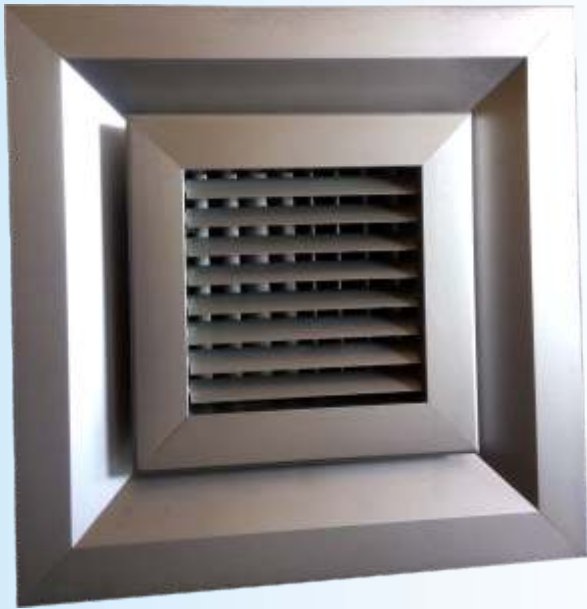




TDG



TDG

Diffusers | Square and Rectangular Ceiling Grilles , Grilled Face

Square and Rectangular Ceiling Grilles

Aluminum Models:

- TDG : classic frame
- TDG - B : high frame

These Products Include:

- Standard Finish: #26 White.
- 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.

TDG :

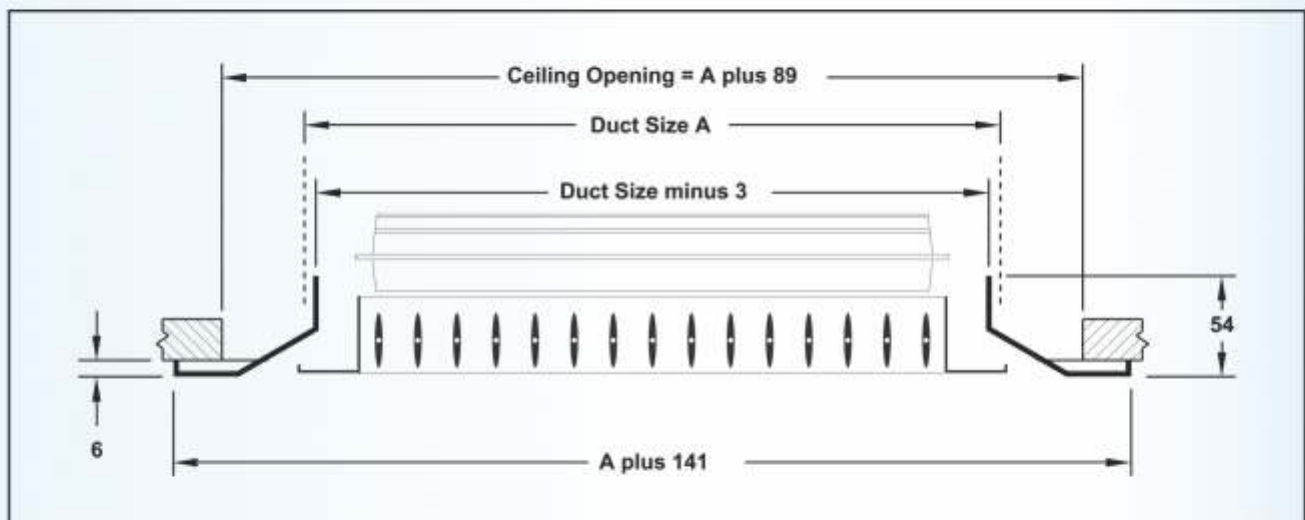
- $\frac{3}{4}$ -inch blade spacing.
- Double deflection.
- Individually adjustable airfoil blades.
- Front blades parallel to the short dimension.
- -20gauge border.

TDG - B :

- Same as TDG with front blades parallel to the long dimension.



