

ISOTHERMAL
TDX / LOUVERED FACE, INDUCTION NOZZLES / SQUARE NECK

Inlet Duct Size	Neck Velocity, fpm	200	250	300	350	400	500	600
	Velocity Pressure, in. wg.	0.003	0.004	0.006	0.008	0.010	0.016	0.022
	Total Pressure, in. wg. (max)	0.027	0.043	0.062	0.084	0.110	0.171	0.247
9" x 9"	Total cfm	113	141	169	197	225	281	338
	NC	-	-	13	19	23	31	37
	S1-Pattern Throw, ft.	5-7-13	6-8-14	7-10-16	8-12-17	9-13-18	11-14-20	13-16-22
	S2 & G2-Pattern Throw, ft.	3-5-10	4-6-11	5-8-12	6-9-13	7-10-14	9-11-15	10-12-17
	cfm Side A	28	35	42	49	56	70	84
	A3- Pattern-Side A, Throw, ft.	3-5-8	4-6-8	5-7-9	5-7-10	6-8-11	7-8-12	8-9-13
	cfm Side B	42	53	63	74	84	105	127
	A3- Pattern-Side B, Throw, ft.	4-6-10	5-7-11	6-8-12	7-9-13	8-10-13	9-11-15	10-12-17
	A4-Pattern Throw, ft.	3-5-7	4-6-8	5-6-9	6-7-10	6-7-11	7-8-12	7-9-13
12" x 12"	Total cfm	200	250	300	350	400	500	600
	NC	-	11	17	22	27	35	41
	S1-Pattern Throw, ft.	6-9-15	7-11-17	9-13-19	10-14-20	11-15-21	14-17-24	15-19-26
	S2 & G2-Pattern Throw, ft.	4-6-13	5-8-15	6-10-16	8-11-18	9-13-19	11-15-21	13-16-23
	cfm Side A	50	63	75	88	100	125	150
	A3- Pattern-Side A, Throw, ft.	3-6-9	5-7-10	6-8-11	7-8-12	7-9-13	8-10-14	9-11-15
	cfm Side B	75	94	113	131	150	188	225
	A3- Pattern-Side B, Throw, ft.	4-8-11	6-9-13	8-10-14	9-11-15	9-11-16	10-13-18	11-14-20
	A4-Pattern Throw, ft.	3-6-9	5-7-10	6-8-11	7-8-12	7-9-12	8-10-14	9-11-15
15" x 15"	Total cfm	313	391	469	547	625	781	938
	NC	-	15	21	26	30	38	44
	S1-Pattern Throw, ft.	9-12-18	11-14-20	12-15-22	13-16-23	14-18-25	16-20-28	18-22-30
	S2 & G2-Pattern Throw, ft.	5-8-13	6-10-15	8-11-17	9-13-18	10-13-19	12-15-21	13-17-23
	cfm Side A	78	98	117	137	156	195	234
	A3- Pattern-Side A, Throw, ft.	4-7-11	5-8-12	7-9-13	8-10-14	9-11-15	10-12-17	11-13-18
	cfm Side B	117	146	176	205	234	293	352
	A3- Pattern-Side B, Throw, ft.	6-9-13	8-11-15	9-12-16	10-13-18	11-13-19	12-15-21	13-16-23
	A4-Pattern Throw, ft.	4-7-11	6-8-12	7-9-13	8-10-14	9-11-15	10-12-17	11-13-19
18" x 18"	Total cfm	450	563	675	788	900	1125	1350
	NC	-	17	23	28	33	40	47
	S1-Pattern Throw, ft.	10-15-22	13-17-24	15-19-27	17-20-29	18-22-31	20-24-35	22-27-38
	S2 & G2-Pattern Throw, ft.	8-11-20	9-14-22	11-17-24	13-18-26	15-20-28	18-22-31	20-24-34
	cfm Side A	113	141	169	197	225	281	338
	A3- Pattern-Side A, Throw, ft.	5-7-13	6-9-14	7-11-15	9-12-17	10-13-18	11-14-20	13-15-22
	cfm Side B	169	211	253	295	338	422	506
	A3- Pattern-Side B, Throw, ft.	7-10-15	8-12-17	10-13-19	12-14-20	13-15-22	14-17-24	15-19-27
	A4-Pattern Throw, ft.	5-7-13	6-9-14	7-11-15	9-12-17	10-13-18	11-14-20	13-15-22

