattern from horizontal to vertical.
- Core is easily removable from the face of the diffuser.
- Lever operator on the optional Model AG-95 damper allows easy volume adjustment from the face of the diffuser.
- Extremely exible, with cores available for one-, two-, three- or four-way horizontal ow.



Material is 22-gauge steel or aluminum with miscellaneous steel components.

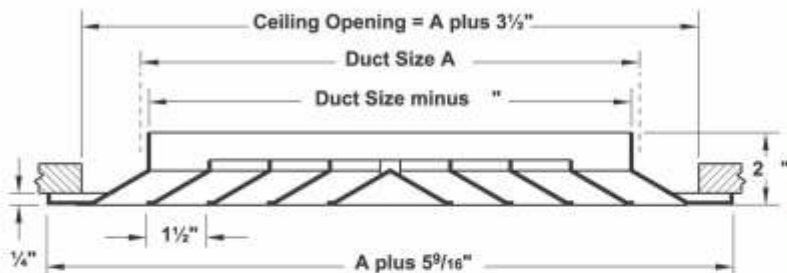
For a uniform face appearance on all neck sizes, specify an 18 x 18-inch dimension A size and the desired round neck size. This is available in 24 x 24-inch lay-in module size only.

Border Type 2
(Snap-In)

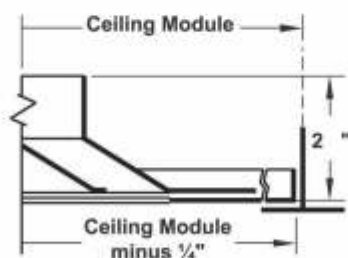


Ceiling Module

Border Type 1 (Surface Mount)
Square or Rectangular Neck

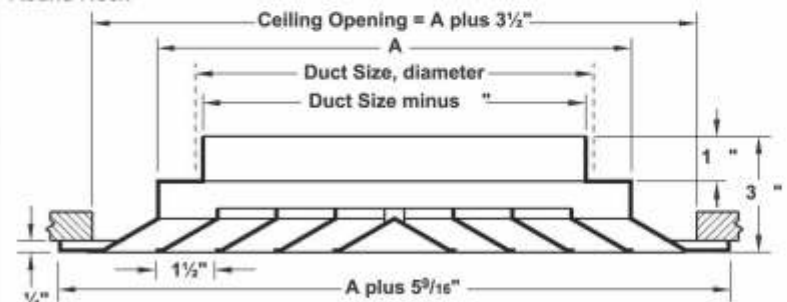


Border Type 3
(Lay-In)



Ceiling Module
minus 1/4"

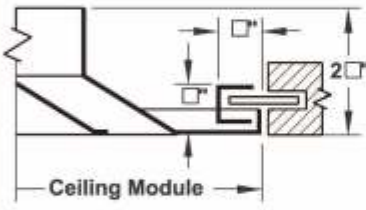
Border Type 1 (Surface Mount)
Round Neck



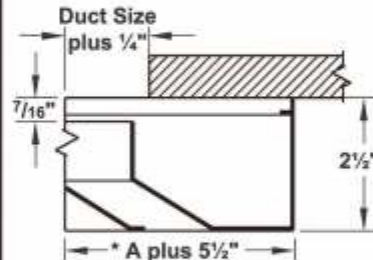


Border Types (continued) Available Duct Sizes • Square and Rectangular Necks Diffusers | Square and Rectangular, Louvered Face | Dimensions

Border Type 4
(Spline)

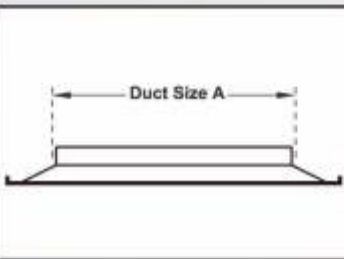
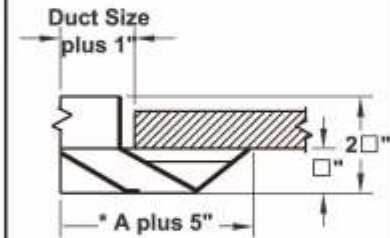


Border Type 5
(Dropped Face)



Available in Steel Only
Note: Std. diffuser is 2 1/2" deep. Optional 4" deep diffuser is available.

Border Type 6
(Beveled Drop Face)

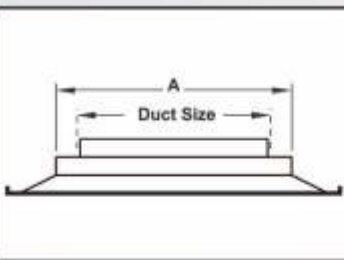


Border Types 1, 5, 6	
Minimum Duct Size A	Maximum Duct Size A
6 x 6	48 x 48

Border Types 2, 3*, 4					
Available Module Size	Min. Duct Size A	Max. Duct Size A TDC (Steel)	Max. Duct Size A TDC-AA (Alum.)	Max. Duct Size A TDCA (Steel, Adj.)	Max. Duct Size A TDCA-AA (Alum., Adj.)
12 x 12	6 x 6	9 x 9*	9 x 9*	6 x 6	6 x 6
24 x 24	6 x 6	21 x 21*	21 x 21*	18 x 18	18 x 18
48 x 24	12 x 12	45 x 21*	42 x 21*	18 x 18	18 x 18

* Frame 3 maximum duct size available in 4-way blow only.

Note: Duct sizes are available in 3" increments only. Maximum duct size for border 5 is 36" x 36".

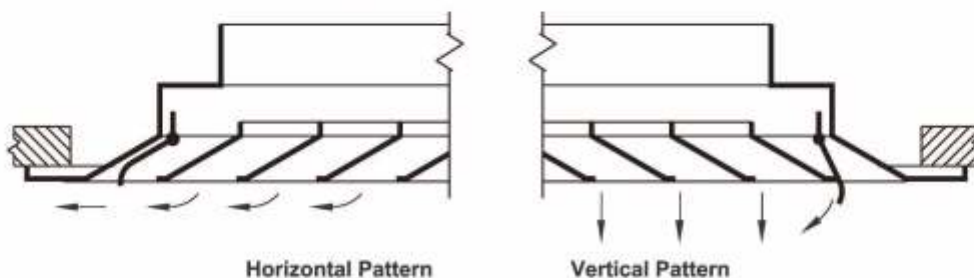


Border Types 1, 5, 6	
Dimension A	Available Round Duct Size
6 x 6	6
9 x 9	6, 8
12 x 12	6, 8, 10, 12
15 x 15	6, 8, 10, 12, 14
18 x 18	6, 8, 10, 12, 14, 16

Border Types 2, 3, 4		
Available Module Size	Dimension A	Available Round Duct Size
12 x 12	6 x 6	6
	9 x 9	6, 8
24 x 24	6 x 6	6
	9 x 9	6, 8
	12 x 12	6, 8, 10, 12
	15 x 15	6, 8, 10, 12, 14
	18 x 18	6, 8, 10, 12, 14, 16

Note: Round duct sizes are available only in sizes shown. Border type 5 is only available in steel.

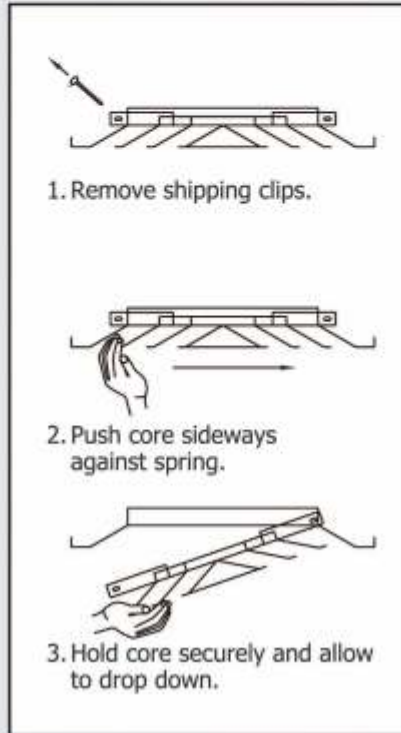
Adjusting Horizontal-to-Vertical Discharge Pattern • TDC, TDC - B



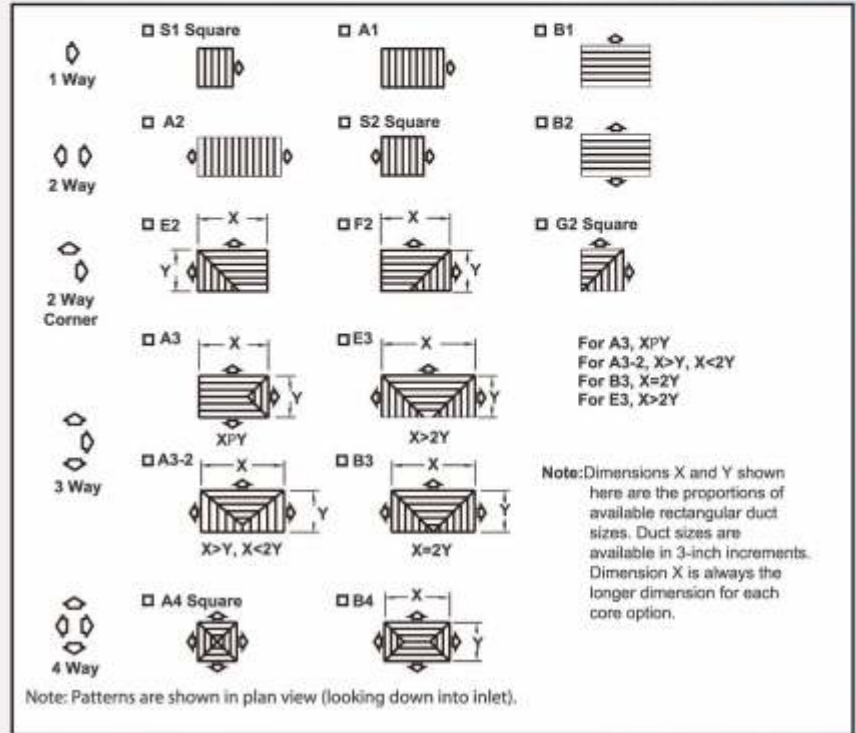


Removing Center Core

Diffusers | Square and Rectangular, Louvered Face | Dimensions



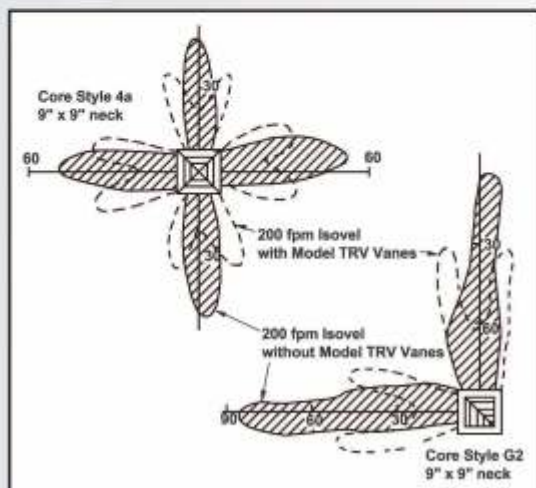
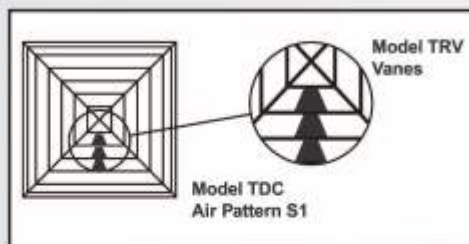
Optional Patterns

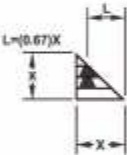
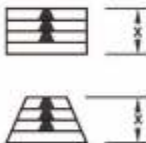


Optional Patterns (continued)

Performance

- The table below shows the quantity and location of Model TRV vanes required per side of the diffuser.
- Throw reduction will be shown in the isovel diagrams.
- Total pressure will be 1.40 times that listed in the diffuser performance table.
- Sound level will be 4 NC higher than that listed in the diffuser performance table.



Dimension X Inches	Quantity of Model TRV Vanes Required (per Side)											
	3	6	9	12	15	18	21	24	27	30	36	48
	-	1	1½	2½	3	4	5	5	6	7	8	11
	-	2	2	3	4	4	5	7	7	8	10	14
	1½	3	4	5	7	8	9	11	12	13	16	22

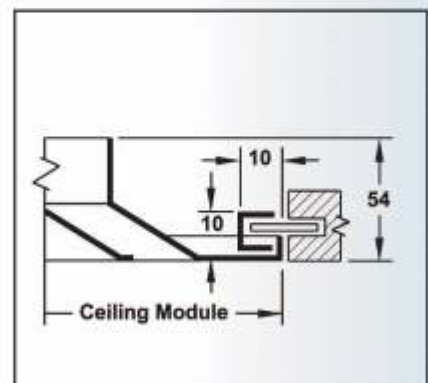
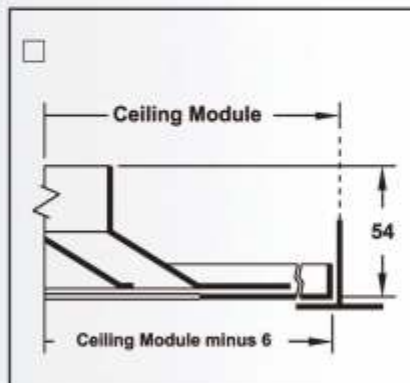
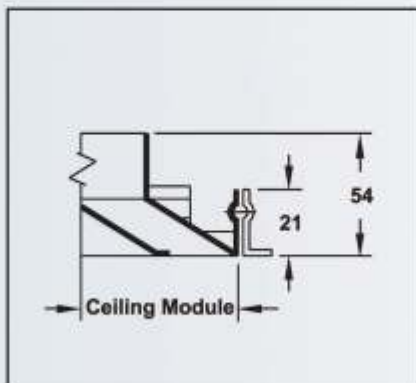
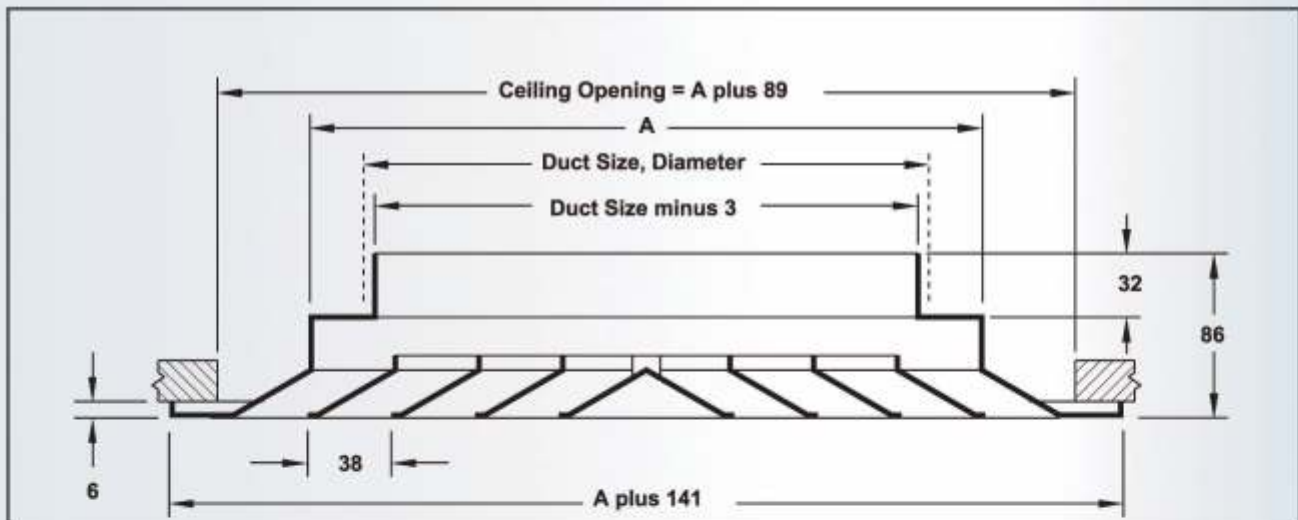
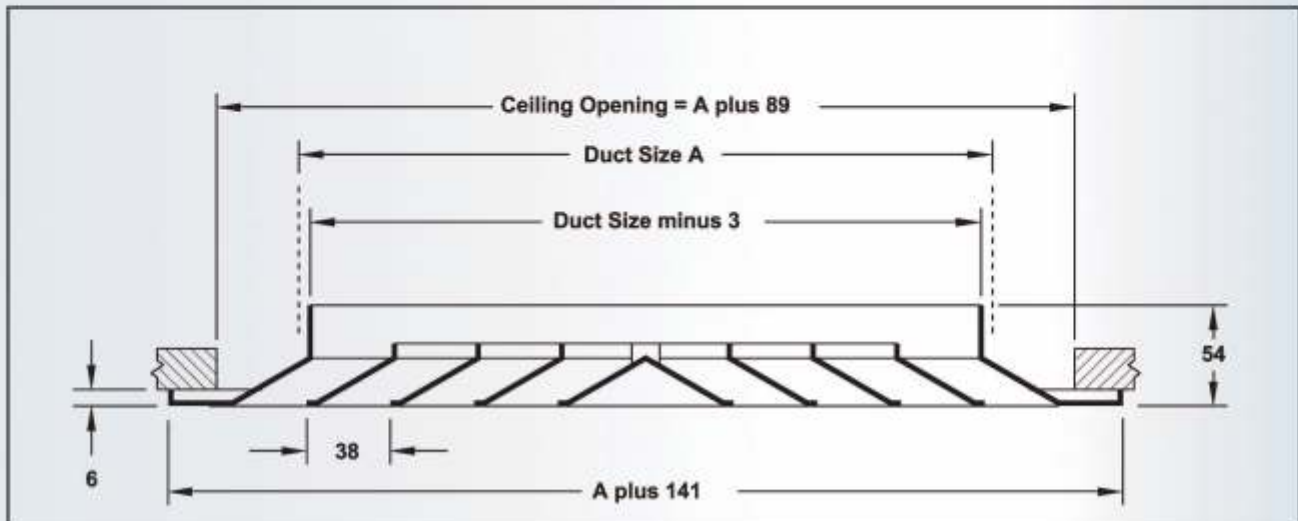