SUBMITAL





TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles, Grilled 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 - -	100 13 -	125 16 -	150 23 -	175 27 -	200 31 -	225 34 -
6 x 6 0.25 ft ²	S1	X	cfm	Throw	cfm	Throw	cfm	Throw	cfm	Throw
	S2&G2	X & Y	75	8-10-14	100	9-11-16	125	10-13-18	150	11-14-20
	A3	X	38	4-6-10	50	5-8-12	63	6-10-14	75	8-10-15
	A4	X & Y	28	4-6-9	38	5-7-11	47	6-8-12	56	7-9-13
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
	S2&G2	X & Y	84	6-9-16	113	8-11-18	141	10-14-20	169	11-16-22
	A3	X	63	8-10-14	84	9-11-16	105	10-13-18	127	11-14-20
	A4	X & Y	42	4-7-12	56	7-10-14	70	8-11-16	84	10-12-17
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
	S2&G2	X & Y	150	8-11-21	200	10-15-24	250	13-19-27	300	15-21-30
	A3	X	113	11-13-18	150	12-15-21	188	14-17-24	225	15-18-26
	A4	X & Y	75	6-10-16	100	9-13-19	125	11-15-21	150	13-16-23
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
	S2&G2	X & Y	234	10-14-26	313	13-19-30	391	16-24-34	469	19-26-37
	A3	X	176	13-16-23	234	15-19-27	293	17-21-30	352	19-23-33
	A4	X & Y	117	7-12-20	156	11-16-23	195	14-18-26	234	16-20-28
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
	S2&G2	X & Y	338	11-17-31	450	15-23-36	563	19-29-41	675	23-31-44
	A3	X	253	16-20-28	338	18-23-32	422	21-25-36	506	23-28-39
	A4	X & Y	169	9-15-24	225	13-20-28	281	17-22-31	338	20-24-34
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
	S2&G2	X & Y	459	13-20-37	613	18-27-42	766	22-33-47	919	27-37-52
	A3	X	345	19-23-32	459	22-26-37	574	24-30-42	689	26-32-46
	A4	X & Y	230	10-17-28	306	16-23-32	383	19-26-36	459	23-28-40
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
	S2&G2	X & Y	600	15-23-42	800	20-30-48	1000	25-38-54	1200	30-47-59
	A3	X	450	21-26-37	600	25-30-43	750	28-34-48	900	30-37-52
	A4	X & Y	300	12-20-32	400	18-26-37	500	22-29-41	600	26-32-45
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
	S2&G2	X & Y	938	19-29-52	1250	25-38-60	1563	32-48-68	1875	38-52-74
	A3	X	703	27-33-46	938	31-38-53	1172	34-42-60	1406	38-46-65
	A4	X & Y	469	15-25-40	625	22-33-46	781	28-37-52	938	33-40-57
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
	S2&G2	X & Y	1350	23-34-63	1800	30-46-72	2250	38-57-81	2700	46-63-89
	A3	X	1013	32-39-55	1350	37-45-64	1688	41-51-72	2025	45-55-78
	A4	X & Y	675	18-30-48	900	27-39-56	1125	33-44-62	1350	39-48-68
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
	S2&G2	X & Y	2400	30-46-84	3200	41-61-97	4000	51-76-108	4800	61-84-118
	A3	X	1800	43-52-74	2400	49-60-85	3000	55-68-96	3600	60-74-105
	A4	X & Y	1200	24-40-64	1600	36-52-74	2000	44-59-83	2400	52-64-91



TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles, Grilled Face | Performance Data

(continued)

		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 - -	150 14 -	188 20 -	225 25 -	263 29 -	300 32 -	338 35 -
6 x 9 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 - -	200 15 -	250 21 -	300 26 -	350 30 -	400 33 -	450 36 -
6 x 12 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 - -	250 16 -	313 22 -	375 26 -	438 30 -	500 34 -	563 37 -
6 x 15 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 - -	300 16 -	375 22 -	450 27 -	525 31 -	600 34 -	675 38 -
6 x 18 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 - -	350 17 -	438 23 -	525 27 -	613 31 -	700 35 -	788 38 -
6 x 21 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



TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles, Grilled Face | Performance Data

(continued)

		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 23-29-41	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 23-29-41	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 10-14-20	188 13-16-23	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 12-17-24	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



TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles, Grilled Face | Performance Data

(continued)