- All pressures are in inches of water
- Throw velocities given are for isothermal terminal velocities of 150, 100 and 50 fpm. See the section, Engineering Guidelines for additional information.
- NC values based on Octave Band 2 to 7 sound power levels minus a room absorption of 10 dB
- Dash (-) in space denotes an NC value less than 10
- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006
- Throw values given are for isothermal conditions

ISOTHERMAL
TDX / LOUVERED FACE, INDUCTION NOZZLES / ROUND NECK

Backpan Size	Inlet Duct Size	Neck Velocity, fpm	200	250	300	350	400	450	500
		Velocity Pressure, in. wg.	0.003	0.004	0.006	0.008	0.010	0.013	0.016
		Total Pressure, in. wg. (max)	0.015	0.024	0.034	0.046	0.061	0.077	0.095
9" x 9"	6" Round	Total cfm	39	49	59	69	79	88	98
		NC	-	-	-	-	-	12	16
		S1-Pattern Throw, ft.	1-2-4	1-2-5	2-3-6	2-3-7	3-4-8	3-4-9	3-5-10
		S2 & G2-Pattern Throw, ft.	1-2-4	2-2-5	2-3-6	2-3-7	3-4-8	3-4-8	3-5-9
		cfm Side A	10	12	15	17	20	22	25
		A3- Pattern-Side A, Throw, ft.	0-1-2	1-1-3	1-2-3	1-2-4	1-2-4	2-2-5	2-3-5
		cfm Side B	15	18	22	26	29	33	37
		A3- Pattern-Side B, Throw, ft.	1-2-3	1-2-4	2-2-5	2-3-5	2-3-6	2-4-6	3-4-6
	A4-Pattern Throw, ft.	0-1-2	1-1-3	1-2-3	1-2-4	1-2-4	2-3-5	2-3-6	
	8" Round	Total cfm	70	87	105	122	140	157	175
		NC	-	-	13	18	23	27	30
		S1-Pattern Throw, ft.	3-5-9	4-6-10	5-7-11	5-8-12	6-9-13	7-10-14	8-10-14
		S2 & G2-Pattern Throw, ft.	3-4-8	3-5-9	4-6-11	4-7-12	5-8-12	6-8-13	6-9-14
		cfm Side A	17	22	26	31	35	39	44
		A3- Pattern-Side A, Throw, ft.	2-3-5	2-3-6	3-4-7	3-4-8	3-5-8	4-6-9	4-6-9
		cfm Side B	26	33	39	46	52	59	65
A3- Pattern-Side B, Throw, ft.		3-4-6	3-5-7	4-5-8	5-6-8	5-6-9	5-7-9	6-7-10	
A4-Pattern Throw, ft.	2-3-5	2-3-7	3-4-7	3-5-8	3-5-9	4-6-9	4-7-10		

Backpan Size	Inlet Duct Size	Neck Velocity, fpm	200	250	300	350	400	450	500
		Velocity Pressure, in. wg.	0.003	0.004	0.006	0.008	0.010	0.013	0.016
		Total Pressure, in. wg. (max)	0.021	0.033	0.047	0.065	0.084	0.107	0.132
12" x 12"	8" Round	Total cfm	70	87	105	122	140	157	175
		NC	-	-	13	18	23	27	30
		S1-Pattern Throw, ft.	2-3-7	3-4-8	3-5-10	4-6-12	4-7-13	5-8-13	6-8-14
		S2 & G2-Pattern Throw, ft.	1-3-6	2-4-7	3-4-8	3-5-10	4-6-11	4-6-13	5-7-14
		cfm Side A	17	22	26	31	35	39	44
		A3- Pattern-Side A, Throw, ft.	1-2-4	2-2-5	2-3-5	2-3-6	2-4-7	3-4-8	3-5-9
		cfm Side B	26	33	39	46	52	59	65
		A3- Pattern-Side B, Throw, ft.	2-3-6	2-4-7	3-4-7	3-5-8	4-6-9	4-6-9	5-7-10
	A4-Pattern Throw, ft.	1-2-4	1-2-5	2-3-6	2-3-7	3-4-8	3-4-9	3-5-9	
	10" Round	Total cfm	109	136	164	191	218	245	273
		NC	-	-	15	20	25	29	32
		S1-Pattern Throw, ft.	2-4-9	3-5-11	4-6-13	5-8-15	6-9-17	6-10-19	7-11-21
		S2 & G2-Pattern Throw, ft.	2-4-8	3-5-11	4-6-13	5-7-14	6-8-15	6-10-16	7-11-17
		cfm Side A	27	34	41	48	55	61	68
		A3- Pattern-Side A, Throw, ft.	1-3-5	2-3-7	3-4-8	3-5-9	4-5-9	4-6-10	4-7-10
		cfm Side B	41	51	61	72	82	92	102
		A3- Pattern-Side B, Throw, ft.	2-4-7	3-4-9	4-5-11	4-6-12	5-7-12	5-8-13	6-9-14
	A4-Pattern Throw, ft.	1-3-5	2-3-7	3-4-8	3-5-9	4-5-9	4-6-10	5-7-10	
	12" Round	Total cfm	157	196	236	275	314	353	393
		NC	-	-	16	21	26	30	34
		S1-Pattern Throw, ft.	2-5-10	4-7-13	5-8-16	6-9-18	7-10-21	8-12-24	9-13-26
		S2 & G2-Pattern Throw, ft.	2-4-9	3-6-12	4-7-14	5-8-16	6-9-18	7-10-21	8-12-23
		cfm Side A	39	49	59	69	79	88	98
		A3- Pattern-Side A, Throw, ft.	2-3-6	3-4-8	3-5-10	4-6-11	4-6-12	5-7-13	5-8-14
cfm Side B		59	74	88	103	118	133	147	
A3- Pattern-Side B, Throw, ft.		3-4-9	4-6-11	4-7-12	5-8-13	6-9-14	7-10-15	7-11-16	
A4-Pattern Throw, ft.	2-3-7	3-4-8	3-5-10	4-6-11	4-7-11	5-7-12	6-8-13		