TDC - B

7-16-97

Square and Rectangular Ceiling Diffusers Aluminum • Louvered Face • High Capacity Model:

TDC - B Square, Rectangular or Round Neck



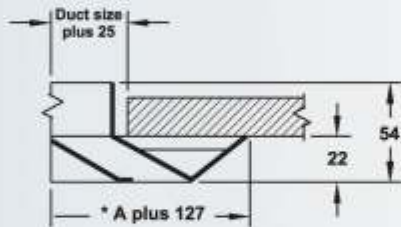
For Dimensions "A" see table on next page.

Dimensions are in millimeters.



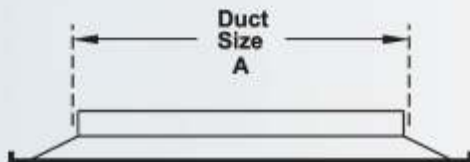
Border Types, Dimensions (Continued)

□ Border Type 6 (Beveled Drop Face)



* **Note:** Dimension A refers to either square/rectangular or round neck diffusers. See drawings below.

Available Duct Sizes, Square and Rectangular Necks



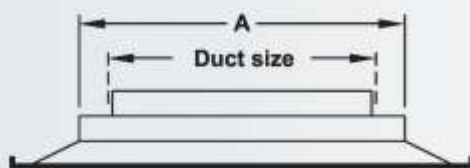
Border Type 1, 6	
Minimum Duct Size A	Maximum Duct Size A
152 x 152	1219 x 1219

Border Type 2, 4		
Available Module Size	Minimum Duct Size A	Maximum Duct Size
A305 x 305	152 x 152	229 x 229
610 x 610	152 x 152	533 x 533
1219 x 610	305 x 305	1067 x 533

Border Type 3		
Available Module Size	Minimum Duct Size A	Maximum Duct Size
A300 x 300	152 x 152	229 x 229
600 x 600	152 x 152	533 x 533
1200 x 600	305 x 305	1143 x 533

***Note:**Duct sizes are available in 76 mm increments only.

Available Duct Sizes, Round Necks



Border Type 1, 6 Dimension	
A	Available Duct Size
152 x 152	152
229 x 229	152, 203
305 x 305	203, 254, 305
381 x 381	152, 203, 254, 305, 356
457 x 457	152, 203, 254, 305, 356, 406

Border Type 2, 4		
Available Module Size	Minimum A	Available Rnd. Duct Size
305 x 305	152 x 152	152
	229 x 229	152, 203
610 x 610	152 x 152	152
	229 x 229	152, 203
	305 x 305	203, 254, 305
	381 x 381	305, 356
	457 x 457	152, 203, 254, 305, 356, 406

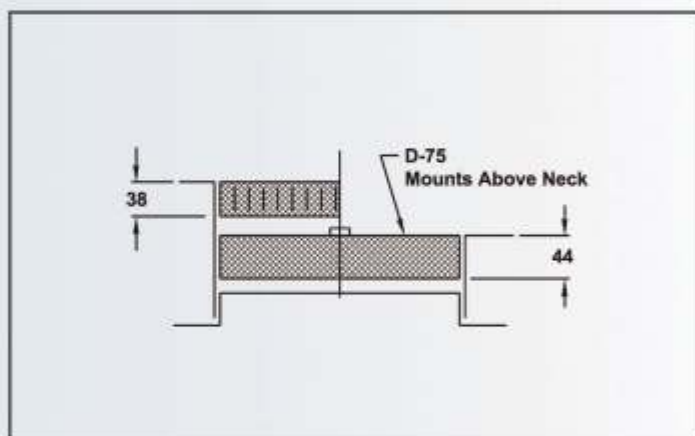
Border Type 3		
Available Module Size	Minimum A	Available Rnd. Duct Size
300 x 300	152 x 152	152
	229 x 229	152, 203
600 x 600	152 x 152	152
	229 x 229	152, 203
	305 x 305	203, 254, 305
	381 x 381	305, 356
	457 x 457	152, 203, 254, 305, 356, 406

***Note:**Round duct sizes are available only in sizes shown.

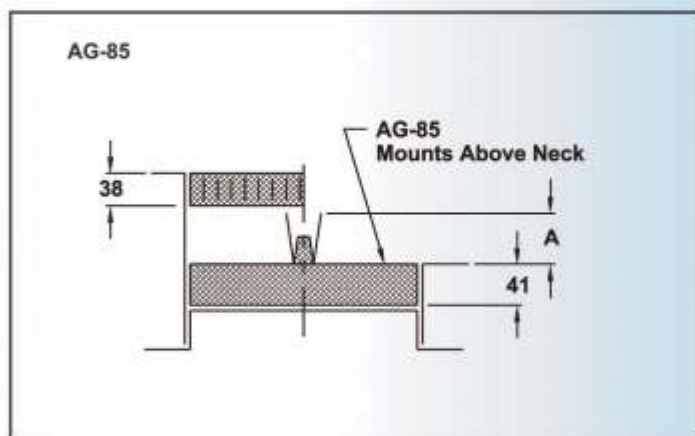
All dimensions are in millimeters.



Accessories (Optional) for Round Neck

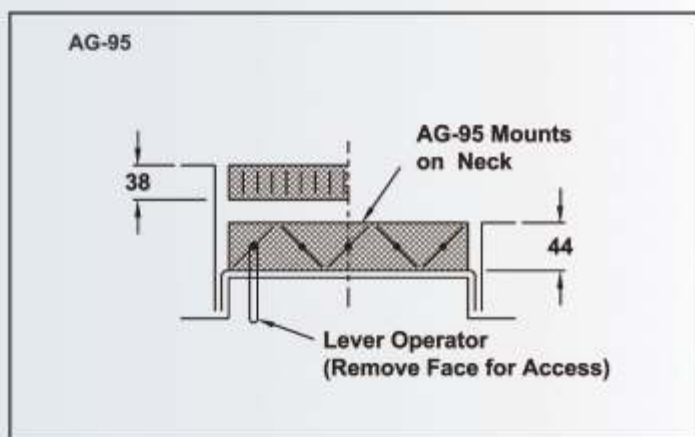


D-75



AG-85

Accessories (Optional) for Rectangular Neck



AG-95

Dimension "A" in millimeters, for Dampers Shown as Above

Accessories	Nominal Round Duct Sizes				
	152	203	254	305	356
□ D-75					
□ AG-85	64	89	114	140	165



Performance Data • Square Neck TDC • Louvered Face • Supply • Horizontal Blow Pattern Diffusers | Square and Rectangular, Louvered Face | Performance Data

		Neck Vel. Vel. Pressure Total Pressure	300 0.006 0.042	400 0.010 0.075	500 0.016 0.117	600 0.022 0.169	700 0.031 0.229	800 0.040 0.300	900 0.050 0.379
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	75 - cfm Throw	100 13 cfm Throw	125 16 cfm Throw	150 23 cfm Throw	175 27 cfm Throw	200 31 cfm Throw	225 34 cfm Throw
6 x 6 0.25 ft ²	S1	X	75 8-10-14	100 9-11-16	125 10-13-18	150 11-14-20	175 12-15-21	200 13-16-23	225 14-17-24
	S2&G2	X & Y	38 4-6-10	50 5-8-12	63 6-10-14	75 8-10-15	88 9-11-16	100 10-12-17	113 10-13-18
	A3	X	28 4-6-9	38 5-7-11	47 6-8-12	56 7-9-13	66 8-10-14	75 9-11-15	84 9-11-16
	A4	X & Y	19 3-5-8	25 4-7-9	31 6-7-10	38 7-8-11	44 7-9-12	50 8-9-13	56 8-10-14
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	169 - cfm Throw	225 15 cfm Throw	281 21 cfm Throw	338 26 cfm Throw	394 30 cfm Throw	450 34 cfm Throw	506 37 cfm Throw
9 x 9 0.56 ft ²	S1	X	169 11-15-21	225 14-17-24	281 16-19-27	338 17-21-30	394 18-23-32	450 20-24-34	506 21-26-36
	S2&G2	X & Y	84 6-9-16	113 8-11-18	141 10-14-20	169 11-16-22	197 13-17-24	225 15-18-26	253 16-19-27
	A3	X	63 8-10-14	84 9-11-16	105 10-13-18	127 11-14-20	148 12-15-21	169 13-16-23	190 14-17-24
	A4	X & Y	42 4-7-12	56 7-10-14	70 8-11-16	84 10-12-17	98 11-13-18	113 11-14-20	127 12-15-21
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	300 - cfm Throw	400 17 cfm Throw	500 23 cfm Throw	600 28 cfm Throw	700 32 cfm Throw	800 35 cfm Throw	900 38 cfm Throw
12 x 12 1.00 ft ²	S1	X	300 15-20-28	400 19-23-32	500 21-25-36	600 23-28-39	700 25-30-43	800 26-32-46	900 28-34-48
	S2&G2	X & Y	150 8-11-21	200 10-15-24	250 13-19-27	300 15-21-30	350 18-23-32	400 20-24-34	450 21-26-36
	A3	X	113 11-13-18	150 12-15-21	188 14-17-24	225 15-18-26	263 16-20-28	300 17-21-30	338 18-23-32
	A4	X & Y	75 6-10-16	100 9-13-19	125 11-15-21	150 13-16-23	175 14-17-25	200 15-19-26	225 16-20-28
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	469 11 cfm Throw	625 19 cfm Throw	781 25 cfm Throw	938 29 cfm Throw	1094 33 cfm Throw	1250 37 cfm Throw	1406 40 cfm Throw
15 x 15 1.56 ft ²	S1	X	469 19-25-35	625 23-29-40	781 26-32-45	938 29-35-49	1094 31-38-53	1250 33-40-57	1406 35-43-60
	S2&G2	X & Y	234 10-14-26	313 13-19-30	391 16-24-34	469 19-26-37	547 22-28-40	625 25-30-43	703 26-32-45
	A3	X	176 13-16-23	234 15-19-27	293 17-21-30	352 19-23-33	410 20-25-35	469 22-27-38	527 23-28-40
	A4	X & Y	117 7-12-20	156 11-16-23	195 14-18-26	234 16-20-28	273 18-22-31	313 19-23-33	352 20-25-35
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	675 12 cfm Throw	900 20 cfm Throw	1125 26 cfm Throw	1350 31 cfm Throw	1575 35 cfm Throw	1800 38 cfm Throw	2025 41 cfm Throw
18 x 18 2.25 ft ²	S1	X	675 23-30-42	900 28-34-48	1125 31-38-54	1350 34-42-59	1575 37-45-64	1800 39-48-68	2025 42-51-73
	S2&G2	X & Y	338 11-17-31	450 15-23-36	563 19-29-41	675 23-31-44	788 27-34-48	900 30-36-51	1013 31-38-54
	A3	X	253 16-20-28	338 18-23-32	422 21-25-36	506 23-28-39	591 24-30-42	675 26-32-45	759 28-34-48
	A4	X & Y	169 9-15-24	225 13-20-28	281 17-22-31	338 20-24-34	394 21-26-37	450 23-28-39	506 24-30-42
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	919 13 cfm Throw	1225 21 cfm Throw	1531 27 cfm Throw	1838 32 cfm Throw	2144 36 cfm Throw	2450 39 cfm Throw	2756 42 cfm Throw
21 x 21 3.06 ft ²	S1	X	919 27-35-49	1225 33-40-56	1531 36-45-63	1838 40-49-69	2144 43-53-75	2450 46-56-80	2756 49-60-85
	S2&G2	X & Y	459 13-20-37	613 18-27-42	766 22-33-47	919 27-37-52	1072 31-40-56	1225 35-42-60	1378 37-45-63
	A3	X	345 19-23-32	459 22-26-37	574 24-30-42	689 26-32-46	804 28-35-49	919 31-37-53	1034 32-40-56
	A4	X & Y	230 10-17-28	306 16-23-32	383 19-26-36	459 23-28-40	536 25-30-43	613 27-32-46	689 28-34-49
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	1200 14 cfm Throw	1600 22 cfm Throw	2000 28 cfm Throw	2400 32 cfm Throw	2800 36 cfm Throw	3200 40 cfm Throw	3600 43 cfm Throw
24 x 24 4.00 ft ²	S1	X	1200 31-39-56	1600 37-46-64	2000 42-51-72	2400 46-56-79	2800 49-60-85	3200 51-64-91	3600 56-68-97
	S2&G2	X & Y	600 15-23-42	800 20-30-48	1000 25-38-54	1200 30-42-59	1400 35-45-64	1600 39-48-68	1800 42-51-72
	A3	X	450 21-26-37	600 25-30-43	750 28-34-48	900 30-37-52	1050 33-40-56	1200 35-43-60	1350 37-45-63
	A4	X & Y	300 12-20-32	400 16-26-37	500 22-29-41	600 26-32-45	700 28-35-49	800 30-37-52	900 32-39-56
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	1875 16 cfm Throw	2500 23 cfm Throw	3125 29 cfm Throw	3750 34 cfm Throw	4375 38 cfm Throw	5000 41 cfm Throw	5625 45 cfm Throw
30 x 30 6.25 ft ²	S1	X	1875 38-49-70	2500 47-57-81	3125 52-64-90	3750 57-70-99	4375 62-75-107	5000 66-81-114	5625 70-86-121
	S2&G2	X & Y	938 19-29-52	1250 25-38-60	1563 32-48-68	1875 38-52-74	2188 44-56-80	2500 49-60-85	2813 52-64-91
	A3	X	703 27-33-46	938 31-38-53	1172 34-42-60	1406 38-46-65	1641 41-50-71	1875 44-53-76	2109 46-57-80
	A4	X & Y	469 15-25-40	625 22-33-46	781 28-37-52	938 33-40-57	1094 35-43-61	1250 38-46-66	1406 40-49-70
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	2700 17 cfm Throw	3600 24 cfm Throw	4500 30 cfm Throw	5400 35 cfm Throw	6300 39 cfm Throw	7200 43 cfm Throw	8100 46 cfm Throw
36 x 36 9.00 ft ²	S1	X	2700 46-59-84	3600 56-68-97	4500 62-76-108	5400 68-84-118	6300 74-90-128	7200 79-97-137	8100 84-103-145
	S2&G2	X & Y	1350 23-34-63	1800 30-46-72	2250 38-52-81	2700 46-63-89	3150 53-68-96	3600 59-72-102	4050 63-77-109
	A3	X	1013 32-39-55	1350 37-45-64	1688 41-51-72	2025 45-55-78	2363 49-60-85	2700 52-64-91	3038 55-68-96
	A4	X & Y	675 18-30-48	900 27-39-56	1125 33-44-62	1350 39-48-68	1575 43-52-74	1800 45-56-79	2025 48-59-83
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	4800 19 cfm Throw	6400 26 cfm Throw	8000 32 cfm Throw	9600 37 cfm Throw	11200 41 cfm Throw	12800 45 cfm Throw	14400 48 cfm Throw
48 x 48 16.00 ft ²	S1	X	4800 61-79-112	6400 74-91-129	8000 83-102-144	9600 91-112-158	11200 99-121-171	12800 105-129-182	14400 112-137-193
	S2&G2	X & Y	2400 30-46-84	3200 41-61-97	4000 51-76-108	4800 61-84-118	5600 71-90-128	6400 79-97-137	7200 84-102-145
	A3	X	1800 43-52-74	2400 49-60-85	3000 55-68-96	3600 60-74-105	4200 65-80-113	4800 70-85-121	5400 74-91-128
	A4	X & Y	1200 24-40-64	1600 36-52-74	2000 44-59-83	2400 52-64-91	2800 57-69-98	3200 61-74-105	3600 64-79-111