		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	cfm Throw	cfm Throw	cfm Throw
9 x 21 1.31 ft ²	A1&B1	X	394 11	525 18	656 24	788 29	919 33	1050 36	1181 39
	A2&B2	X & Y	394 11	525 18	656 24	788 29	919 33	1050 36	1181 39
	E2&F2	X	309 84	413 113	516 141	619 169	722 197	825 225	928 253
		Y	309 84	413 113	516 141	619 169	722 197	825 225	928 253
	A3	X	176 42	234 56	293 70	352 84	410 98	469 113	527 127
		Y	176 42	234 56	293 70	352 84	410 98	469 113	527 127
	E3	X	225 84	300 113	375 141	450 169	525 197	600 225	675 253
		Y	225 84	300 113	375 141	450 169	525 197	600 225	675 253
	B4	X	155 42	206 56	258 70	309 84	361 98	413 113	464 127
		Y	155 42	206 56	258 70	309 84	361 98	413 113	464 127
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 11	600 19	750 24	900 29	1050 33	1200 37	1350 40
	A2&B2	X & Y	450 11	600 19	750 24	900 29	1050 33	1200 37	1350 40
	E2&F2	X	366 84	488 113	609 141	731 169	853 197	975 225	1097 253
		Y	366 84	488 113	609 141	731 169	853 197	975 225	1097 253
	A3	X	204 42	272 56	340 70	408 84	476 98	544 113	612 127
		Y	204 42	272 56	340 70	408 84	476 98	544 113	612 127
	E3	X	281 84	375 113	469 141	563 169	656 197	750 225	844 253
		Y	281 84	375 113	469 141	563 169	656 197	750 225	844 253
	B4	X	183 42	244 56	305 70	366 84	427 98	488 113	548 127
		Y	183 42	244 56	305 70	366 84	427 98	488 113	548 127
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 12	750 19	938 25	1125 30	1313 34	1500 37	1688 41
	A2&B2	X & Y	563 12	750 19	938 25	1125 30	1313 34	1500 37	1688 41
	E2&F2	X	478 84	638 113	797 141	956 169	1116 197	1275 225	1434 253
		Y	478 84	638 113	797 141	956 169	1116 197	1275 225	1434 253
	A3	X	260 42	347 56	434 70	520 84	607 98	694 113	780 127
		Y	260 42	347 56	434 70	520 84	607 98	694 113	780 127
	E3	X	394 84	525 113	656 141	788 169	919 197	1050 225	1181 253
		Y	394 84	525 113	656 141	788 169	919 197	1050 225	1181 253
	B4	X	239 42	319 56	398 70	478 84	558 98	638 113	717 127
		Y	239 42	319 56	398 70	478 84	558 98	638 113	717 127
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 12	900 20	1125 26	1350 31	1575 35	1800 38	2025 41
	A2&B2	X & Y	675 12	900 20	1125 26	1350 31	1575 35	1800 38	2025 41
	E2&F2	X	591 84	788 113	984 141	1181 169	1378 197	1575 225	1772 253
		Y	591 84	788 113	984 141	1181 169	1378 197	1575 225	1772 253
	A3	X	316 42	422 56	527 70	633 84	738 98	844 113	949 127
		Y	316 42	422 56	527 70	633 84	738 98	844 113	949 127
	E3	X	506 84	675 113	844 141	1013 169	1181 197	1350 225	1519 253
		Y	506 84	675 113	844 141	1013 169	1181 197	1350 225	1519 253
	B4	X	295 42	394 56	492 70	591 84	689 98	788 113	886 127
		Y	295 42	394 56	492 70	591 84	689 98	788 113	886 127
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	375 12	500 18	625 24	750 29	875 33	1000 36	1125 39
12 x 15 1.25 ft ²	A1&B1	X	375 12	500 18	625 24	750 29	875 33	1000 36	1125 39
	A2&B2	X & Y	375 12	500 18	625 24	750 29	875 33	1000 36	1125 39
	E2&F2	X	225 150	300 200	375 250	450 300	525 350	600 400	675 450
		Y	225 150	300 200	375 250	450 300	525 350	600 400	675 450
	A3	X	150 75	200 100	250 125	300 150	350 175	400 200	450 225
		Y	150 75	200 100	250 125	300 150	350 175	400 200	450 225
	A3-2	X	117 129	156 172	195 215	234 258	273 301	313 344	352 387
		Y	117 129	156 172	195 215	234 258	273 301	313 344	352 387
	B4	X	113 75	150 100	188 125	225 150	263 175	300 200	338 225
		Y	113 75	150 100	188 125	225 150	263 175	300 200	338 225



TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles, Grilled Face | Performance Data

(continued)

		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



TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles, Grilled Face | Performance Data

(continued)

		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



TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles, Grilled Face | Performance Data

(continued)

		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 ft.Y	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 ft.Y	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 ft.Y	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 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	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 ft.Y	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



TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles, Grilled Face | Performance Data

(continued)

		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 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 ft.Y	A1&B1	X	1800 42-52-73	2400 49-60-84	3000 54-67-94	3600 59-73-103	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 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 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 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



TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles, Grilled Face | Performance Data

(continued)

		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	2100 16	2800 24	3500 29	4200 34	4900 38	5600 42	6300 45
21 x 48 7.00 ft.Y	A1&B1	X	2100 45-56-79	2800 53-64-91	3500	4200	4900 70-85-120	5600 74-91-129	6300 79-97-136
	A2&B2	X & Y	1050 25-37-65	1400 33-50-75	1750 41-59-84	2100 50-65-92	2450 57-70-99	2800 61-75-106	3150 65-80-112
	E2&F2	X	1641 32-43-62	2188 41-50-71	2734 46-56-79	3281 50-62-87	3828 54-66-94	4375 58-71-100	4922 62-75-107
		Y	459 19-29-51	613 26-38-59	766 32-46-66	919 38-51-72	1072 45-55-78	1225 48-59-83	1378 51-62-88
	A3	X	935 28-41-59	1247 37-48-68	1559 44-53-76	1870 48-59-83	2182 52-63-89	2494 55-68-96	2805 59-72-101
		Y	230 19-28-45	306 25-37-52	383 32-41-59	459 37-45-64	536 40-49-69	613 43-52-74	689 45-56-79
	E3	X	1181 40-50-70	1575 47-57-81	1969 52-64-91	2363 57-70-99	2756 62-76-107	3150 66-81-115	3544 70-86-122
		Y	459 19-29-51	613 26-38-59	766 32-46-66	919 38-51-72	1072 45-55-78	1225 48-59-83	1378 51-62-88
	B4	X	820 28-41-59	1094 37-48-68	1367 44-53-76	1641 48-59-83	1914 52-63-89	2188 55-68-96	2461 59-72-101
		Y	230 19-28-45	306 25-37-52	383 32-41-59	459 37-45-64	536 40-49-69	613 43-52-74	689 45-56-79
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
24 x 30 5.00 ft.Y	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	900 27-37-52	1200 35-42-60	1500 39-47-67	1800 42-52-74	2100 46-56-79	2400 49-60-85	2700 52-64-90
		Y	600 16-24-43	800 22-32-50	1000 27-39-55	1200 32-43-61	1400 38-46-66	1600 40-50-70	1800 43-53-74
	A3	X	600 24-35-50	800 31-40-57	1000 37-45-64	1200 40-50-70	1400 44-53-76	1600 47-57-81	1800 50-61-86
		Y	300 16-24-38	400 21-31-44	500 27-35-50	600 31-38-54	700 34-41-59	800 36-44-63	900 38-47-67
	A3-2	X	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
		Y	516 16-24-43	688 22-32-50	859 27-39-55	1031 32-43-61	1203 38-46-66	1375 40-50-70	1547 43-53-74
	B4	X	450 24-35-50	600 31-40-57	750 37-45-64	900 40-50-70	1050 44-53-76	1200 47-57-81	1350 50-61-86