- All pressures are in inches of water
- Throw velocities given are for isothermal terminal velocities of 150, 100 and 50 fpm. See the section, Engineering Guidelines for additional information.
- NC values based on Octave Band 2 to 7 sound power levels minus a room absorption of 10 dB
- Dash (-) in space denotes an NC value less than 10
- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.
- Throw values given are for isothermal conditions



ISOTHERMAL
TDX / LOUVERED FACE, INDUCTION NOZZLES / SQUARE NECK

Backpan Size	Inlet Duct Size	Neck Velocity, fpm	400	450	500	550	600	650	700
				Velocity Pressure, in. wg.	0.010	0.013	0.016	0.019	0.022
		Total Pressure, in. wg. (max)	0.082	0.104	0.129	0.156	0.186	0.218	0.252
15" x 15"	10" Round	Total cfm	218	245	273	300	327	355	382
		NC	-	12	15	19	22	24	27
		S1-Pattern Throw, ft.	5-7-15	6-8-16	6-9-17	7-10-17	7-11-18	8-12-19	9-13-20
		S2 & G2-Pattern Throw, ft.	5-7-12	5-8-12	6-9-13	6-10-14	7-10-14	8-10-15	8-11-15
		cfm Side A	55	61	68	75	82	89	95
		A3- Pattern-Side A, Throw, ft.	3-5-8	4-5-9	4-6-9	4-6-9	5-7-10	5-7-10	5-8-11
		cfm Side B	82	92	102	112	123	133	143
		A3- Pattern-Side B, Throw, ft.	4-6-11	5-7-11	5-8-12	6-9-13	6-9-13	7-10-14	7-10-14
		A4-Pattern Throw, ft.	3-5-8	4-5-8	4-6-9	4-7-9	5-7-10	5-7-10	6-7-11
	12" Round	Total cfm	314	353	393	432	471	511	550
		NC	18	22	25	28	31	34	36
		S1-Pattern Throw, ft.	6-9-18	7-10-19	7-11-20	8-12-21	9-13-22	10-15-23	10-16-23
		S2 & G2-Pattern Throw, ft.	5-8-15	6-9-17	6-10-19	7-11-20	8-12-21	8-12-22	9-13-23
		cfm Side A	79	88	98	108	118	128	137
		A3- Pattern-Side A, Throw, ft.	4-6-11	4-6-11	5-7-12	5-8-12	6-8-13	6-9-14	7-10-14
		cfm Side B	118	133	147	162	177	191	206
		A3- Pattern-Side B, Throw, ft.	5-8-12	6-9-13	7-10-14	7-10-14	8-11-15	8-11-16	9-11-16
		A4-Pattern Throw, ft.	4-6-10	4-7-11	5-7-11	5-8-12	6-9-12	6-9-13	7-9-13
	14" Round	Total cfm	428	481	535	588	641	695	748
		NC	26	30	34	37	40	42	45
		S1-Pattern Throw, ft.	8-13-21	9-14-22	10-16-24	11-17-25	13-18-26	14-19-27	15-20-28
		S2 & G2-Pattern Throw, ft.	7-11-21	8-12-22	9-13-23	10-15-24	11-16-25	12-17-26	13-19-27
		cfm Side A	107	120	134	147	160	174	187
		A3- Pattern-Side A, Throw, ft.	5-8-13	6-9-13	7-10-14	7-10-15	8-11-15	9-11-16	9-12-17
cfm Side B		160	180	200	220	241	261	281	
A3- Pattern-Side B, Throw, ft.		7-10-15	8-11-16	9-12-16	10-12-17	10-13-18	11-13-19	11-14-19	
A4-Pattern Throw, ft.		5-8-12	6-9-13	7-9-13	8-10-14	8-10-15	9-11-15	9-11-16	