Performance Data • Rectangular Neck TDC • Louvered Face • Supply • Horizontal Blow Pattern Diffusers | Square and Rectangular, Louvered Face | Performance Data

		Neck Vel. Vel. Pressure Total Pressure	300 0.006 0.042	400 0.010 0.075	500 0.016 0.117	600 0.022 0.169	700 0.031 0.229	800 0.040 0.300	900 0.050 0.379
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	113 - cfm Throw	150 14 cfm Throw	188 20 cfm Throw	225 25 cfm Throw	263 29 cfm Throw	300 32 cfm Throw	338 35 cfm Throw
6 x 9 0.38 ft.Y	A1&B1	X	113 11-13-18	150 12-15-21	188 14-17-24	225 15-18-26	263 16-20-28	300 17-21-30	338 18-22-32
	A2&B2	X & Y	56 6-9-15	75 8-12-17	94 10-14-19	113 10-14-19	131 13-16-23	150 14-17-25	169 15-18-26
	E2&F2	X	75 7-10-14	100 9-12-16	125 11-13-18	150 12-14-20	175 13-15-22	200 13-16-23	225 14-17-25
		Y	38 4-7-12	50 6-9-14	63 7-11-15	75 9-12-17	88 10-13-18	100 11-14-19	113 12-14-20
	A3	X	47 6-10-14	63 9-11-16	78 10-12-18	94 11-14-19	109 12-15-21	125 13-16-22	141 14-17-23
		Y	19 4-7-11	25 6-9-12	31 7-10-14	38 9-11-15	44 9-11-16	50 10-12-17	56 11-13-18
	A3-2	X	42 6-9-15	56 8-12-17	70 10-14-19	84 12-15-21	98 13-16-23	113 14-17-24	127 15-18-26
		Y	35 4-7-12	47 6-9-14	59 7-11-15	70 9-12-17	82 10-13-18	94 11-14-19	105 12-14-20
	B4	X	38 6-10-14	50 9-11-16	63 10-12-18	75 11-14-19	88 12-15-21	100 13-16-22	113 14-17-23
		Y	19 4-7-11	25 6-9-12	31 7-10-14	38 9-11-15	44 9-11-16	50 10-12-17	56 11-13-18
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	150 - cfm Throw	200 15 cfm Throw	250 21 cfm Throw	300 26 cfm Throw	350 30 cfm Throw	400 33 cfm Throw	450 36 cfm Throw
6 x 12 0.50 ft.Y	A1&B1	X	150 12-15-21	200 14-17-24	250 16-19-27	300 17-21-30	350 19-23-32	400 20-24-34	450 21-26-36
	A2&B2	X & Y	75 7-10-17	100 9-13-20	125 11-16-22	150 13-17-25	175 15-19-27	200 16-20-28	225 17-21-30
	E2&F2	X	113 8-12-16	150 11-13-19	188 12-15-21	225 13-16-23	263 14-18-25	300 15-19-27	338 16-20-28
		Y	38 5-8-14	50 7-10-16	63 9-12-18	75 10-14-19	88 12-15-21	100 13-16-22	113 14-17-23
	A3	X	66 7-11-16	88 10-13-18	109 12-14-20	131 13-16-22	153 14-17-24	175 15-18-26	197 16-19-27
		Y	19 5-8-12	25 7-10-14	31 8-11-16	38 10-12-17	44 11-13-19	50 11-14-20	56 12-15-21
	B3	X	75 10-13-19	100 12-15-22	125 14-17-24	150 15-19-26	175 16-20-28	200 18-22-30	225 19-23-32
		Y	38 5-8-14	50 7-10-16	63 9-12-18	75 10-14-19	88 12-15-21	100 13-16-22	113 14-17-23
	B4	X	56 7-11-16	75 10-13-18	94 12-14-20	113 13-16-22	131 14-17-24	150 15-18-26	169 16-19-27
		Y	19 5-8-12	25 7-10-14	31 8-11-16	38 10-12-17	44 11-13-19	50 11-14-20	56 12-15-21
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	188 - cfm Throw	250 16 cfm Throw	313 22 cfm Throw	375 26 cfm Throw	438 30 cfm Throw	500 34 cfm Throw	563 37 cfm Throw
6 x 15 0.63 ft.Y	A1&B1	X	188 14-17-24	250 16-19-27	313 18-21-30	375 19-24-33	438 21-25-36	500 22-27-38	563 24-29-41
	A2&B2	X & Y	94 7-11-19	125 10-15-22	156 12-18-25	188 15-19-27	219 17-21-30	250 18-22-32	281 19-24-34
	E2&F2	X	150 9-13-18	200 12-15-21	250 14-17-24	300 15-18-26	350 16-20-28	400 17-21-30	450 18-23-32
		Y	38 6-9-15	50 8-11-18	63 10-14-20	75 11-15-21	88 13-16-23	100 14-18-25	113 15-19-26
	A3	X	84 8-12-18	113 11-14-20	141 13-16-23	169 14-18-25	197 15-19-27	225 17-20-29	253 18-21-30
		Y	19 6-8-14	25 8-11-16	31 9-12-18	38 11-14-19	44 12-15-21	50 13-16-22	56 14-17-24
	E3	X	113 12-15-21	150 14-17-24	188 16-19-27	225 17-21-30	263 19-23-32	300 20-24-34	338 21-26-36
		Y	38 6-9-15	50 8-11-18	63 10-14-20	75 11-15-21	88 13-16-23	100 14-18-25	113 15-19-26
	B4	X	75 8-12-18	100 11-14-20	125 13-16-23	150 14-18-25	175 15-19-27	200 17-20-29	225 18-21-30
		Y	19 6-8-14	25 8-11-16	31 9-12-18	38 11-14-19	44 12-15-21	50 13-16-22	56 14-17-24
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	225 - cfm Throw	300 16 cfm Throw	375 22 cfm Throw	450 27 cfm Throw	525 31 cfm Throw	600 34 cfm Throw	675 38 cfm Throw
6 x 18 0.75 ft.Y	A1&B1	X	225 15-18-26	300 17-21-30	375 19-24-33	450 21-26-36	525 23-28-39	600 24-30-42	675 26-32-45
	A2&B2	X & Y	113 8-12-21	150 11-16-25	188 14-19-27	225 16-21-30	263 19-23-32	300 20-25-35	338 21-26-37
	E2&F2	X	188 10-14-20	250 13-16-23	313 15-18-26	375 16-20-28	438 18-22-31	500 19-23-33	563 20-25-35
		Y	38 6-9-17	50 8-13-19	63 10-15-21	75 13-17-23	88 15-18-25	100 16-19-27	113 17-20-29
	A3	X	103 9-14-19	138 12-16-22	172 14-18-25	206 16-19-27	241 17-21-29	275 18-22-31	309 19-23-33
		Y	19 6-9-15	25 8-12-17	31 10-14-19	38 12-15-21	44 13-16-23	50 14-17-24	56 15-18-26
	E3	X	150 13-16-23	200 15-19-27	250 17-21-30	300 19-23-33	350 20-25-35	400 22-27-38	450 23-28-40
		Y	38 6-9-17	50 8-13-19	63 10-15-21	75 13-17-23	88 15-18-25	100 16-19-27	113 17-20-29
	B4	X	94 9-14-19	125 12-16-22	156 14-18-25	188 16-19-27	219 17-21-29	250 18-22-31	281 19-23-33
		Y	19 6-9-15	25 8-12-17	31 10-14-19	38 12-15-21	44 13-16-23	50 14-17-24	56 15-18-26
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	263 - cfm Throw	350 17 cfm Throw	438 23 cfm Throw	525 27 cfm Throw	613 31 cfm Throw	700 35 cfm Throw	788 38 cfm Throw
6 x 21 0.88 ft.Y	A1&B1	X	263 16-20-28	350 19-23-32	438 21-25-36	525 23-28-39	613 25-30-43	700 26-32-45	788 28-34-48
	A2&B2	X & Y	131 9-13-23	175 12-18-27	219 15-21-30	263 18-23-32	306 20-25-35	350 22-27-37	394 23-28-40
	E2&F2	X	225 11-15-22	300 14-18-25	375 16-20-28	450 18-22-31	525 19-23-33	600 21-25-36	675 22-27-38
		Y	38 7-10-18	50 9-14-21	63 11-16-23	75 14-18-25	88 16-19-27	100 17-21-29	113 18-22-31
	A3	X	122 10-15-21	163 13-17-24	203 15-19-27	244 17-21-29	284 18-22-32	325 20-24-34	366 21-25-36
		Y	19 7-10-16	25 9-13-19	31 11-15-21	38 13-16-23	44 14-17-25	50 15-19-26	56 16-20-28
	E3	X	188 14-18-25	250 17-20-29	313 19-23-32	375 20-25-35	438 22-27-38	500 23-29-41	563 25-30-43
		Y	38 7-10-18	50 9-14-21	63 11-16-23	75 14-18-25	88 16-19-27	100 17-21-29	113 18-22-31
	B4	X	113 10-15-21	150 13-17-24	188 15-19-27	225 17-21-29	263 18-22-32	300 20-24-34	338 21-25-36
		Y	19 7-10-16	25 9-13-19	31 11-15-21	38 13-16-23	44 14-17-25	50 15-19-26	56 16-20-28



Diffusers | Square and Rectangular, Louvered Face | Performance Data

Performance Data • Rectangular Neck (continued)