		Y	300 16-24-38	400 21-31-44	500 27-35-50	600 31-38-54	700 34-41-59	800 36-44-63	900 38-47-67
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
24 x 36 6.00 ft.Y	A1&B1	X	1800 42-52-73	2400 49-60-84	3000 54-67-94	3600	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	1200 29-40-57	1600 38-46-66	2000 42-52-74	2400 46-57-81	2800 50-62-87	3200 54-66-93	3600 57-70-99
		Y	600 18-27-47	800 24-36-54	1000 30-43-61	1200 36-47-66	1400 41-51-72	1600 44-54-77	1800 47-58-81
	A3	X	750 26-38-54	1000 34-44-63	1250 40-50-70	1500 44-54-77	1750 48-59-83	2000 51-63-89	2250 54-66-94
		Y	300 18-26-42	400 23-34-49	500 29-38-54	600 34-42-59	700 37-45-64	800 40-49-69	900 42-52-73
	A3-2	X	675 25-37-60	900 33-49-69	1125 41-54-77	1350 49-60-84	1575 53-64-91	1800 56-69-97	2025 60-73-103
		Y	563 18-27-47	750 24-36-54	938 30-43-61	1125 36-47-66	1313 41-51-72	1500 44-54-77	1688 47-58-81
	B4	X	600 26-38-54	800 34-44-63	1000 40-50-70	1200 44-54-77	1400 48-59-83	1600 51-63-89	1800 54-66-94
		Y	300 18-26-42	400 23-34-49	500 29-38-54	600 34-42-59	700 37-45-64	800 40-49-69	900 42-52-73
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	2400 17	3200 24	4000 30	4800 35	5600 39	6400 42	7200 45
24 x 48 8.00 ft.Y	A1&B1	X	2400 49-60-84	3200 56-69-97	4000	4800	5600 74-91-129	6400 79-97-138	7200 84-103-146
	A2&B2	X & Y	1200 27-40-69	1600 35-53-80	2000 44-63-90	2400 53-69-98	2800 61-75-106	3200 65-80-113	3600 69-85-120
	E2&F2	X	1800 34-46-66	2400 44-54-76	3000 49-60-85	3600 54-66-93	4200 58-71-100	4800 62-76-107	5400 66-81-114
		Y	600 21-31-54	800 27-41-63	1000 34-50-70	1200 41-54-77	1400 48-59-83	1600 51-63-89	1800 54-66-94
	A3	X	1050 30-44-63	1400 40-51-72	1750 47-57-81	2100 51-63-89	2450 55-68-96	2800 59-72-102	3150 63-77-108
		Y	300 20-30-49	400 27-40-56	500 34-44-63	600 40-49-69	700 43-52-74	800 46-56-79	900 49-59-84
	B3	X	1200 38-53-74	1600 50-61-86	2000 56-68-96	2400	2800 66-80-114	3200 70-86-122	3600 74-91-129
		Y	600 21-31-54	800 27-41-63	1000 34-50-70	1200 41-54-77	1400 48-59-83	1600 51-63-89	1800 54-66-94
	B4	X	900 30-44-63	1200 40-51-72	1500 47-57-81	1800 51-63-89	2100 55-68-96	2400 59-72-102	2700 63-77-108
		Y	300 20-30-49	400 27-40-56	500 34-44-63	600 40-49-69	700 43-52-74	800 46-56-79	900 49-59-84
Return Factors -SP = 1.1 TP NC + 1		Total cfm NC Side	2250 16	3000 24	3750 30	4500 34	5250 39	6000 42	6750 45
30 x 36 7.50 ft.Y	A1&B1	X	2250 47-58-82	3000 54-67-94	3750	4500	5250 72-88-125	6000 77-94-133	6750 82-100-141
	A2&B2	X & Y	1125 26-39-67	1500 34-51-78	1875 43-61-87	2250 51-67-95	2625 59-73-103	3000 63-78-110	3375 67-82-116
	E2&F2	X	1313 33-45-64	1750 42-52-74	2188 47-58-82	2625 52-64-90	3063 56-69-97	3500 60-74-104	3938 64-78-110
		Y	938 20-30-53	1250 27-40-61	1563 33-48-68	1875 40-53-74	2188 46-57-80	2500 50-61-86	2813 53-64-91
	A3	X	891 29-43-61	1188 38-50-70	1484 45-55-78	1781 50-61-86	2078 53-66-93	2375 57-70-99	2672 61-74-105
		Y	469 20-29-47	625 26-38-54	781 33-43-61	938 38-47-67	1094 41-51-72	1250 44-54-77	1406 47-58-81
	A3-2	X	675 28-42-67	900 37-54-77	1125 46-61-86	1350 54-67-94	1575 59-72-102	1800 63-77-109	2025 67-82-115
		Y	788 20-30-53	1050 27-40-61	1313 33-48-68	1575 40-53-74	1838 46-57-80	2100 50-61-86	2363 53-64-91
	B4	X	656 29-43-61	875 38-50-70	1094 45-55-78	1313 50-61-86	1531 53-66-93	1750 57-70-99	1969 61-74-105
		Y	469 20-29-47	625 26-38-54	781 33-43-61	938 38-47-67	1094 41-51-72	1250 44-54-77	1406 47-58-81



TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles , Grilled Face | Performance Data

(continued)

		Neck Vel. Vel. Pres. Total Pres.	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	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
		Y	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
		Y	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



TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles, Grilled Face | Performance Data

(continued)

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
x	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
6	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
6"		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
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	54 7-8-12
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
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
9	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	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
x	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
9	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
8"		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
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	96 9-11-16
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
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
12	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
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
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
12	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	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
x	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
12	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
12"		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
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	177 12-15-22
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
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
15	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	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
x	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
15	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
14"		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
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	216 14-18-26



TDG Performance Data •

Diffusers | Square and Rectangular Ceiling Grilles, Grilled Face | Performance Data

(continued)

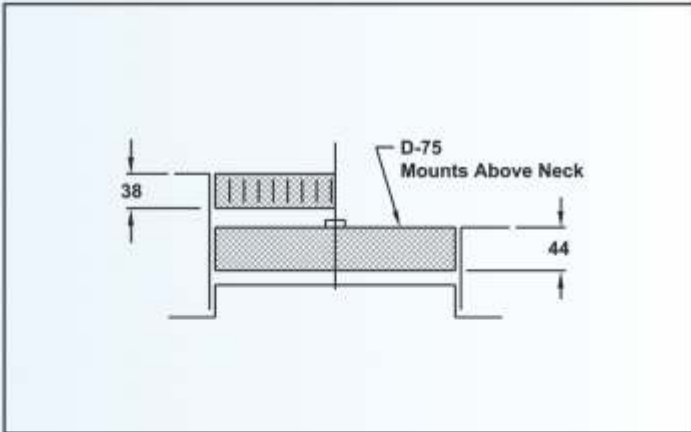
Return Factors -SP = 1.1 TP NC + 1		Total cfm Total Pressure NC Side	98 0.041 -	117 0.058 14	137 0.079 18	156 0.103 21	176 0.131 25	215 0.196 30	254 0.273 34
			cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw	cfm Throw
18"	S1	X	98 6-9-18	117 7-11-20	137 9-15-22	156 10-15-23	176 11-17-25	215 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



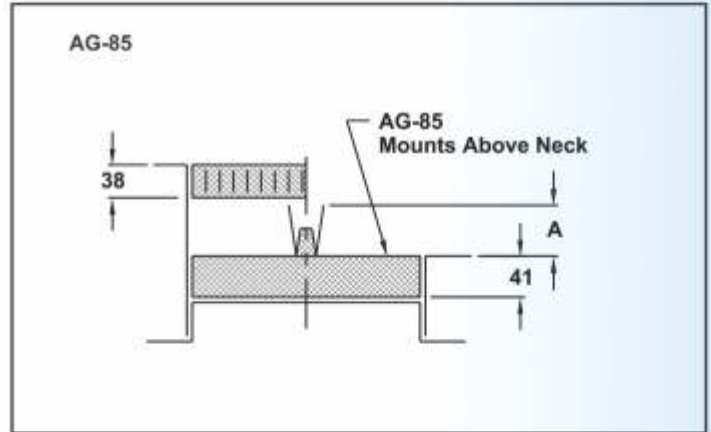
TDG - Accessories •

Accessories (Optional) for Round Neck

D-75

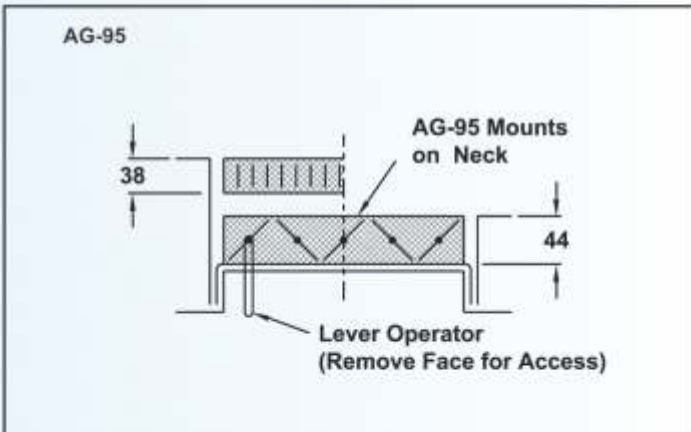


AG-85



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
□ AG-85	64	89	114	140	165