Backpan Size	Inlet Duct Size	Neck Velocity, fpm	600	650	700	750	800	850	900
				Velocity Pressure, in. wg.	0.022	0.026	0.031	0.035	0.040
		Total Pressure, in. wg. (max)	0.209	0.245	0.284	0.326	0.371	0.419	0.470
18" x 18"	12" Round	Total cfm	471	511	550	589	628	668	707
		NC	30	32	35	37	39	41	43
		S1-Pattern Throw, ft.	7-11-15	8-11-16	9-12-17	9-12-17	10-13-18	11-13-18	11-13-18
		S2 & G2-Pattern Throw, ft.	6-9-14	7-10-15	7-11-15	8-11-16	8-12-16	9-12-17	9-12-17
		cfm Side A	118	128	137	147	157	167	177
		A3- Pattern-Side A, Throw, ft.	5-7-11	5-8-11	6-8-12	6-9-12	6-9-13	7-9-13	7-10-13
		cfm Side B	177	191	206	221	236	250	265
		A3- Pattern-Side B, Throw, ft.	7-9-13	7-9-13	8-10-14	8-10-14	8-10-15	9-11-15	9-11-15
		A4-Pattern Throw, ft.	5-7-10	5-8-11	6-8-11	6-8-12	7-8-12	7-9-12	7-9-13
	14" Round	Total cfm	641	695	748	802	855	909	962
		NC	38	41	43	45	48	50	52
		S1-Pattern Throw, ft.	10-13-18	11-14-19	12-14-20	12-15-21	12-15-21	13-16-22	13-16-23
		S2 & G2-Pattern Throw, ft.	9-12-17	9-13-18	10-13-18	11-13-19	11-14-20	12-14-20	12-15-21
		cfm Side A	160	174	187	200	214	227	241
		A3- Pattern-Side A, Throw, ft.	7-9-13	7-10-14	8-10-14	8-10-15	9-11-15	9-11-16	9-11-16
		cfm Side B	241	261	281	301	321	341	361
		A3- Pattern-Side B, Throw, ft.	9-11-15	9-11-16	9-12-16	10-12-17	10-12-18	10-13-18	11-13-19
		A4-Pattern Throw, ft.	7-9-12	7-9-13	8-9-13	8-10-14	8-10-14	8-10-15	9-11-15
	16" Round	Total cfm	838	908	977	1047	1117	1187	1257
		NC	45	48	50	52	55	57	59
		S1-Pattern Throw, ft.	13-17-24	14-18-25	15-18-26	15-19-27	16-19-27	16-20-28	17-21-29
		S2 & G2-Pattern Throw, ft.	11-15-22	11-16-23	12-17-24	13-17-24	14-18-25	15-18-26	15-19-27
		cfm Side A	209	227	244	262	279	297	314
		A3- Pattern-Side A, Throw, ft.	8-12-17	9-12-18	10-13-18	10-13-19	11-14-20	12-14-20	12-15-21
cfm Side B		314	340	367	393	419	445	471	
A3- Pattern-Side B, Throw, ft.		11-14-20	12-14-20	12-15-21	13-15-22	13-16-23	13-16-23	14-17-24	
A4-Pattern Throw, ft.		9-11-16	9-12-16	10-12-17	10-13-18	11-13-18	11-13-19	11-14-19	

- All pressures are in inches of water
- Throw velocities given are for isothermal terminal velocities of 150, 100 and 50 fpm. See the section, Engineering Guidelines for additional information.
- NC values based on Octave Band 2 to 7 sound power levels minus a room absorption of 10 dB
- Dash (-) in space denotes an NC value less than 10
- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006
- Throw values given are for isothermal conditions