TDC • Louvered Face • Supply • Horizontal Blow Pattern

		Neck Vel. Vel. Pressure Total Pressure	300 0.006 0.042		400 0.010 0.075		500 0.016 0.117		600 0.022 0.169		700 0.031 0.229		800 0.040 0.300		900 0.050 0.379	
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	300 -		400 17		500 23		600 28		700 32		800 35		900 38	
6 x 24 1.00 ft.Y	A1&B1	X	300	17-21-30	400	20-24-34	500	22-27-38	600	24-30-42	700	26-32-45	800	28-34-49	900	30-36-52
	A2&B2	X & Y	150	9-14-25	200	13-19-28	250	16-22-32	300	19-25-35	350	22-27-37	400	23-28-40	450	25-30-43
	E2&F2	X	263	12-16-23	350	15-19-27	438	17-21-30	525	19-23-33	613	21-25-36	700	22-27-38	788	23-28-40
		Y	38	7-11-19	50	10-15-22	63	12-18-25	75	15-19-27	88	17-21-29	100	18-22-31	113	19-23-33
	A3	X	141	11-16-22	188	14-18-26	234	17-20-29	281	18-22-31	328	20-24-34	375	21-26-36	422	22-27-38
		Y	19	7-11-17	25	10-14-20	31	12-16-22	38	14-17-24	44	15-19-26	50	16-20-28	56	17-21-30
	E3	X	225	15-19-27	300	18-22-31	375	20-24-34	450	22-27-38	525	23-29-41	600	25-31-43	675	27-33-46
		Y	38	7-11-19	50	10-15-22	63	12-18-25	75	15-19-27	88	17-21-29	100	18-22-31	113	19-23-33
	B4	X	131	11-16-22	175	14-18-26	219	17-20-29	263	18-22-31	306	20-24-34	350	21-26-36	394	22-27-38
		Y	19	7-11-17	25	10-14-20	31	12-16-22	38	14-17-24	44	15-19-26	50	16-20-28	56	17-21-30
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	375 -		500 18		625 24		750 29		875 33		1000 36		1125 39	
6 x 30 1.25 ft.Y	A1&B1	X	375	19-24-33	500	22-27-38	625	25-30-43	750	27-33-47	875	29-36-51	1000	31-38-54	1125	33-41-58
	A2&B2	X & Y	188	11-16-27	250	14-21-32	313	18-25-35	375	21-27-39	438	24-30-42	500	26-32-45	563	27-34-48
	E2&F2	X	338	13-18-26	450	17-21-30	563	19-24-34	675	21-26-37	788	23-28-40	900	25-30-42	1013	26-32-45
		Y	38	8-12-21	50	11-16-25	63	14-20-28	75	16-21-30	88	19-23-33	100	20-25-35	113	21-26-37
	A3	X	178	12-18-25	238	16-20-29	297	18-23-32	356	20-25-35	416	22-27-38	475	23-29-40	534	25-30-43
		Y	19	8-12-19	25	11-16-22	31	13-18-25	38	16-19-27	44	17-21-29	50	18-22-31	56	19-24-33
	E3	X	300	17-21-30	400	20-24-34	500	22-27-38	600	24-30-42	700	26-32-45	800	28-34-49	900	30-36-51
		Y	38	8-12-21	50	11-16-25	63	14-20-28	75	16-21-30	88	19-23-33	100	20-25-35	113	21-26-37
	B4	X	169	12-18-25	225	16-20-29	281	18-23-32	338	20-25-35	394	22-27-38	450	23-29-40	506	25-30-43
		Y	19	8-12-19	25	11-16-22	31	13-18-25	38	16-19-27	44	17-21-29	50	18-22-31	56	19-24-33
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	225 -		300 16		375 22		450 27		525 31		600 34		675 38	
9 x 12 0.75 ft.Y	A1&B1	X	225	15-18-26	300	17-21-30	375	19-24-33	450	21-26-36	525	23-28-39	600	24-30-42	675	26-32-45
	A2&B2	X & Y	113	8-12-21	150	10-15-21	188	14-19-27	225	16-21-30	263	19-23-32	300	20-25-35	338	21-26-37
	E2&F2	X	141	10-14-20	188	13-16-23	234	15-18-26	281	16-20-28	328	18-22-31	375	19-23-33	422	20-25-35
		Y	84	6-9-17	113	8-13-19	141	10-15-21	169	13-17-23	197	15-18-25	225	16-19-27	253	17-20-29
	A3	X	91	9-14-19	122	12-16-22	152	14-18-25	183	16-19-27	213	17-21-29	244	18-22-31	274	19-23-33
		Y	42	6-9-15	56	8-12-17	70	10-14-19	84	12-15-21	98	13-16-23	113	14-17-24	127	15-18-26
	A3-2	X	75	9-13-21	100	12-17-24	125	15-19-27	150	17-21-30	175	19-23-32	200	20-24-34	225	21-26-37
		Y	75	6-9-17	100	8-13-19	125	10-15-21	150	13-17-23	175	15-18-25	200	16-19-27	225	17-20-29
	B4	X	70	9-14-19	94	12-16-22	117	14-18-25	141	16-19-27	164	17-21-29	188	18-22-31	211	19-23-33
		Y	42	6-9-15	56	8-12-17	70	10-14-19	84	12-15-21	98	13-16-23	113	14-17-24	127	15-18-26
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	281 -		375 17		469 23		563 28		656 32		750 35		844 38	
9 x 15 0.94 ft.Y	A1&B1	X	281	17-20-29	375	19-24-33	469	21-26-37	563	24-29-41	656	25-31-44	750	27-33-47	844	29-35-50
	A2&B2	X & Y	141	9-14-24	188	12-16-22	234	15-22-31	281	18-24-34	328	21-26-36	375	22-27-39	422	24-29-41
	E2&F2	X	197	12-16-23	263	15-18-26	328	17-21-29	394	18-23-32	459	20-24-34	525	21-26-37	591	23-28-39
		Y	84	7-11-19	113	9-14-21	141	12-17-24	169	14-19-26	197	16-20-28	225	18-21-30	253	19-23-32
	A3	X	120	10-15-21	159	14-18-25	199	16-20-28	239	18-21-30	279	19-23-33	319	20-25-35	359	21-26-37
		Y	42	7-10-17	56	9-14-19	70	12-15-21	84	14-17-24	98	15-18-25	113	16-19-27	127	17-20-29
	A3-2	X	117	10-15-24	156	13-19-27	195	16-22-30	234	19-24-33	273	21-25-36	313	22-27-38	352	24-29-41
		Y	82	7-11-19	109	9-14-21	137	12-17-24	164	14-19-26	191	16-20-28	219	18-21-30	246	19-23-32
	B4	X	98	10-15-21	131	14-18-25	164	16-20-28	197	18-21-30	230	19-23-33	263	20-25-35	295	21-26-37
		Y	42	7-10-17	56	9-14-19	70	12-15-21	84	14-17-24	98	15-18-25	113	16-19-27	127	17-20-29
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	338 -		450 18		563 24		675 28		788 32		900 36		1013 39	
9 x 18 1.13 ft.Y	A1&B1	X	338	18-22-32	450	21-26-36	563	24-29-41	675	26-32-45	788	28-34-48	900	30-36-52	1013	32-39-55
	A2&B2	X & Y	169	10-15-26	225	13-20-30	281	17-24-34	338	20-26-37	394	23-28-40	450	25-30-43	506	26-32-45
	E2&F2	X	253	13-17-25	338	16-20-28	422	18-23-32	506	20-25-35	591	22-27-38	675	23-28-40	759	25-30-43
		Y	84	8-12-20	113	10-15-23	141	13-19-26	169	15-20-29	197	18-22-31	225	19-23-33	253	20-25-35
	A3	X	148	11-17-23	197	15-19-27	246	18-21-30	295	19-23-33	345	21-25-36	394	22-27-38	443	23-29-41
		Y	42	8-11-18	56	10-15-21	70	13-17-24	84	15-18-26	98	16-20-28	113	17-21-30	127	18-22-32
	B3	X	169	14-20-28	225	19-23-32	281	21-25-36	338	23-28-39	394	25-30-43	450	26-32-46	506	28-34-48
		Y	84	8-12-20	113	10-15-23	141	13-19-26	169	15-20-29	197	18-22-31	225	19-23-33	253	20-25-35
	B4	X	127	11-17-23	169	15-19-27	211	18-21-30	253	19-23-33	295	21-25-36	338	22-27-38	380	23-29-41
		Y	42	8-11-18	56	10-15-21	70	13-17-24	84	15-18-26	98	16-20-28	113	17-21-30	127	18-22-32



Diffusers | Square and Rectangular, Louvered Face | Performance Data

Performance Data • Rectangular Neck (continued)

TDC • Louvered Face • Supply • Horizontal Blow Pattern

		Neck Vel. Vel. Pressure Total Pressure	300 0.006 0.042	400 0.010 0.075	500 0.016 0.117	600 0.022 0.169	700 0.031 0.229	800 0.040 0.300	900 0.050 0.379
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	394 11	525 18	656 24	788 29	919 33	1050 36	1181 39
9 x 21 1.31 ft ²	A1&B1	X	394 20-24-34	525 23-28-39	656 25-31-44	788 28-34-48	919 30-37-52	1050 32-39-56	1181 34-42-59
	A2&B2	X & Y	197 11-16-28	263 14-22-32	328 18-26-36	394 22-28-40	459 25-30-43	525 27-32-46	591 28-34-49
	E2&F2	X	309 14-19-27	413 18-22-31	516 20-24-34	619 22-27-38	722 23-29-41	825 25-31-43	928 27-33-46
		Y	84 8-12-22	113 11-17-25	141 14-20-28	169 17-22-31	197 19-24-34	225 21-25-36	253 22-27-38
	A3	X	176 12-18-25	234 16-21-29	293 19-23-33	352 21-25-36	410 22-27-39	469 24-29-41	527 25-31-44
		Y	42 8-12-20	56 11-16-23	70 14-18-25	84 16-20-28	98 17-21-30	113 19-23-32	127 20-24-34
	E3	X	225 17-22-30	300 20-25-35	375 23-28-39	450 25-30-43	525 27-33-47	600 29-35-50	675 30-37-53
		Y	84 8-12-22	113 11-17-25	141 14-20-28	169 17-22-31	197 19-24-34	225 21-25-36	253 22-27-38
	B4	X	155 12-18-25	206 16-21-29	258 19-23-33	309 21-25-36	361 22-27-39	413 24-29-41	464 25-31-44
		Y	42 8-12-20	56 11-16-23	70 14-18-25	84 16-20-28	98 17-21-30	113 19-23-32	127 20-24-34
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	450 11	600 19	750 24	900 29	1050 33	1200 37	1350 40
9 x 24 1.50 ft ²	A1&B1	X	450 21-26-36	600 24-30-42	750 27-33-47	900 30-36-52	1050 32-39-56	1200 34-42-60	1350 36-45-63
	A2&B2	X & Y	225 12-17-30	300 15-23-35	375 19-27-39	450 23-30-43	525 27-32-46	600 28-35-49	675 30-37-52
	E2&F2	X	366 15-20-28	488 19-23-33	609 21-26-37	731 23-28-40	853 25-31-43	975 27-33-46	1097 28-35-49
		Y	84 9-13-23	113 12-18-27	141 15-21-30	169 18-23-33	197 21-25-36	225 22-27-38	253 23-29-41
	A3	X	204 13-19-27	272 17-22-31	340 20-25-35	408 22-27-38	476 24-29-41	544 26-31-44	612 27-33-47
		Y	42 9-13-21	56 12-17-24	70 15-19-27	84 17-21-30	98 19-23-32	113 20-24-34	127 21-26-36
	E3	X	281 19-23-33	375 22-27-38	469 24-30-42	563 27-33-46	656 29-35-50	750 31-38-53	844 33-40-56
		Y	84 9-13-23	113 12-18-27	141 15-21-30	169 18-23-33	197 21-25-36	225 22-27-38	253 23-29-41
	B4	X	183 13-19-27	244 17-22-31	305 20-25-35	366 22-27-38	427 24-29-41	488 26-31-44	548 27-33-47
		Y	42 9-13-21	56 12-17-24	70 15-19-27	84 17-21-30	98 19-23-32	113 20-24-34	127 21-26-36
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	563 12	750 19	938 25	1125 30	1313 34	1500 37	1688 41
9 x 30 1.88 ft ²	A1&B1	X	563 24-29-41	750 27-33-47	938 30-37-53	1125 33-41-58	1313 36-44-62	1500 38-47-67	1688 41-50-71
	A2&B2	X & Y	281 13-19-34	375 17-26-39	469 21-31-43	563 26-34-48	656 30-36-51	750 32-39-55	844 34-41-58
	E2&F2	X	478 16-23-32	638 21-26-37	797 24-29-41	956 26-32-45	1116 28-34-49	1275 30-37-52	1434 32-39-55
		Y	84 10-15-26	113 13-20-30	141 17-24-34	169 20-26-37	197 23-28-40	225 25-30-43	253 26-32-45
	A3	X	260 14-21-30	347 19-25-35	434 23-28-39	520 25-30-43	607 27-33-46	694 29-35-50	780 30-37-53
		Y	42 10-15-24	56 13-19-27	70 16-21-30	84 19-24-33	98 21-25-36	113 22-27-38	127 24-29-41
	E3	X	394 21-26-36	525 24-30-42	656 27-33-47	788 30-36-51	919 32-39-56	1050 34-42-59	1181 36-45-63
		Y	84 10-15-26	113 13-20-30	141 17-24-34	169 20-26-37	197 23-28-40	225 25-30-43	253 26-32-45
	B4	X	239 14-21-30	319 19-25-35	398 23-28-39	478 25-30-43	558 27-33-46	638 29-35-50	717 30-37-53
		Y	42 10-15-24	56 13-19-27	70 16-21-30	84 19-24-33	98 21-25-36	113 22-27-38	127 24-29-41
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	675 12	900 20	1125 26	1350 31	1575 35	1800 38	2025 41
9 x 36 2.25 ft ²	A1&B1	X	675 26-32-45	900 30-36-52	1125 33-41-58	1350 36-45-63	1575 39-48-68	1800 42-52-73	2025 45-55-77
	A2&B2	X & Y	338 14-21-37	450 19-28-43	563 24-34-48	675 28-37-52	788 32-40-56	900 35-43-60	1013 37-45-64
	E2&F2	X	591 18-25-35	788 23-28-40	984 26-32-45	1181 28-35-49	1378 31-38-53	1575 33-40-57	1772 35-43-60
		Y	84 11-16-29	113 15-22-33	141 18-26-37	169 22-29-41	197 25-31-44	225 27-33-47	253 29-35-50
	A3	X	316 16-23-33	422 21-27-38	527 25-30-43	633 27-33-47	738 29-36-51	844 31-38-54	949 33-41-58
		Y	42 11-16-26	56 14-21-30	70 18-24-33	84 21-26-36	98 23-28-39	113 24-30-42	127 26-32-45
	E3	X	506 23-28-40	675 27-33-46	844 30-36-51	1013 33-40-56	1181 35-43-61	1350 38-46-65	1519 40-49-69
		Y	84 11-16-29	113 15-22-33	141 18-26-37	169 22-29-41	197 25-31-44	225 27-33-47	253 29-35-50
	B4	X	295 16-23-33	394 21-27-38	492 25-30-43	591 27-33-47	689 29-36-51	788 31-38-54	886 33-41-58
		Y	42 11-16-26	56 14-21-30	70 18-24-33	84 21-26-36	98 23-28-39	113 24-30-42	127 26-32-45
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	375 -	500 18	625 24	750 29	875 33	1000 36	1125 39
12 x 15 1.25 ft ²	A1&B1	X	375 19-24-33	500 22-27-38	625 25-30-43	750 27-33-47	875 29-36-51	1000 31-38-54	1125 33-41-58
	A2&B2	X & Y	188 46-707	250 14-21-32	313 18-25-35	375 21-27-39	438 24-30-42	500 26-32-45	563 27-34-48
	E2&F2	X	225 13-18-26	300 17-21-30	375 19-24-34	450 21-26-37	525 23-28-40	600 25-30-42	675 26-32-45
		Y	150 8-12-21	200 11-16-25	250 14-20-28	300 16-21-30	350 19-23-33	400 20-25-35	450 21-26-37
	A3	X	150 12-18-25	200 16-20-29	250 18-23-32	300 20-25-35	350 22-27-38	400 23-29-40	450 25-30-43
		Y	75 8-12-19	100 11-16-22	125 13-18-25	150 16-19-27	175 17-21-29	200 18-22-31	225 19-24-33
	A3-2	X	117 11-17-27	156 15-22-31	195 19-25-35	234 22-27-38	273 24-29-42	313 26-31-44	352 27-33-47
		Y	129 8-12-21	172 11-16-25	215 14-20-28	258 16-21-30	301 19-23-33	344 20-25-35	387 21-26-37
	B4	X	113 12-18-25	150 16-20-29	188 18-23-32	225 20-25-35	263 22-27-38	300 23-29-40	338 25-30-43
		Y	75 8-12-19	100 11-16-22	125 13-18-25	150 16-19-27	175 17-21-29	200 18-22-31	225 19-24-33



Diffusers | Square and Rectangular, Louvered Face | Performance Data

Performance Data • Rectangular Neck (continued)

TDC • Louvered Face • Supply • Horizontal Blow Pattern

		Neck Vel. Vel. Pressure Total Pressure	300 0.006 0.042		400 0.010 0.075		500 0.016 0.117		600 0.022 0.169		700 0.031 0.229		800 0.040 0.300		900 0.050 0.379	
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	450 11		600 19		750 24		900 29		1050 33		1200 37		1350 40	
12 x 18 ft.Y	A1&B1	X	450	21-26-36	600	24-30-42	750	27-33-47	900	30-36-52	1050	32-39-56	1200	34-42-60	1350	36-45-63
	A2&B2	X & Y	225	12-17-30	300	15-23-35	375	19-27-39	450	23-30-43	525	27-32-46	600	28-35-49	675	30-37-52
	E2&F2	X	300	15-20-28	400	19-23-33	500	21-26-37	600	23-28-40	700	25-31-43	800	27-33-46	900	28-35-49
		Y	150	9-13-23	200	12-18-27	250	15-21-30	300	18-23-33	350	21-25-36	400	22-27-38	450	23-29-41
	A3	X	188	13-19-27	250	17-22-31	313	20-25-35	375	22-27-38	438	24-29-41	500	26-31-44	563	27-33-47
		Y	75	9-13-21	100	12-17-24	125	15-19-27	150	17-21-30	175	19-23-32	200	20-24-34	225	21-26-36
	A3-2	X	169	12-19-30	225	17-24-34	281	21-27-38	338	24-30-42	394	26-32-46	450	28-34-49	506	30-37-52
		Y	141	9-13-23	188	12-18-27	234	15-21-30	281	18-23-33	328	21-25-36	375	22-27-38	422	23-29-41
	B4	X	150	13-19-27	200	17-22-31	250	20-25-35	300	22-27-38	350	24-29-41	400	26-31-44	450	27-33-47
		Y	75	9-13-21	100	12-17-24	125	15-19-27	150	17-21-30	175	19-23-32	200	20-24-34	225	21-26-36
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	525 12		700 19		875 25		1050 30		1225 34		1400 37		1575 40	
12 x 21 ft.Y	A1&B1	X	525	23-28-39	700	26-32-45	875	29-36-51	1050	32-39-56	1225	35-43-60	1400	37-45-64	1575	39-48-68
	A2&B2	X & Y	263	12-19-32	350	17-25-37	438	21-30-42	525	25-32-46	613	29-35-50	700	31-37-53	788	32-40-56
	E2&F2	X	375	16-22-31	500	21-25-36	625	23-28-40	750	25-31-43	875	27-33-47	1000	29-36-50	1125	31-38-53
		Y	150	10-14-25	200	13-19-29	250	16-23-33	300	19-25-36	350	22-27-39	400	24-29-41	450	25-31-44
	A3	X	225	14-21-29	300	19-24-34	375	22-27-38	450	24-29-41	525	26-32-45	600	28-34-48	675	29-36-51
		Y	75	9-14-23	100	13-19-26	125	16-21-29	150	19-23-32	175	20-25-35	200	21-26-37	225	23-28-39
	A3-2	X	230	13-20-32	306	18-26-37	383	22-29-42	459	26-32-46	536	28-35-49	613	30-37-53	689	32-39-56
		Y	148	10-14-25	197	13-19-29	246	16-23-33	295	19-25-36	345	22-27-39	394	24-29-41	443	25-31-44
	B4	X	188	14-21-29	250	19-24-34	313	22-27-38	375	24-29-41	438	26-32-45	500	28-34-48	563	29-36-51
		Y	75	9-14-23	100	13-19-26	125	16-21-29	150	19-23-32	175	20-25-35	200	21-26-37	225	23-28-39
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	600 12		800 20		1000 25		1200 30		1400 34		1600 38		1800 41	
12 x 24 ft.Y	A1&B1	X	600	24-30-42	800	28-34-49	1000	31-38-54	1200	34-42-60	1400	37-45-64	1600	40-49-69	1800	42-52-73
	A2&B2	X & Y	300	13-20-35	400	18-27-40	500	22-32-45	600	27-35-49	700	31-37-53	800	33-40-57	900	35-43-60
	E2&F2	X	450	17-23-33	600	22-27-38	750	25-30-42	900	27-33-46	1050	29-36-50	1200	31-38-54	1350	33-40-57
		Y	150	10-15-27	200	14-21-31	250	17-25-35	300	21-27-38	350	24-29-41	400	26-31-44	450	27-33-47
	A3	X	263	15-22-31	350	20-26-36	438	23-29-40	525	26-31-44	613	28-34-48	700	30-36-51	788	31-38-54
		Y	75	10-15-24	100	14-20-28	125	17-22-31	150	20-24-34	175	21-26-37	200	23-28-40	225	24-30-42
	B3	X	300	19-26-37	400	25-30-43	500	28-34-48	600	30-37-53	700	33-40-57	800	35-43-61	900	37-46-65
		Y	150	10-15-27	200	14-21-31	250	17-25-35	300	21-27-38	350	24-29-41	400	26-31-44	450	27-33-47
	B4	X	225	15-22-31	300	20-26-36	375	23-29-40	450	26-31-44	525	28-34-48	600	30-36-51	675	31-38-54
		Y	75	10-15-24	100	14-20-28	125	17-22-31	150	20-24-34	175	21-26-37	200	23-28-40	225	24-30-42
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	750 13		1000 20		1250 26		1500 31		1750 35		2000 38		2250 41	
12 x 30 ft.Y	A1&B1	X	750	27-33-47	1000	31-38-54	1250	35-43-61	1500	38-47-67	1750	42-51-72	2000	44-54-77	2250	47-58-82
	A2&B2	X & Y	375	15-22-39	500	20-30-45	625	25-35-50	750	30-39-55	875	34-42-59	1000	37-45-63	1125	39-48-67
	E2&F2	X	600	19-26-37	800	25-30-42	1000	27-34-47	1200	30-37-52	1400	32-40-56	1600	35-42-60	1800	37-45-64
		Y	150	11-17-30	200	15-23-35	250	19-28-39	300	23-30-43	350	27-33-46	400	29-35-50	450	30-37-53
	A3	X	338	17-25-35	450	22-29-40	563	26-32-45	675	29-35-50	788	31-38-53	900	33-40-57	1013	35-43-61
		Y	75	11-17-27	100	15-22-31	125	19-25-35	150	22-27-38	175	24-29-41	200	26-31-44	225	27-33-47
	E3	X	450	24-30-42	600	28-34-49	750	31-38-54	900	34-42-59	1050	37-45-64	1200	40-49-69	1350	42-51-73
		Y	150	11-17-30	200	15-23-35	250	19-28-39	300	23-30-43	350	27-33-46	400	29-35-50	450	30-37-53
	B4	X	300	17-25-35	400	22-29-40	500	26-32-45	600	29-35-50	700	31-38-53	800	33-40-57	900	35-43-61
		Y	75	11-17-27	100	15-22-31	125	19-25-35	150	22-27-38	175	24-29-41	200	26-31-44	225	27-33-47
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	900 13		1200 21		1500 27		1800 31		2100 36		2400 39		2700 42	
12 x 36 ft.Y	A1&B1	X	900	30-36-52	1200	34-42-60	1500	38-47-67	1800	42-52-73	2100	45-56-79	2400	49-60-84	2700	52-63-89
	A2&B2	X & Y	450	16-24-43	600	22-33-49	750	27-39-55	900	33-43-60	1050	37-46-65	1200	40-49-69	1350	43-52-74
	E2&F2	X	750	21-28-40	1000	27-33-46	1250	30-37-52	1500	33-40-57	1750	36-43-62	2000	38-46-66	2250	40-49-70
		Y	150	13-19-33	200	17-25-38	250	21-30-43	300	25-33-47	350	29-36-51	400	31-38-54	450	33-41-58
	A3	X	413	18-27-38	550	24-31-44	688	29-35-50	825	31-38-54	963	34-41-59	1100	36-44-63	1238	38-47-66
		Y	75	12-19-30	100	17-24-34	125	21-27-38	150	24-30-42	175	26-32-45	200	28-34-49	225	30-36-52
	E3	X	600	26-33-46	800	31-38-53	1000	34-42-59	1200	38-46-65	1400	41-50-70	1600	43-53-75	1800	46-56-80
		Y	150	13-19-33	200	17-25-38	250	21-30-43	300	25-33-47	350	29-36-51	400	31-38-54	450	33-41-58
	B4	X	375	18-27-38	500	24-31-44	625	29-35-50	750	31-38-54	875	34-41-59	1000	36-44-63	1125	38-47-66
		Y	75	12-19-30	100	17-24-34	125	21-27-38	150	24-30-42	175	26-32-45	200	28-34-49	225	30-36-52



Diffusers | Square and Rectangular, Louvered Face | Performance Data

Performance Data • Rectangular Neck (continued)

TDC • Louvered Face • Supply • Horizontal Blow Pattern

		Neck Vel. Vel. Pressure Total Pressure	300 0.006 0.042	400 0.010 0.075	500 0.016 0.117	600 0.022 0.169	700 0.031 0.229	800 0.040 0.300	900 0.050 0.379
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	1200 14	1600 22	2000 28	2400 32	2800 36	3200 40	3600 43
12 x 48 4.00 ft.Y	A1&B1	X	1200 34-42-60	1600 40-49-69	2000 44-54-77	2400 49-60-84	2800 53-64-91	3200 56-69-97	3600 60-73-103
	A2&B2	X & Y	600 19-28-49	800 25-38-57	1000 31-45-63	1200 38-49-69	1400 43-53-75	1600 46-57-80	1800 49-60-85
	E2&F2	X	1050 24-33-46	1400 31-38-54	1750 35-42-60	2100 38-46-66	2450 41-50-71	2800 44-54-76	3150 46-57-81
		Y	150 15-22-38	200 19-29-44	250 24-35-50	300 29-38-54	350 34-41-59	400 36-44-63	450 38-47-66
	A3	X	563 21-31-44	750 28-36-51	938 33-40-57	1125 36-44-63	1313 39-48-68	1500 42-51-72	1688 44-54-77
		Y	75 14-21-34	100 19-28-40	125 24-31-44	150 28-34-49	175 30-37-52	200 32-40-56	225 34-42-59
	E3	X	900 30-38-53	1200 35-43-61	1500 40-49-69	1800 43-53-75	2100 47-57-81	2400 50-61-87	2700 53-65-92
		Y	150 15-22-38	200 19-29-44	250 24-35-50	300 29-38-54	350 34-41-59	400 36-44-63	450 38-47-66
	B4	X	525 21-31-44	700 28-36-51	875 33-40-57	1050 36-44-63	1225 39-48-68	1400 42-51-72	1575 44-54-77
		Y	75 14-21-34	100 19-28-40	125 24-31-44	150 28-34-49	175 30-37-52	200 32-40-56	225 34-42-59
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	563 12	750 19	938 25	1125 30	1313 34	1500 37	1688 41
15 x 18 1.88 ft.Y	A1&B1	X	563 24-29-41	750 27-33-47	938 30-37-53	1125 33-41-58	1313 36-44-62	1500 38-47-67	1688 41-50-71
	A2&B2	X & Y	281 13-19-34	375 17-26-39	469 21-31-43	563 26-34-48	656 30-36-51	750 32-39-55	844 34-41-58
	E2&F2	X	328 16-23-32	438 21-26-37	547 24-29-41	656 26-32-45	766 28-34-49	875 30-37-52	984 32-39-55
		Y	234 10-15-26	313 13-20-30	391 17-24-34	469 20-26-37	547 23-28-40	625 25-30-43	703 26-32-45
	A3	X	223 14-21-30	297 19-25-35	371 23-28-39	445 25-30-43	520 27-33-46	594 29-35-50	668 30-37-53
		Y	117 10-15-24	156 13-19-27	195 16-21-30	234 19-24-33	273 21-25-36	313 22-27-38	352 24-29-41
	A3-2	X	169 14-21-33	225 19-27-38	281 23-30-43	338 27-33-47	394 29-36-51	450 31-38-54	506 33-41-58
		Y	197 10-15-26	263 13-20-30	328 17-24-34	394 20-26-37	459 23-28-40	525 25-30-43	591 26-32-45
	B4	X	164 14-21-30	219 19-25-35	273 23-28-39	328 25-30-43	383 27-33-46	438 29-35-50	492 30-37-53
		Y	117 10-15-24	156 13-19-27	195 16-21-30	234 19-24-33	273 21-25-36	313 22-27-38	352 24-29-41
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	656 12	875 20	1094 26	1313 30	1531 34	1750 38	1969 41
15 x 21 2.19 ft.Y	A1&B1	X	656 25-31-44	875 29-36-51	1094 33-40-57	1313 36-44-62	1531 39-48-67	1750 42-51-72	1969 44-54-76
	A2&B2	X & Y	328 14-21-36	438 19-28-42	547 23-33-47	656 28-36-51	766 32-39-55	875 34-42-59	984 36-44-63
	E2&F2	X	422 18-24-34	563 23-28-40	703 26-31-44	844 28-34-49	984 30-37-53	1125 32-40-56	1266 34-42-60
		Y	234 11-16-28	313 14-21-33	391 18-26-37	469 21-28-40	547 25-31-43	625 27-33-46	703 28-35-49
	A3	X	270 16-23-33	359 21-27-38	449 24-30-42	539 27-33-46	629 29-35-50	719 31-38-53	809 33-40-57
		Y	117 11-16-25	156 14-21-29	195 18-23-33	234 21-25-36	273 22-27-39	313 24-29-41	352 25-31-44
	A3-2	X	230 15-22-36	306 20-29-42	383 25-33-46	459 29-36-51	536 32-39-55	613 34-42-59	689 36-44-62
		Y	213 11-16-28	284 14-21-33	355 18-26-37	427 21-28-40	498 25-31-43	569 27-33-46	640 28-35-49
	B4	X	211 16-23-33	281 21-27-38	352 24-30-42	422 27-33-46	492 29-35-50	563 31-38-53	633 33-40-57
		Y	117 11-16-25	156 14-21-29	195 18-23-33	234 21-25-36	273 22-27-39	313 24-29-41	352 25-31-44
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	750 13	1000 20	1250 26	1500 31	1750 35	2000 38	2250 41
15 x 24 2.50 ft.Y	A1&B1	X	750 27-33-47	1000 31-38-54	1250 35-43-61	1500 38-47-67	1750 42-51-72	2000 44-54-77	2250 47-58-82
	A2&B2	X & Y	375 15-22-39	500 20-30-45	625 25-35-50	750 30-39-55	875 34-42-59	1000 37-45-63	1125 39-48-67
	E2&F2	X	516 19-26-37	688 25-30-42	859 27-34-47	1031 30-37-52	1203 32-40-56	1375 35-42-60	1547 37-45-64
		Y	234 11-17-30	313 15-23-35	391 19-28-39	469 23-30-43	547 27-33-46	625 29-35-50	703 30-37-53
	A3	X	316 17-25-35	422 22-29-40	527 26-32-45	633 29-35-50	738 31-38-53	844 33-40-57	949 35-43-61
		Y	117 11-17-27	156 15-22-31	195 19-25-35	234 22-27-38	273 24-29-41	313 26-31-44	352 27-33-47
	A3-2	X	300 16-24-38	400 21-31-44	500 27-35-50	600 31-38-54	700 34-42-59	800 36-44-63	900 38-47-67
		Y	225 11-17-30	300 15-23-35	375 19-28-39	450 23-30-43	525 27-33-46	600 29-35-50	675 30-37-53
	B4	X	258 17-25-35	344 22-29-40	430 26-32-45	516 29-35-50	602 31-38-53	688 33-40-57	773 35-43-61
		Y	117 11-17-27	156 15-22-31	195 19-25-35	234 22-27-38	273 24-29-41	313 26-31-44	352 27-33-47
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	938 13	1250 21	1563 27	1875 32	2188 36	2500 39	2813 42
15 x 30 3.13 ft.Y	A1&B1	X	938 30-37-53	1250 35-43-61	1563 39-48-68	1875 43-53-74	2188 46-57-80	2500 50-61-86	2813 53-64-91
	A2&B2	X & Y	469 17-25-43	625 22-33-50	781 28-40-56	938 33-43-61	1094 38-47-66	1250 41-50-71	1406 43-53-75
	E2&F2	X	703 21-29-41	938 27-34-47	1172 31-38-53	1406 34-41-58	1641 36-44-63	1875 39-47-67	2109 41-50-71
		Y	234 13-19-34	313 17-26-39	391 21-31-44	469 26-34-48	547 30-37-52	625 32-39-55	703 34-42-59
	A3	X	410 19-28-39	547 25-32-45	684 29-36-51	820 32-39-55	957 35-42-60	1094 37-45-64	1230 39-48-68
		Y	117 13-19-30	156 17-25-35	195 21-28-39	234 25-30-43	273 27-33-46	313 29-35-50	352 30-37-53
	B3	X	469 24-33-47	625 31-38-54	781 35-42-60	938 38-47-66	1094 41-50-71	1250 44-54-76	1406 47-57-81
		Y	234 13-19-34	313 17-26-39	391 21-31-44	469 26-34-48	547 30-37-52	625 32-39-55	703 34-42-59
	B4	X	352 19-28-39	469 25-32-45	586 29-36-51	703 32-39-55	820 35-42-60	938 37-45-64	1055 39-48-68
		Y	117 13-19-30	156 17-25-35	195 21-28-39	234 25-30-43	273 27-33-46	313 29-35-50	352 30-37-53