20ΔT COOLING
TDX / LOUVERED FACE, INDUCTION NOZZLES / SQUARE NECK

Inlet Duct Size	Neck Velocity, fpm	200	250	300	350	400	500	600
	Velocity Pressure, in. wg.	0.003	0.004	0.006	0.008	0.010	0.016	0.022
	Total Pressure, in. wg. (max)	0.027	0.043	0.062	0.084	0.110	0.171	0.247
9" x 9"	Total cfm	113	141	169	197	225	281	338
	NC	-	-	13	19	23	31	37
	S1-Pattern Throw, ft.	4-6-10	5-7-11	6-8-12	7-9-13	8-10-14	9-11-15	10-12-17
	S2 & G2-Pattern Throw, ft.	3-4-7	4-5-8	4-6-9	5-7-10	6-7-10	7-8-11	7-9-12
	cfm Side A	28	35	42	49	56	70	84
	A3- Pattern-Side A, Throw, ft.	3-4-6	3-4-6	4-5-7	4-5-7	5-6-8	5-6-9	6-7-10
	cfm Side B	42	53	63	74	84	105	127
	A3- Pattern-Side B, Throw, ft.	3-5-7	4-6-8	5-6-9	5-7-9	6-7-10	7-8-11	7-9-12
	A4-Pattern Throw, ft.	3-4-6	3-4-6	4-5-7	4-5-7	5-6-8	5-6-9	6-7-10
12" x 12"	Total cfm	200	250	300	350	400	500	600
	NC	-	11	17	22	27	35	41
	S1-Pattern Throw, ft.	5-7-12	6-9-13	7-10-14	8-11-16	10-12-17	11-13-19	12-14-20
	S2 & G2-Pattern Throw, ft.	4-6-10	5-7-11	6-8-12	6-9-13	7-10-14	9-11-16	10-12-17
	cfm Side A	50	63	75	88	100	125	150
	A3- Pattern-Side A, Throw, ft.	3-5-7	4-6-8	5-6-9	5-7-10	6-7-10	7-8-12	7-9-13
	cfm Side B	75	94	113	131	150	188	225
	A3- Pattern-Side B, Throw, ft.	5-7-9	6-7-11	7-8-12	7-9-12	8-9-13	9-11-15	9-12-16
	A4-Pattern Throw, ft.	3-5-7	4-6-8	5-6-9	6-7-10	6-7-11	7-8-12	7-9-13
15" x 15"	Total cfm	313	391	469	547	625	781	938
	NC	-	15	21	26	30	34	38
	S1-Pattern Throw, ft.	7-9-13	9-10-15	9-11-16	10-12-17	11-13-19	12-15-21	13-16-23
	S2 & G2-Pattern Throw, ft.	4-7-10	5-8-11	7-9-12	8-9-13	8-10-14	9-11-16	10-12-18
	cfm Side A	78	98	117	137	156	195	234
	A3- Pattern-Side A, Throw, ft.	4-6-8	5-6-9	6-7-10	6-7-11	7-8-11	7-9-13	8-10-14
	cfm Side B	117	146	176	205	234	293	352
	A3- Pattern-Side B, Throw, ft.	5-7-10	7-8-11	7-9-12	8-9-13	8-10-14	9-11-16	10-12-17
	A4-Pattern Throw, ft.	4-6-9	5-7-10	6-8-11	7-9-12	7-9-13	8-10-15	9-11-16
18" x 18"	Total cfm	450	563	675	788	900	1125	1350
	NC	-	17	23	28	33	40	47
	S1-Pattern Throw, ft.	9-12-16	11-13-18	12-14-20	13-15-22	13-16-23	15-18-26	16-20-28
	S2 & G2-Pattern Throw, ft.	6-10-14	8-11-16	10-12-17	11-13-18	11-14-20	13-16-22	14-17-24
	cfm Side A	113	141	169	197	225	281	338
	A3- Pattern-Side A, Throw, ft.	4-6-9	5-7-10	6-8-11	7-9-12	8-9-13	8-10-15	9-11-16
	cfm Side B	169	211	253	295	338	422	506
	A3- Pattern-Side B, Throw, ft.	6-8-12	7-9-13	8-10-14	9-11-16	10-12-17	11-13-19	12-14-20
	A4-Pattern Throw, ft.	4-6-9	5-7-10	6-8-11	7-9-12	8-9-13	9-10-15	9-11-16