Diffusers | Square and Rectangular, Louvered Face | Performance Data

Performance Data • Rectangular Neck (continued)

TDC • Louvered Face • Supply • Horizontal Blow Pattern

		Neck Vel. Vel. Pressure Total Pressure	300 0.006 0.042	400 0.010 0.075	500 0.016 0.117	600 0.022 0.169	700 0.031 0.229	800 0.040 0.300	900 0.050 0.379
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	1125 14	1500 22	1875 27	2250 32	2625 36	3000 40	3375 43
15 x 36 3.75 ftY	A1&B1	X	1125 33-41-58	1500 38-47-67	1875 43-53-74	2250 47-58-82	2625 51-62-88	3000 54-67-94	3375 58-71-100
	A2&B2	X & Y	563 18-27-48	750 24-36-55	938 30-43-61	1125 36-48-67	1313 42-51-73	1500 45-55-78	1688 48-58-82
	E2&F2	X	891 23-32-45	1188 30-37-52	1484 34-41-58	1781 37-45-64	2078 40-49-69	2375 42-52-74	2672 45-55-78
		Y	234 14-21-37	313 19-28-43	391 23-34-48	469 28-37-53	547 33-40-57	625 35-43-61	703 37-45-64
	A3	X	504 20-30-43	672 27-35-50	840 32-39-55	1008 35-43-61	1176 38-46-66	1344 40-50-70	1512 43-53-74
		Y	117 14-21-33	156 18-27-38	195 23-30-43	234 27-33-47	273 29-36-51	313 31-38-54	352 33-41-58
	E3	X	656 29-36-51	875 34-42-59	1094 38-47-66	1313 42-51-73	1531 45-56-79	1750 49-59-84	1969 51-63-89
		Y	234 14-21-37	313 19-28-43	391 23-34-48	469 28-37-53	547 33-40-57	625 35-43-61	703 37-45-64
	B4	X	445 20-30-43	594 27-35-50	742 32-39-55	891 35-43-61	1039 38-46-66	1188 40-50-70	1336 43-53-74
		Y	117 14-21-33	156 18-27-38	195 23-30-43	234 27-33-47	273 29-36-51	313 31-38-54	352 33-41-58
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	1500 15	2000 23	2500 28	3000 33	3500 37	4000 41	4500 44
15 x 48 5.00 ftY	A1&B1	X	1500 38-47-67	2000 44-54-77	2500 50-61-86	3000 54-67-94	3500 59-72-102	4000 63-77-109	4500 67-82-115
	A2&B2	X & Y	750 21-32-55	1000 28-42-63	1250 35-50-71	1500 42-55-78	1750 48-59-84	2000 52-63-90	2250 55-67-95
	E2&F2	X	1266 27-37-52	1688 35-42-60	2109 39-47-67	2531 42-52-74	2953 46-56-79	3375 49-60-85	3797 52-64-90
		Y	234 16-24-43	313 22-32-50	391 27-39-55	469 32-43-61	547 38-46-66	625 40-50-70	703 43-53-74
	A3	X	691 24-35-50	922 31-40-57	1152 37-45-64	1383 40-50-70	1613 44-53-76	1844 47-57-81	2074 50-61-86
		Y	117 16-24-38	156 21-31-44	195 27-35-50	234 31-38-54	273 34-41-59	313 36-44-63	352 38-47-67
	E3	X	1031 34-42-59	1375 40-49-69	1719 44-54-77	2063 49-59-84	2406 52-64-91	2750 56-69-97	3094 59-73-103
		Y	234 16-24-43	313 22-32-50	391 27-39-55	469 32-43-61	547 38-46-66	625 40-50-70	703 43-53-74
	B4	X	633 24-35-50	844 31-40-57	1055 37-45-64	1266 40-50-70	1477 44-53-76	1688 47-57-81	1898 50-61-86
		Y	117 16-24-38	156 21-31-44	195 27-35-50	234 31-38-54	273 34-41-59	313 36-44-63	352 38-47-67
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	788 13	1050 20	1313 26	1575 31	1838 35	2100 39	2363 42
18 x 21 2.63 ftY	A1&B1	X	788 28-34-48	1050 32-39-56	1313 36-44-62	1575 39-48-68	1838 43-52-74	2100 45-56-79	2363 48-59-84
	A2&B2	X & Y	394 15-23-40	525 20-30-46	656 25-36-51	788 30-40-56	919 35-43-61	1050 37-46-65	1181 40-49-69
	E2&F2	X	450 19-27-38	600 25-31-43	750 28-34-49	900 31-38-53	1050 33-41-58	1200 36-43-62	1350 38-46-65
		Y	338 12-18-31	450 16-24-36	563 20-28-40	675 24-31-44	788 27-34-47	900 29-36-51	1013 31-38-54
	A3	X	309 17-25-36	413 23-29-41	516 27-33-46	619 29-36-51	722 32-39-55	825 34-41-59	928 36-44-62
		Y	169 12-17-28	225 15-23-32	281 19-25-36	338 23-28-39	394 25-30-42	450 26-32-45	506 28-34-48
	A3-2	X	230 16-25-39	306 22-32-46	383 27-36-51	459 32-39-56	536 35-43-60	613 37-46-64	689 39-48-68
		Y	279 12-18-31	372 16-24-36	465 20-28-40	558 24-31-44	651 27-34-47	744 29-36-51	837 31-38-54
	B4	X	225 17-25-36	300 23-29-41	375 27-33-46	450 29-36-51	525 32-39-55	600 34-41-59	675 36-44-62
		Y	169 12-17-28	225 15-23-32	281 19-25-36	338 23-28-39	394 25-30-42	450 26-32-45	506 28-34-48
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	900 13	1200 21	1500 27	1800 31	2100 36	2400 39	2700 42
18 x 24 3.00 ftY	A1&B1	X	900 30-36-52	1200 34-42-60	1500 38-47-67	1800 42-52-73	2100 45-56-79	2400 49-60-84	2700 52-63-89
	A2&B2	X & Y	450 16-24-43	600 22-33-49	750 27-39-55	900 33-43-60	1050 37-46-65	1200 40-49-69	1350 43-52-74
	E2&F2	X	563 21-28-40	750 27-33-46	938 30-37-52	1125 33-40-57	1313 36-43-62	1500 38-46-66	1688 40-49-70
		Y	338 13-19-33	450 17-25-38	563 21-30-43	675 25-33-47	788 29-36-51	900 31-38-54	1013 33-41-58
	A3	X	366 18-27-38	488 24-31-44	609 29-35-50	731 31-38-54	853 34-41-59	975 36-44-63	1097 38-47-66
		Y	169 12-19-30	225 17-24-34	281 21-27-38	338 24-30-42	394 26-32-45	450 28-34-49	506 30-36-52
	A3-2	X	300 18-26-42	400 23-34-49	500 29-38-54	600 34-42-60	700 37-46-64	800 40-49-69	900 42-52-73
		Y	300 13-19-33	400 17-25-38	500 21-30-43	600 25-33-47	700 29-36-51	800 31-38-54	900 33-41-58
	B4	X	281 18-27-38	375 24-31-44	469 29-35-50	563 31-38-54	656 34-41-59	750 36-44-63	844 38-47-66
		Y	169 12-19-30	225 17-24-34	281 21-27-38	338 24-30-42	394 26-32-45	450 28-34-49	506 30-36-52
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	1125 14	1500 22	1875 27	2250 32	2625 36	3000 40	3375 43
18 x 30 3.75 ftY	A1&B1	X	1125 33-41-58	1500 38-47-67	1875 43-53-74	2250 47-58-82	2625 51-62-88	3000 54-67-94	3375 58-71-100
	A2&B2	X & Y	563 18-27-48	750 24-36-55	938 30-43-61	1125 36-48-67	1313 42-51-73	1500 45-55-78	1688 48-58-82
	E2&F2	X	788 23-32-45	1050 30-37-52	1313 34-41-58	1575 37-45-64	1838 40-49-69	2100 42-52-74	2363 45-55-78
		Y	338 14-21-37	450 19-28-43	563 23-34-48	675 28-37-53	788 33-40-57	900 35-43-61	1013 37-45-64
	A3	X	478 20-30-43	638 27-35-50	797 32-39-55	956 35-43-61	1116 38-46-66	1275 40-50-70	1434 43-53-74
		Y	169 14-21-33	225 18-27-38	281 23-30-43	338 27-33-47	394 29-36-51	450 31-38-54	506 33-41-58
	A3-2	X	469 20-29-47	625 26-38-54	781 33-43-61	938 38-47-67	1094 42-51-72	1250 44-54-77	1406 47-58-82
		Y	328 14-21-37	438 19-28-43	547 23-34-48	656 28-37-53	766 33-40-57	875 35-43-61	984 37-45-64
	B4	X	394 20-30-43	525 27-35-50	656 32-39-55	788 35-43-61	919 38-46-66	1050 40-50-70	1181 43-53-74
		Y	169 14-21-33	225 18-27-38	281 23-30-43	338 27-33-47	394 29-36-51	450 31-38-54	506 33-41-58



Diffusers | Square and Rectangular, Louvered Face | Performance Data

Performance Data • Rectangular Neck (continued)

TDC • Louvered Face • Supply • Horizontal Blow Pattern

		Neck Vel. Vel. Pressure Total Pressure	300 0.006 0.042	400 0.010 0.075	500 0.016 0.117	600 0.022 0.169	700 0.031 0.229	800 0.040 0.300	900 0.050 0.379
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	1350 15	1800 22	2250 28	2700 33	3150 37	3600 40	4050 43
18 x 36 4.50 ft.Y	A1&B1	X	1350 36-45-63	1800 42-52-73	2250 47-58-82	2700 52-63-89	3150 56-68-97	3600 60-73-103	4050 63-77-109
	A2&B2	X & Y	675 20-30-52	900 27-40-60	1125 33-48-67	1350 40-52-74	1575 46-56-80	1800 49-60-85	2025 52-64-90
	E2&F2	X	1013 25-35-49	1350 33-40-57	1688 37-45-64	2025 40-49-70	2363 43-53-75	2700 46-57-81	3038 49-60-85
		Y	338 15-23-41	450 21-31-47	563 26-37-53	675 31-41-58	788 36-44-62	900 38-47-66	1013 41-50-70
	A3	X	591 22-33-47	788 30-38-54	984 35-43-61	1181 38-47-66	1378 41-51-72	1575 44-54-77	1772 47-58-81
		Y	169 15-23-36	225 20-30-42	281 25-33-47	338 30-36-52	394 32-39-56	450 34-42-59	506 36-45-63
	B3	X	675 29-39-56	900 37-46-65	1125 42-51-72	1350 46-56-79	1575 49-60-85	1800 53-65-91	2025 56-68-97
		Y	338 15-23-41	450 21-31-47	563 26-37-53	675 31-41-58	788 36-44-62	900 38-47-66	1013 41-50-70
	B4	X	506 22-33-47	675 30-38-54	844 35-43-61	1013 38-47-66	1181 41-51-72	1350 44-54-77	1519 47-58-81
		Y	169 15-23-36	225 20-30-42	281 25-33-47	338 30-36-52	394 32-39-56	450 34-42-59	506 36-45-63
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	1800 16	2400 23	3000 29	3600 34	4200 38	4800 41	5400 44
18 x 48 6.00 ft.Y	A1&B1	X	1800 42-52-73	2400 49-60-84	3000 54-67-94	3600 59-73-104	4200 64-79-111	4800 69-84-119	5400 73-89-126
	A2&B2	X & Y	900 23-35-60	1200 31-46-69	1500 38-55-78	1800 46-60-85	2100 53-65-92	2400 57-69-98	2700 60-74-104
	E2&F2	X	1463 29-40-57	1950 38-46-66	2438 42-52-74	2925 46-57-81	3413 50-62-87	3900 54-66-93	4388 57-70-99
		Y	338 18-27-47	450 24-36-54	563 30-43-61	675 36-47-66	788 41-51-72	900 44-54-77	1013 47-58-81
	A3	X	816 26-38-54	1088 34-44-63	1359 40-50-70	1631 44-54-77	1903 48-59-83	2175 51-63-89	2447 54-66-94
		Y	169 18-26-42	225 23-34-49	281 29-38-54	338 34-42-59	394 37-45-64	450 40-49-69	506 42-52-73
	E3	X	1125 37-46-65	1500 43-53-75	1875 49-59-84	2250 53-65-92	2625 57-70-99	3000 61-75-106	3375 65-80-113
		Y	338 18-27-47	450 24-36-54	563 30-43-61	675 36-47-66	788 41-51-72	900 44-54-77	1013 47-58-81
	B4	X	731 26-38-54	975 34-44-63	1219 40-50-70	1463 44-54-77	1706 48-59-83	1950 51-63-89	2194 54-66-94
		Y	169 18-26-42	225 23-34-49	281 29-38-54	338 34-42-59	394 37-45-64	450 40-49-69	506 42-52-73
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	1050 14	1400 21	1750 27	2100 32	2450 36	2800 40	3150 43
21 x 24 3.50 ft.Y	A1&B1	X	1050 32-39-56	1400 37-45-64	1750 42-51-72	2100 45-56-79	2450 49-60-85	2800 53-64-91	3150 56-68-97
	A2&B2	X & Y	525 18-26-46	700 23-35-53	875 29-42-59	1050 35-46-65	1225 40-50-70	1400 43-53-75	1575 46-56-80
	E2&F2	X	591 22-31-43	788 29-36-50	984 32-40-56	1181 36-43-62	1378 38-47-66	1575 41-50-71	1772 43-53-75
		Y	459 14-20-36	613 18-27-41	766 23-33-46	919 27-36-51	1072 32-39-55	1225 34-41-59	1378 36-44-62
	A3	X	410 20-29-41	547 26-34-48	684 31-38-53	820 34-41-59	957 37-45-63	1094 39-48-68	1230 41-51-72
		Y	230 13-20-32	306 18-26-37	383 22-29-41	459 26-32-45	536 28-35-49	613 30-37-52	689 32-39-56
	A3-2	X	300 19-28-46	400 25-37-53	500 32-42-59	600 37-46-64	700 40-49-70	800 43-53-74	900 46-56-79
		Y	375 14-20-36	500 18-27-41	625 23-33-46	750 27-36-51	875 32-39-55	1000 34-41-59	1125 36-44-62
	B4	X	295 20-29-41	394 26-34-48	492 31-38-53	591 34-41-59	689 37-45-63	788 39-48-68	886 41-51-72
		Y	230 13-20-32	306 18-26-37	383 22-29-41	459 26-32-45	536 28-35-49	613 30-37-52	689 32-39-56
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	1313 15	1750 22	2188 28	2625 33	3063 37	3500 40	3938 43
21 x 30 4.38 ft.Y	A1&B1	X	1313 36-44-62	1750 42-51-72	2188 46-57-80	2625 51-62-88	3063 55-67-95	3500 59-72-102	3938 62-76-108
	A2&B2	X & Y	656 20-29-51	875 26-39-59	1094 33-47-66	1313 39-51-73	1531 45-55-78	1750 48-59-84	1969 51-63-89
	E2&F2	X	853 25-34-49	1138 32-40-56	1422 36-44-63	1706 40-49-69	1991 43-53-74	2275 46-56-79	2559 49-60-84
		Y	459 15-23-40	613 20-30-46	766 25-37-52	919 30-40-57	1072 35-43-61	1225 38-46-66	1378 40-49-69
	A3	X	541 22-33-46	722 29-38-53	902 35-42-60	1083 38-46-66	1263 41-50-71	1444 44-53-76	1624 46-57-80
		Y	230 15-22-36	306 20-29-41	383 25-33-46	459 29-36-51	536 32-39-55	613 34-41-59	689 36-44-62
	A3-2	X	469 21-32-51	625 28-42-59	781 35-46-66	938 42-51-72	1094 45-55-78	1250 48-59-83	1406 51-62-88
		Y	422 15-23-40	563 20-30-46	703 25-37-52	844 30-40-57	984 35-43-61	1125 38-46-66	1266 40-49-69
	B4	X	427 22-33-46	569 29-38-53	711 35-42-60	853 38-46-66	995 41-50-71	1138 44-53-76	1280 46-57-80
		Y	230 15-22-36	306 20-29-41	383 25-33-46	459 29-36-51	536 32-39-55	613 34-41-59	689 36-44-62
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	1575 15	2100 23	2625 29	3150 33	3675 37	4200 41	4725 44
21 x 36 5.25 ft.Y	A1&B1	X	1575 39-48-68	2100 45-56-79	2625 51-62-88	3150 56-68-97	3675 60-74-104	4200 64-79-111	4725 68-84-118
	A2&B2	X & Y	788 22-32-56	1050 29-43-65	1313 36-51-73	1575 43-56-80	1838 50-61-86	2100 53-65-92	2363 56-69-97
	E2&F2	X	1116 27-38-53	1488 36-43-62	1859 40-49-69	2231 43-53-75	2603 47-58-81	2975 50-62-87	3347 53-65-92
		Y	459 17-25-44	613 22-33-51	766 28-40-57	919 33-44-62	1072 39-47-67	1225 41-51-72	1378 44-54-76
	A3	X	673 24-36-51	897 32-41-59	1121 38-46-66	1345 41-51-72	1570 45-55-78	1794 48-59-83	2018 51-62-88
		Y	230 16-25-39	306 22-32-45	383 27-36-51	459 32-39-56	536 35-42-60	613 37-45-64	689 39-48-68
	A3-2	X	675 23-35-56	900 31-46-64	1125 39-51-72	1350 46-56-79	1575 49-60-85	1800 53-64-91	2025 56-68-97
		Y	450 17-25-44	600 22-33-51	750 28-40-57	900 33-44-62	1050 39-47-67	1200 41-51-72	1350 44-54-76
	B4	X	558 24-36-51	744 32-41-59	930 38-46-66	1116 41-51-72	1302 45-55-78	1488 48-59-83	1673 51-62-88
		Y	230 16-25-39	306 22-32-45	383 27-36-51	459 32-39-56	536 35-42-60	613 37-45-64	689 39-48-68



Diffusers | Square and Rectangular, Louvered Face | Performance Data

Performance Data • Rectangular Neck (continued)

TDC • Louvered Face • Supply • Horizontal Blow Pattern

		Neck Vel. Vel. Pressure Total Pressure	300 0.006 0.042	400 0.010 0.075	500 0.016 0.117	600 0.022 0.169	700 0.031 0.229	800 0.040 0.300	900 0.050 0.379
Return Factors -SP = 1.1 TP NC + 1	Total cfm NC Side	cfm	Throw	cfm	Throw	cfm	Throw	cfm	Throw
21 x 48 7.00 ft.Y	A1&B1	X	2100	45-56-79	2800	53-64-91	3500	4200	4900
	A2&B2	X & Y	1050	25-37-65	1400	33-50-75	1750	2100	2450
	E2&F2	X	1641	32-43-62	2188	41-50-71	2734	3281	3828
		Y	459	19-29-51	613	26-38-59	766	919	1072
	A3	X	935	28-41-59	1247	37-48-68	1559	1870	2182
		Y	230	19-28-45	306	25-37-52	383	459	536
	E3	X	1181	40-50-70	1575	47-57-81	1969	2363	2756
		Y	459	19-29-51	613	26-38-59	766	919	1072
	B4	X	820	28-41-59	1094	37-48-68	1367	1641	1914
		Y	230	19-28-45	306	25-37-52	383	459	536
Return Factors -SP = 1.1 TP NC + 1	Total cfm NC Side	cfm	Throw	cfm	Throw	cfm	Throw	cfm	Throw
24 x 30 5.00 ft.Y	A1&B1	X	1500	38-47-67	2000	44-54-77	2500	3000	3500
	A2&B2	X & Y	750	21-32-55	1000	28-42-63	1250	1500	1750
	E2&F2	X	900	27-37-52	1200	35-42-60	1500	1800	2100
		Y	600	16-24-43	800	22-32-50	1000	1200	1400
	A3	X	600	24-35-50	800	31-40-57	1000	1200	1400
		Y	300	16-24-38	400	21-31-44	500	600	700
	A3-2	X	469	23-34-54	625	30-44-63	781	938	1094
		Y	516	16-24-43	688	22-32-50	859	1031	1203
	B4	X	450	24-35-50	600	31-40-57	750	900	1050
		Y	300	16-24-38	400	21-31-44	500	600	700
Return Factors -SP = 1.1 TP NC + 1	Total cfm NC Side	cfm	Throw	cfm	Throw	cfm	Throw	cfm	Throw
24 x 36 6.00 ft.Y	A1&B1	X	1800	42-52-73	2400	49-60-84	3000	3600	4200
	A2&B2	X & Y	900	23-35-60	1200	31-46-69	1500	1800	2100
	E2&F2	X	1200	29-40-57	1600	38-46-66	2000	2400	2800
		Y	600	18-27-47	800	24-36-54	1000	1200	1400
	A3	X	750	26-38-54	1000	34-44-63	1250	1500	1750
		Y	300	18-26-42	400	23-34-49	500	600	700
	A3-2	X	675	25-37-60	900	33-49-69	1125	1350	1575
		Y	563	18-27-47	750	24-36-54	938	1125	1313
	B4	X	600	26-38-54	800	34-44-63	1000	1200	1400
		Y	300	18-26-42	400	23-34-49	500	600	700
Return Factors -SP = 1.1 TP NC + 1	Total cfm NC Side	cfm	Throw	cfm	Throw	cfm	Throw	cfm	Throw
24 x 48 8.00 ft.Y	A1&B1	X	2400	49-60-84	3200	56-69-97	4000	4800	5600
	A2&B2	X & Y	1200	27-40-69	1600	35-53-80	2000	2400	2800
	E2&F2	X	1800	34-46-66	2400	44-54-76	3000	3600	4200
		Y	600	21-31-54	800	27-41-63	1000	1200	1400
	A3	X	1050	30-44-63	1400	40-51-72	1750	2100	2450
		Y	300	20-30-49	400	27-40-56	500	600	700
	B3	X	1200	38-53-74	1600	50-61-86	2000	2400	2800
		Y	600	21-31-54	800	27-41-63	1000	1200	1400
	B4	X	900	30-44-63	1200	40-51-72	1500	1800	2100
		Y	300	20-30-49	400	27-40-56	500	600	700
Return Factors -SP = 1.1 TP NC + 1	Total cfm NC Side	cfm	Throw	cfm	Throw	cfm	Throw	cfm	Throw
30 x 36 7.50 ft.Y	A1&B1	X	2250	47-58-82	3000	54-67-94	3750	4500	5250
	A2&B2	X & Y	1125	26-39-67	1500	34-51-78	1875	2250	2625
	E2&F2	X	1313	33-45-64	1750	42-52-74	2188	2625	3063
		Y	938	20-30-53	1250	27-40-61	1563	1875	2188
	A3	X	891	29-43-61	1188	38-50-70	1484	1781	2078
		Y	469	20-29-47	625	26-38-54	781	938	1094
	A3-2	X	675	28-42-67	900	37-54-77	1125	1350	1575
		Y	788	20-30-53	1050	27-40-61	1313	1575	1838
	B4	X	656	29-43-61	875	38-50-70	1094	1313	1531
		Y	469	20-29-47	625	26-38-54	781	938	1094



Diffusers | Square and Rectangular, Louvered Face | Performance Data

Performance Data • Rectangular Neck (continued)

TDC • Louvered Face • Supply • Horizontal Blow Pattern

		Neck Vel.	300	400	500	600	700	800	900
		Vel. Pres.	0.006	0.010	0.016	0.022	0.031	0.040	0.050
		Total Pres.	0.042	0.075	0.117	0.169	0.229	0.300	0.379
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	3000 17	4000 25	5000 31	6000 35	7000 39	8000 43	9000 46
30 x 48 10.00 ft.Y	A1&B1	X	3000 54-67-94	4000	5000	6000 77-94-133	7000 83-102-144	8000 89-109-154	9000 94-115-163
	A2&B2	X & Y	1500 30-45-78	2000 40-59-90	2500	3000 59-78-110	3500 68-84-119	4000 73-90-127	4500 78-95-134
	E2&F2	X	2063 38-52-74	2750 49-60-85	3438 55-67-95	4125 60-74-104	4813 65-79-112	5500 69-85-120	6188 74-90-127
		Y	938 23-34-61	1250 31-46-70	1563 38-55-78	1875 46-61-86	2188 53-66-93	2500 57-70-99	2813 61-74-105
	A3	X	1266 33-50-70	1688 44-57-81	2109 52-64-90	2531 57-70-99	2953 62-76-107	3375 66-81-114	3797 70-86-121
		Y	469 23-34-54	625 30-44-63	781 38-50-70	938 44-54-77	1094 48-59-83	1250 51-63-89	1406 54-67-94
	A3-2	X	1200 32-48-77	1600 43-63-89	2000 53-70-99	2400 63-77-109	2800 68-83-118	3200 73-89-126	3600 77-94-133
			900 23-34-61	1200 31-46-70	1500 38-55-78	1800 46-61-86	2100 53-66-93	2400 57-70-99	2700 61-74-105
	B4	X	1031 33-50-70	1375 44-57-81	1719 52-64-90	2063 57-70-99	2406 62-76-107	2750 66-81-114	3094 70-86-121
		Y	469 23-34-54	625 30-44-63	781 38-50-70	938 44-54-77	1094 48-59-83	1250 51-63-89	1406 54-67-94
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	3600 18	4800 25	6000 31	7200 36	8400 40	9600 44	10800 47
36 x 48 12.00 ft.Y	A1&B1	X	3600	4800	6000	7200 84-103-146	8400 91-111-158	9600 97-119-168	10800 103-126-179
	A2&B2	X & Y	1800 33-49-85	2400 43-65-98	3000	3600 65-85-120	4200 75-92-130	4800 80-98-139	5400 85-104-147
	E2&F2	X	2250 42-57-81	3000 54-66-93	3750	4500 66-81-114	5250 71-87-123	6000 76-93-131	6750 81-99-139
		Y	1350 25-38-66	1800 34-50-77	2250 42-61-86	2700 50-66-94	3150 59-72-101	3600 63-77-108	4050 66-81-115
	A3	X	1463 37-54-77	1950 49-63-89	2438 57-70-99	2925 63-77-108	3413 68-83-117	3900 72-89-125	4388 77-94-133
		Y	675 25-37-59	900 33-49-69	1125 41-54-77	1350 49-59-84	1575 52-64-91	1800 56-69-97	2025 59-73-103
	A3-2	X	1200 35-53-84	1600 47-69-97	2000	2400 69-84-119	2800 74-91-129	3200 80-97-138	3600 84-103-146
			1200 25-38-66	1600 34-50-77	2000 42-61-86	2400 50-66-94	2800 59-72-101	3200 63-77-108	3600 66-81-115
	B4	X	1125 37-54-77	1500 49-63-89	1875 57-70-99	2250 63-77-108	2625 68-83-117	3000 72-89-125	3375 77-94-133
		Y	675 25-37-59	900 33-49-69	1125 41-54-77	1350 49-59-84	1575 52-64-91	1800 56-69-97	2025 59-73-103