- All pressures are in inches of water
- Throw velocities given are for 20° cooling at terminal velocities of 150, 100 and 50 fpm. See the section, Engineering Guidelines for additional information.
- NC values based on Octave Band 2 to 7 sound power levels minus a room absorption of 10 dB
- Dash (-) in space denotes an NC value less than 10
- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006
- Throw values given are for cooling conditions

20ΔT COOLING
TDX / LOUVERED FACE, INDUCTION NOZZLES / ROUND NECK

Backpan Size	Inlet Duct Size	Neck Velocity, fpm	200	250	300	350	400	450	500
		Velocity Pressure, in. wg.	0.003	0.004	0.006	0.008	0.010	0.013	0.016
		Total Pressure, in. wg. (max)	0.024	0.037	0.053	0.073	0.095	0.120	0.148
9" x 9"	6" Round	Total cfm	39	49	59	69	79	88	98
		NC	-	-	-	-	-	12	16
		S1-Pattern Throw, ft.	1-2-3	1-2-4	2-2-5	2-3-6	2-3-6	2-4-7	3-4-7
		S2 & G2-Pattern Throw, ft.	1-2-3	1-2-3	2-2-4	2-3-4	2-3-4	2-3-5	3-3-5
		cfm Side A	10	12	15	17	20	22	25
		A3- Pattern-Side A, Throw, ft.	0-1-2	1-1-2	1-1-3	1-2-3	1-2-4	1-2-4	2-2-5
		cfm Side B	15	18	22	26	29	33	37
		A3- Pattern-Side B, Throw, ft.	1-1-3	1-2-3	1-2-4	2-2-4	2-3-4	2-3-5	2-3-5
	A4-Pattern Throw, ft.	0-1-2	1-1-2	1-1-3	1-2-3	1-2-4	1-2-4	2-2-5	
	8" Round	Total cfm	70	87	105	122	140	157	175
		NC	-	-	13	18	23	27	30
		S1-Pattern Throw, ft.	3-4-7	3-5-8	4-6-8	5-6-9	5-7-10	6-7-10	6-8-11
		S2 & G2-Pattern Throw, ft.	2-3-6	3-4-7	3-5-8	4-6-9	4-6-9	5-7-10	5-7-10
		cfm Side A	17	22	26	31	35	39	44
		A3- Pattern-Side A, Throw, ft.	1-2-4	2-3-5	2-3-5	2-4-6	3-4-6	3-5-6	4-5-7
		cfm Side B	26	33	39	46	52	59	65
A3- Pattern-Side B, Throw, ft.		2-3-5	3-4-5	3-4-6	4-4-6	4-5-7	4-5-7	4-5-7	
A4-Pattern Throw, ft.	1-2-4	2-3-5	2-3-6	3-4-6	3-4-6	3-5-7	4-5-7		

Backpan Size	Inlet Duct Size	Neck Velocity, fpm	200	250	300	350	400	450	500
		Velocity Pressure, in. wg.	0.003	0.004	0.006	0.008	0.010	0.013	0.016
		Total Pressure, in. wg. (max)	0.024	0.037	0.053	0.073	0.095	0.120	0.148
12" x 12"	8" Round	Total cfm	70	87	105	122	140	157	175
		NC	-	-	13	18	23	27	30
		S1-Pattern Throw, ft.	2-3-6	2-4-7	3-4-8	3-5-9	4-6-9	4-6-10	5-7-11
		S2 & G2-Pattern Throw, ft.	1-2-5	2-3-6	2-4-6	3-4-7	3-5-7	4-5-8	4-6-8
		cfm Side A	17	22	26	31	35	39	44
		A3- Pattern-Side A, Throw, ft.	1-2-3	1-2-4	2-2-5	2-3-5	2-3-6	2-3-6	3-4-7
		cfm Side B	26	33	39	46	52	59	65
		A3- Pattern-Side B, Throw, ft.	2-2-5	2-3-5	2-4-6	3-4-6	3-5-6	4-5-7	4-5-7
	A4-Pattern Throw, ft.	1-2-3	1-2-4	2-2-5	2-3-6	2-3-6	2-4-7	3-4-7	
	10" Round	Total cfm	109	136	164	191	218	245	273
		NC	-	-	15	20	25	29	32
		S1-Pattern Throw, ft.	2-4-7	3-5-9	4-5-10	4-6-11	5-7-12	5-8-13	6-9-13
		S2 & G2-Pattern Throw, ft.	1-3-6	2-4-8	3-5-9	4-5-9	4-6-10	5-7-11	5-8-11
		cfm Side A	27	34	41	48	55	61	68
		A3- Pattern-Side A, Throw, ft.	1-2-5	2-3-6	2-3-6	3-4-7	3-5-7	3-5-7	4-6-8
		cfm Side B	41	51	61	72	82	92	102
		A3- Pattern-Side B, Throw, ft.	2-3-6	2-4-6	3-4-7	3-5-8	4-6-8	4-6-9	5-6-9
	A4-Pattern Throw, ft.	1-2-5	2-3-5	2-3-6	3-4-6	3-5-7	3-5-7	4-5-8	
	12" Round	Total cfm	157	196	236	275	314	353	393
		NC	-	-	16	21	26	30	34
		S1-Pattern Throw, ft.	2-4-9	4-6-11	4-7-13	5-8-15	6-9-16	7-10-17	7-11-18
		S2 & G2-Pattern Throw, ft.	2-4-8	3-5-10	4-6-12	5-7-13	5-8-14	6-9-15	7-10-16
		cfm Side A	39	49	59	69	79	88	98
		A3- Pattern-Side A, Throw, ft.	2-3-6	2-4-7	3-4-7	3-5-8	4-6-8	4-6-9	5-7-9
cfm Side B		59	74	88	103	118	133	147	
A3- Pattern-Side B, Throw, ft.		3-4-7	3-5-8	4-6-9	4-7-9	5-7-10	6-7-10	6-8-11	
A4-Pattern Throw, ft.	2-3-6	2-4-6	3-4-7	3-5-8	4-6-8	4-6-9	5-6-9		

- All pressures are in inches of water
- Throw velocities given are for 20° cooling at terminal velocities of 150, 100 and 50 fpm. See the section, Engineering Guidelines for additional information.
- NC values based on Octave Band 2 to 7 sound power levels minus a room absorption of 10 dB
- Dash (-) in space denotes an NC value less than 10
- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006
- Throw values given are for cooling conditions

20ΔT COOLING
TDX / LOUVERED FACE, INDUCTION NOZZLES / ROUND NECK

Backpan Size	Inlet Duct Size	Performance Data							
		Neck Velocity, fpm	400	450	500	550	600	650	700
		Velocity Pressure, in. wg.	0.010	0.013	0.016	0.019	0.022	0.026	0.031
		Total Pressure, in. wg. (max)	0.095	0.120	0.148	0.179	0.213	0.250	0.290
15" x 15"	10" Round	Total cfm	218	245	273	300	327	355	382
		NC	-	12	15	19	22	24	27
		S1-Pattern Throw, ft.	4-6-11	5-7-12	5-8-12	6-9-13	6-9-14	7-10-14	7-10-15
		S2 & G2-Pattern Throw, ft.	4-6-9	5-7-9	5-7-10	6-7-10	6-8-11	6-8-11	7-8-12
		cfm Side A	55	61	68	75	82	89	95
		A3- Pattern-Side A, Throw, ft.	3-4-6	3-5-6	3-5-7	4-5-7	4-5-7	4-5-8	5-6-8
		cfm Side B	82	92	102	112	123	133	143
		A3- Pattern-Side B, Throw, ft.	4-5-8	4-6-9	4-6-9	5-7-10	5-7-10	6-7-10	6-8-11
	A4-Pattern Throw, ft.	3-4-6	3-4-6	3-5-7	4-5-7	4-5-7	4-5-8	5-6-8	
	12" Round	Total cfm	314	353	393	432	471	511	550
		NC	18	22	25	28	31	34	36
		S1-Pattern Throw, ft.	5-8-13	6-9-14	6-9-15	7-10-16	8-11-16	8-12-17	9-12-18
		S2 & G2-Pattern Throw, ft.	4-7-13	5-7-14	5-8-14	6-9-15	7-10-16	7-11-16	8-11-17
		cfm Side A	79	88	98	108	118	128	137
A3- Pattern-Side A, Throw, ft.		3-5-8	4-5-8	4-6-9	4-7-9	5-7-10	5-7-10	6-7-11	
cfm Side B		118	133	147	162	177	191	206	
A3- Pattern-Side B, Throw, ft.		4-7-9	5-7-10	6-7-10	6-8-11	7-8-11	7-8-12	7-9-12	
A4-Pattern Throw, ft.	3-5-7	4-6-8	4-6-8	5-6-9	5-6-9	5-7-9	6-7-10		
14" Round	Total cfm	428	481	535	588	641	695	748	
	NC	26	30	34	37	40	42	45	
	S1-Pattern Throw, ft.	7-11-16	8-12-17	9-13-18	10-13-19	11-14-19	12-14-20	12-15-21	
	S2 & G2-Pattern Throw, ft.	6-9-15	7-10-16	8-11-17	8-13-18	9-13-19	10-14-20	11-14-20	
	cfm Side A	107	120	134	147	160	174	187	
	A3- Pattern-Side A, Throw, ft.	4-7-9	5-7-10	6-8-11	6-8-11	7-8-12	7-9-12	7-9-13	
	cfm Side B	160	180	200	220	241	261	281	
	A3- Pattern-Side B, Throw, ft.	6-8-11	7-8-12	7-9-12	7-9-13	8-10-13	8-10-14	8-10-15	
A4-Pattern Throw, ft.	5-6-9	5-7-9	6-7-10	6-7-10	6-8-11	7-8-11	7-8-12		