Diffusers | Square and Rectangular, Louvered Face | Performance Data

Performance Data • Round Neck

TDC • Louvered Face • Supply • Horizontal Blow Pattern

Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	78 0.058 10	98 0.092 16	117 0.131 21	137 0.179 25	156 0.223 28	176 0.296 31	215 0.442 36
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
6"	S1	X	75 5-7-15	98 6-9-18	117 7-11-20	137 9-13-22	156 10-15-25	176 45978	215 14-19-27
	S2&G2	X & Y	38 3-5-10	50 4-6-13	59 5-7-14	69 6-9-16	78 7-10-17	88 7-11-18	108 9-14-20
	A3	X	29 3-4-8	37 3-5-9	44 4-6-10	51 5-7-10	59 6-8-11	66 6-8-12	81 7-9-13
	Y	20 2-4-7	25 3-5-8	29 4-6-9	34 4-7-9	39 5-7-10	44 6-7-12	54 7-8-12	54 7-8-12
Round		A4	X & Y	20 2-4-7	25 3-5-8	29 4-6-9	34 4-7-9	39 5-7-10	44 6-7-12
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	98 0.041 10	117 0.058 14	137 0.079 18	156 0.103 21	176 0.131 25	215 0.196 30	254 0.273 34
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
9"	S1	X	98 6-9-18	117 7-11-20	137 9-15-22	156 10-15-23	176 11-17-25	215 20-24-34	254 17-21-30
	S2&G2	X & Y	49 4-6-13	59 5-7-14	69 6-9-16	78 7-10-17	88 7-11-18	108 9-14-20	127 11-15-21
	A3	X	37 3-5-9	44 4-6-10	51 5-7-10	59 6-8-11	66 6-8-12	81 7-9-13	95 8-10-14
	Y	25 3-5-8	29 4-6-9	34 4-7-9	39 5-7-10	44 6-7-11	54 7-8-12	64 7-9-13	64 7-9-13
Round		A4	X & Y	25 3-5-8	29 4-6-9	34 4-7-9	39 5-7-10	44 6-7-11	54 7-8-12
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	139 0.046 10	174 0.072 16	209 0.104 20	244 0.142 24	279 0.186 27	314 0.235 32	383 0.350 36
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
9"	S1	X	139 7-10-21	174 8-13-24	209 10-15-27	244 12-18-29	279 14-21-31	314 15-23-33	383 19-26-37
	S2&G2	X & Y	70 4-7-14	87 5-8-17	105 7-10-19	122 8-12-21	140 9-14-22	157 10-15-24	192 12-19-26
	A3	X	52 4-6-11	66 5-7-12	79 6-9-13	92 7-10-14	105 8-10-14	119 9-11-16	145 10-12-18
	Y	35 3-5-9	44 4-7-11	52 5-8-12	61 6-9-13	70 7-9-14	79 8-10-14	96 9-11-16	96 9-11-16
Round		A4	X & Y	35 3-5-9	44 4-7-11	52 5-8-12	61 6-9-13	70 7-9-14	79 8-10-14
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	174 0.041 11	209 0.059 16	244 0.080 21	279 0.104 25	314 0.132 28	383 0.197 31	453 0.275 36
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
12"	S1	X	174 8-13-24	209 10-15-27	244 12-18-29	279 14-21-31	314 15-23-33	383 19-26-37	453 22-28-40
	S2&G2	X & Y	87 5-8-17	105 7-10-19	122 8-12-24	140 9-14-22	157 10-15-24	192 12-19-26	227 15-20-29
	A3	X	66 5-7-12	79 6-9-13	92 7-10-14	105 8-11-15	119 9-11-16	145 10-12-18	171 11-14-19
	Y	44 4-7-11	52 5-8-12	61 6-9-13	70 7-9-14	79 8-10-14	96 9-11-16	113 10-12-18	113 10-12-18
Round		A4	X & Y	44 4-7-11	52 5-8-12	61 6-9-13	70 7-9-14	79 8-10-14	96 9-11-16
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	218 0.041 10	272 0.064 16	327 0.092 21	381 0.125 25	436 0.163 28	490 0.206 31	599 0.308 36
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
12"	S1	X	218 8-13-24	272 11-16-31	327 13-19-34	381 15-23-36	436 17-26-39	490 19-29-41	599 24-32-46
	S2&G2	X & Y	109 5-8-17	136 7-11-22	164 8-12-24	191 10-15-26	218 11-17-28	245 13-19-30	300 16-23-33
	A3	X	82 5-7-12	103 6-9-13	123 7-11-16	144 8-12-18	165 10-13-29	185 11-14-20	226 13-16-22
	Y	55 4-7-11	68 5-8-12	82 7-10-15	95 8-11-16	109 9-12-17	123 10-13-18	150 11-14-20	150 11-14-20
Round		A4	X & Y	55 4-7-11	68 5-8-12	82 7-10-15	95 8-11-16	109 9-12-17	123 10-13-18
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	235 0.033 5	314 0.059 13	392 0.092 19	471 0.132 24	549 0.130 28	628 0.235 32	706 0.298 35
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
12"	S1	X	235 7-11-23	314 10-15-31	392 13-19-34	471 15-23-36	549 18-27-44	628 21-31-47	706 23-35-40
	S2&G2	X & Y	118 5-7-15	157 7-10-21	196 8-12-24	236 10-15-26	275 12-18-32	314 13-19-30	353 16-23-33
	A3	X	89 4-6-13	119 6-10-20	148 7-11-16	178 8-12-18	207 10-15-21	237 11-14-20	267 13-16-24
	Y	59 4-6-12	79 5-8-12	98 7-10-15	118 8-11-16	137 9-12-17	157 11-14-21	177 12-15-22	177 12-15-22
Round		A4	X & Y	59 4-6-12	79 5-8-12	98 7-10-15	118 8-11-16	137 9-12-17	157 11-14-21
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	314 0.038 10	392 0.059 17	471 0.085 22	549 0.115 26	623 0.150 29	706 0.190 32	863 0.284 37
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
15"	S1	X	314 10-15-31	392 13-19-37	471 15-23-41	549 18-27-44	623 21-31-47	706 23-35-50	863 29-39-55
	S2&G2	X & Y	157 7-10-21	196 8-13-26	236 10-15-29	275 12-18-32	312 14-21-34	353 15-23-36	432 19-28-40
	A3	X	119 6-9-16	148 7-11-18	178 8-12-18	207 10-15-21	237 11-14-20	267 13-16-24	326 15-19-27
	Y	79 5-8-14	98 7-10-16	118 8-12-18	137 9-14-21	156 11-14-21	177 12-15-22	216 14-17-24	216 14-17-24
Round		A4	X & Y	79 5-8-14	98 7-10-16	118 8-12-18	137 9-14-21	156 11-14-21	177 12-15-22
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	320 0.029 -	427 0.051 14	534 0.080 20	641 0.115 25	748 0.157 29	855 0.205 33	863 0.260 36
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
15"	S1	X	320 9-13-27	427 12-18-37	534 15-23-43	641 18-27-47	748 21-32-52	855 24-37-55	863 24-32-46
	S2&G2	X & Y	160 6-9-18	214 8-12-24	267 10-15-31	321 12-18-34	374 14-27-37	428 16-24-40	432 16-23-39
	A3	X	121 5-8-16	161 7-10-19	202 9-14-21	242 10-16-23	282 12-18-25	323 14-19-27	326 13-16-22
	Y	80 4-7-14	107 6-9-17	134 8-12-19	160 9-14-23	187 11-16-23	214 13-17-24	216 14-18-26	216 14-18-26
Round		A4	X & Y	80 4-7-14	107 6-9-17	134 8-12-19	160 9-14-23	187 11-16-23	214 13-17-24



Diffusers | Square and Rectangular, Louvered Face | Performance Data

Performance Data • Round Neck (continued)

TDC • Louvered Face • Supply • Horizontal Blow Pattern

Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	98 0.041 -	117 0.058 14	137 0.079 18	156 0.103 21	176 0.131 25	215 0.196 30	254 0.273 34
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
18	S1	X	98 6-9-18	117 7-11-20	137 9-15-22	156 10-15-23	176 11-17-25	215 20-24-34	254 17-21-30
x	S2&G2	X & Y	49 4-6-13	59 5-7-14	69 6-9-16	78 7-10-17	88 7-11-18	108 9-14-20	127 11-15-21
18	A3	X	37 3-5-9	44 4-6-10	51 5-7-10	59 6-8-11	66 6-8-12	81 7-9-13	95 8-10-14
6"		Y	25 3-5-8	29 4-6-9	34 4-7-9	39 5-7-10	44 6-7-11	54 7-8-12	64 7-9-13
Round	A4	X & Y	25 3-5-8	29 4-6-9	34 4-7-9	39 5-7-10	44 6-7-11	54 7-8-12	64 7-9-13
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	174 0.041 11	209 0.059 16	244 0.080 20	279 0.104 24	314 0.132 27	383 0.197 32	453 0.275 36
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
18	S1	X	174 8-13-24	209 10-15-27	244 12-18-29	279 14-21-31	314 15-23-33	383 19-26-37	453 22-28-40
x	S2&G2	X & Y	87 5-8-17	105 7-10-19	122 8-12-24	140 9-14-22	157 10-15-24	192 12-19-26	227 15-20-29
18	A3	X	66 5-7-12	79 6-9-13	92 7-10-14	105 8-11-15	119 9-11-16	145 10-12-18	171 11-14-19
8"		Y	44 4-7-11	52 5-8-12	61 6-9-13	70 7-9-14	79 8-10-14	96 9-11-16	113 10-12-18
Round	A4	X & Y	44 4-7-11	52 5-8-12	61 6-9-13	70 7-9-14	79 8-10-14	96 9-11-16	113 10-12-18
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	218 0.041 10	272 0.064 16	327 0.092 21	381 0.125 25	436 0.163 28	490 0.206 31	599 0.308 36
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
18	S1	X	218 8-13-24	272 11-16-31	327 13-19-34	381 15-23-36	436 17-26-39	490 19-29-41	599 24-32-46
x	S2&G2	X & Y	109 5-8-17	136 7-11-22	164 8-12-24	191 10-15-26	218 11-17-28	245 13-19-30	300 16-23-33
18	A3	X	82 5-7-12	103 6-9-13	123 7-11-16	144 8-12-18	165 10-13-29	185 11-14-20	226 13-16-22
10"		Y	55 4-7-11	68 5-8-12	82 7-10-15	95 8-11-16	109 9-12-17	123 10-13-18	150 11-14-20
Round	A4	X & Y	55 4-7-11	68 5-8-12	82 7-10-15	95 8-11-16	109 9-12-17	123 10-13-18	150 11-14-20
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	314 0.038 10	392 0.059 17	471 0.085 22	549 0.115 26	623 0.150 29	706 0.190 32	863 0.284 37
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
18	S1	X	314 10-15-31	392 13-19-37	471 15-23-41	549 18-27-44	623 21-31-47	706 23-35-50	863 29-39-55
x	S2&G2	X & Y	157 7-10-21	196 8-13-26	236 10-15-29	275 12-18-32	312 14-21-34	353 15-23-36	432 19-28-40
18	A3	X	119 6-9-16	148 7-11-18	178 9-13-20	207 10-15-21	235 12-16-23	267 13-17-24	326 15-19-27
12"		Y	79 5-8-14	98 7-10-16	118 8-12-18	137 9-14-21	156 11-14-21	177 12-15-22	216 14-17-24
Round	A4	X & Y	79 5-8-14	98 7-10-16	118 8-12-18	137 9-14-21	156 11-14-21	177 12-15-22	216 14-17-24
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	427 0.036 12	534 0.056 17	641 0.080 22	748 0.109 26	855 0.142 30	962 0.180 33	1175 0.269 38
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
18	S1	X	427 12-18-27	534 15-23-43	641 18-27-47	748 21-32-47	855 27-37-55	962 27-41-58	1175 33-45-64
x	S2&G2	X & Y	214 8-12-24	267 10-15-31	321 12-18-34	374 14-27-37	428 16-24-40	481 18-27-42	588 22-33-47
18	A3	X	161 7-10-19	202 8-13-21	242 10-16-23	282 12-18-25	323 14-19-27	363 16-20-29	444 18-22-32
14"		Y	107 6-9-17	134 8-12-19	160 9-14-21	187 11-16-23	214 13-17-24	241 14-18-26	294 16-20-29
Round	A4	X & Y	107 6-9-17	134 8-12-19	160 9-14-21	187 11-16-23	214 13-17-24	241 14-18-26	294 16-20-29
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	418 0.020 -	558 0.036 12	698 0.056 17	837 0.080 21	977 0.109 29	1116 0.142 34	1256 0.180 38
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
18	S1	X	418 10-15-31	558 14-21-42	698 17-26-49	837 21-31-54	977 24-37-59	1116 28-42-63	1256 31-47-67
x	S2&G2	X & Y	209 7-10-21	279 9-14-28	349 11-17-35	419 14-21-39	489 16-24-42	558 18-28-45	628 21-31-48
18	A3	X	158 6-10-20	211 8-12-22	264 10-15-24	316 12-18-27	369 14-20-29	421 16-22-31	474 18-23-33
16"		Y	105 5-8-17	140 7-11-19	175 9-14-22	209 11-17-24	244 13-18-26	279 15-19-28	314 17-21-29
Round	A4	X & Y	105 5-8-17	140 7-11-19	175 9-14-22	209 11-17-24	244 13-18-26	279 15-19-28	314 17-21-29



Diffusers | Square and Rectangular, Louvered Face | Performance Data

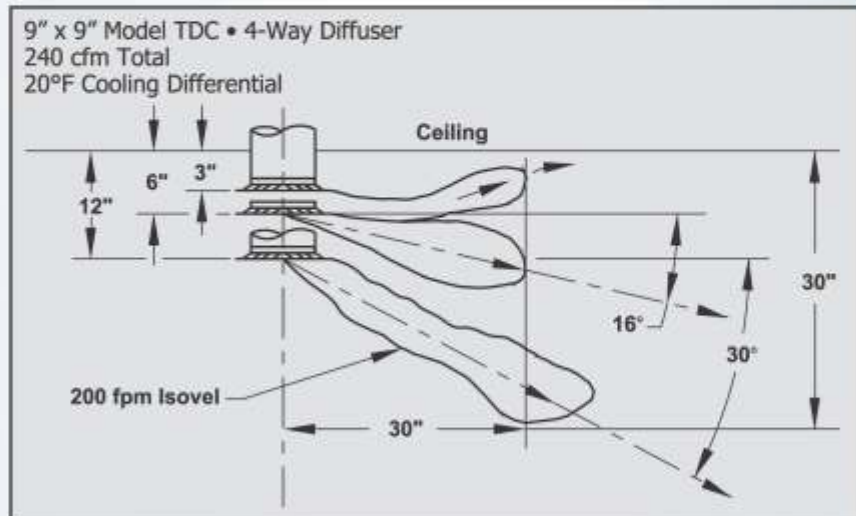
Performance Notes

Models: TDC, TDC - B, TDC - S

- All pressures are in inches of water. TP is total pressure, - SP is negative static pressure for return units.
- Throw values are given for terminal velocities of 150, 100, and 50 fpm. For an explanation of catalog throw data, see the section, Engineering Guidelines for catalog throw data.
- NC values are based on a room absorption of 10 dB, re 10⁻¹² watts, with one diffuser operating.
- If the diffuser is used as a return inlet, the following corrections apply:
 - Negative static pressure: Multiply the factor at the upper left corner of the performance table by the total pressure listed in the table.
 - Sound: Add the NC correction at the upper left corner of the performance table to the NC value listed in the table.
 - Return Performance Example: 6 x 6 Model TDC handling: 150 cfm of return air
 $-SP = 1.1(-TP)$
 Return negative SP = $1.1 \times (0.169) = -0.1859$ inches wg.
 Return NC = NC Table + 1.
 Return NC = $23 + 1 = 24$.
- These products have been tested per ANSI/ASHRAE 70-2006. Actual performance, with flexible duct inlet, may vary in the field. See the section, Engineering Guidelines for additional information.
- Data in the tables apply when the diffuser is mounted nearly flush with the ceiling for maximum ceiling effect. When no ceiling effect is present, the horizontal throw will be about 25% less than shown in the tables. The mounting distance below the ceiling will also affect the downward projection angle as indicated in the diagram at upper right.

Model TDC Performance

- For Model TDC diffusers (adjustable pattern controllers) apply the corrections from the table at the right to the TDC data for square neck, 4-way core styles, as follows:
 - TP = Listed value x correction
 - NC = Listed value + correction
 - Throw = Listed value x correction
- Apply the throw factor to the 50 fpm terminal velocity throw only.



Recommended Maximum Airflow

Ceiling Height, ft.	8	9	10	12	15	20
Airflow, cfm, per Side	200	350	550	900	1500	4000

Note: Although this data is based on a 20°F temperature differential during cooling, it also applies to any differential between 15°F and 25°F.

Corrections for Model TDC (adjustable pattern controllers)

Nominal Neck Size	NC (add)		Total Pressure (Multiply)		Vertical Throw (Multiply)		
					Cooling 20° F	Heating, ΔT	
	H	V	H	V		0° F	20° F
6 x 6	3	7	1.3	1.6	1.3	1.1	0.8
9 x 9	3	7	1.5	2.3	1.4	1.2	0.72
12 x 12	3	7	1.5	2.3	1.5	1.25	0.65
15 x 15	3	7	1.5	2.3	1.55	1.27	0.62
18 x 18	3	7	1.5	2.3	1.6	1.3	0.59
21 x 21	3	7	1.5	2.3	1.65	1.35	0.57
24 x 24	3	7	1.5	2.3	1.1	1.1	0.55

Note: TDC and TDV Performance Data were obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.

- Vertical adjustments are most effective with the above sizes, using an A4 pattern.