Backpan Size	Inlet Duct Size	Performance Data							
		Neck Velocity, fpm	600	650	700	750	800	850	900
		Velocity Pressure, in. wg.	0.022	0.026	0.031	0.035	0.040	0.045	0.051
		Total Pressure, in. wg. (max)	0.213	0.250	0.290	0.333	0.379	0.428	0.480
18" x 18"	12" Round	Total cfm	471	511	550	589	628	668	707
		NC	29	32	34	37	39	41	43
		S1-Pattern Throw, ft.	6-8-12	7-9-12	7-9-13	7-9-13	8-9-13	8-10-14	8-10-14
		S2 & G2-Pattern Throw, ft.	5-8-11	6-8-11	6-8-12	7-8-12	7-9-12	7-9-13	8-9-13
		cfm Side A	118	128	137	147	157	167	177
		A3- Pattern-Side A, Throw, ft.	4-6-8	4-6-9	5-6-9	5-7-9	5-7-10	6-7-10	6-7-10
		cfm Side B	177	191	206	221	236	250	265
		A3- Pattern-Side B, Throw, ft.	6-7-10	6-7-10	6-7-10	6-8-11	6-8-11	7-8-11	7-8-12
	A4-Pattern Throw, ft.	4-5-8	5-6-8	5-6-8	5-6-9	5-6-9	5-6-9	5-7-9	
	14" Round	Total cfm	641	695	748	802	855	909	962
		NC	38	41	43	45	48	50	52
		S1-Pattern Throw, ft.	8-10-14	8-10-14	9-11-15	9-11-15	9-11-16	10-12-16	10-12-17
		S2 & G2-Pattern Throw, ft.	7-9-13	8-9-13	8-10-14	8-10-14	8-10-15	9-11-15	9-11-16
		cfm Side A	160	174	187	200	214	227	241
A3- Pattern-Side A, Throw, ft.		6-7-10	6-7-10	6-8-11	6-8-11	7-8-11	7-8-12	7-9-12	
cfm Side B		241	261	281	301	321	341	361	
A3- Pattern-Side B, Throw, ft.		7-8-11	7-8-12	7-9-12	7-9-13	8-9-13	8-10-14	8-10-14	
A4-Pattern Throw, ft.	5-7-9	6-7-10	6-7-10	6-7-10	6-8-11	6-8-11	7-8-11		
16" Round	Total cfm	838	908	977	1047	1117	1187	1257	
	NC	42	45	47	50	52	54	56	
	S1-Pattern Throw, ft.	10-13-18	11-13-19	11-14-19	12-14-20	12-15-21	12-15-21	13-15-22	
	S2 & G2-Pattern Throw, ft.	9-12-16	10-12-17	10-13-18	11-13-18	11-13-19	11-14-20	12-14-20	
	cfm Side A	209	227	244	262	279	297	314	
	A3- Pattern-Side A, Throw, ft.	7-9-13	8-9-13	8-10-14	8-10-14	8-10-15	9-11-15	9-11-16	
	cfm Side B	314	340	367	393	419	445	471	
	A3- Pattern-Side B, Throw, ft.	8-10-15	9-11-15	9-11-16	9-12-16	10-12-17	10-12-17	10-13-18	
A4-Pattern Throw, ft.	7-8-12	7-9-12	7-9-13	8-9-13	8-10-14	8-10-14	8-10-15		

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