ENGINEERING DATA

T50, T60, T52, T62, T54, T64

Nom Duct Size	Core Vel. (fpm)		300	400	500	600	700	800	1000	1200	1400
	Vel. Pressure		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
	Total Pressure	0º	0.016	0.029	0.046	0.066	0.090	0.117	0.183	0.263	0.358
		22.5º	0.018	0.033	0.051	0.074	0.100	0.131	0.204	0.294	0.401
		45º	0.028	0.049	0.077	0.111	0.152	0.198	0.309	0.445	0.606

6x6	Airflow (CFM)		57	76	95	114	133	152	190	228	266
	Throw (ft.)	0º	5-7-14	7-10-16	8-12-18	10-14-20	12-15-21	13-16-23	15-18-25	16-20-28	17-21-30
		22.5º	4-6-11	5-8-12	6-10-14	8-11-15	9-12-16	10-12-18	11-14-20	12-15-22	13-16-23
		45º	2-3-6	3-4-7	4-6-8	4-6-9	5-7-10	6-7-10	7-8-11	7-9-12	8-10-13
	NC		-	-	-	15	20	24	31	36	41

8x6	Airflow (CFM)		78	104	130	156	182	208	260	312	364
	Throw (ft.)	0º	5-9-16	8-12-19	10-15-21	12-16-23	14-18-25	15-19-27	17-21-30	19-23-32	20-25-35
		22.5º	4-7-13	6-9-15	8-11-16	9-13-18	11-14-19	12-15-21	13-16-23	15-18-25	16-19-27
		45º	2-4-7	3-5-8	4-7-9	5-7-10	6-8-11	7-8-12	8-9-13	8-10-15	9-11-16
	NC		-	-	11	17	21	25	32	38	42

10x6	Airflow (CFM)		102	136	170	204	238	272	340	408	476
	Throw (ft.)	0º	6-10-19	9-13-21	11-17-24	13-19-26	16-20-28	18-21-30	20-24-34	21-26-37	23-28-40
		22.5º	5-8-14	7-10-17	9-13-19	10-14-20	12-16-22	14-17-23	15-19-26	17-20-29	18-22-31
		45º	3-4-8	4-6-10	5-7-11	6-8-12	7-9-13	8-10-14	9-11-15	10-12-17	10-13-18
	NC		-	-	12	18	23	27	33	39	43

8x8	Airflow (CFM)		111	148	185	222	259	296	370	444	518
	Throw (ft.)	0º	6-10-19	9-14-22	12-17-25	14-19-27	16-21-30	18-22-32	20-25-35	22-27-39	24-30-42
		22.5º	5-8-15	7-11-17	9-13-19	11-15-21	13-16-23	14-17-25	16-19-27	17-21-30	19-23-32
		45º	3-5-9	4-6-10	5-8-11	6-9-12	7-9-13	8-10-14	9-11-16	10-12-17	11-13-19
	NC		-	-	13	18	23	27	34	39	44

12x6	Airflow (CFM)		123	164	205	246	287	328	410	492	574
	Throw (ft.)	0º	7-11-20	10-15-24	12-18-26	15-20-29	17-22-31	19-24-33	21-26-37	24-29-41	25-31-44
		22.5º	5-8-16	8-11-18	9-14-20	11-16-22	13-17-24	15-18-26	17-20-29	18-22-32	20-24-34
		45º	3-5-9	4-7-11	5-8-12	7-9-13	8-10-14	9-11-15	10-12-17	11-13-18	11-14-20
	NC		-	-	13	19	23	27	34	40	44

14x6	Airflow (CFM)		144	192	240	288	336	384	480	576	672
	Throw (ft.)	0º	7-12-22	11-16-25	13-20-28	16-22-31	18-24-34	21-25-36	23-28-40	25-31-44	28-34-48
		22.5º	6-9-17	8-12-20	10-15-22	12-17-24	14-18-26	16-20-28	18-22-31	20-24-34	21-26-37
		45º	3-5-10	5-7-11	6-9-13	7-10-14	8-11-15	9-11-16	10-13-18	11-14-20	12-15-21
	NC		-	-	14	19	24	28	35	40	45

16x6 12x8	Airflow (CFM)		171	228	285	342	399	456	570	684	798
	Throw (ft.)	0º	8-13-24	11-17-28	14-22-31	17-24-34	20-26-37	23-28-39	25-31-44	28-34-48	30-37-52
		22.5º	6-10-19	9-13-22	11-17-24	13-19-26	16-20-28	18-22-30	20-24-34	22-26-37	23-28-40
		45º	4-6-11	5-8-12	6-10-14	8-11-15	9-12-17	10-12-18	11-14-20	12-15-22	13-17-23
	NC		-	-	15	20	25	29	35	41	45

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Performance data includes damper in the full open position.
4. 0º, 22.5º and 45º represent blade deflection angles.
5. Units: Face Velocity = fpm; Total Pressure = in. wc
6. Throw based on terminal velocities of 150 fpm, 100 fpm and 50 fpm.
7. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 through 4000 Hz octave bands.
8. Dash "-" indicates NC value less than 10.

ENGINEERING DATA

T50, T60, T52, T62, T54, T64

Nom Duct Size	Core Vel. (fpm)		300	400	500	600	700	800	1000	1200	1400
	Vel. Pressure		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
	Total Pressure	0º	0.016	0.029	0.046	0.066	0.090	0.117	0.183	0.263	0.358
		22.5º	0.018	0.033	0.051	0.074	0.100	0.131	0.204	0.294	0.401
		45º	0.028	0.049	0.077	0.111	0.152	0.198	0.309	0.445	0.606

10x10	Airflow (CFM)		177	236	295	354	413	472	590	708	826
	Throw (ft.)	0º	8-13-24	12-18-28	15-22-32	18-24-35	20-26-37	23-28-40	26-32-45	28-35-49	31-37-53
		22.5º	6-10-19	9-14-22	11-17-24	14-19-27	16-20-29	18-22-31	20-24-35	22-27-38	24-29-41
		45º	4-6-11	5-8-13	7-10-14	8-11-16	9-12-17	10-13-18	12-14-20	13-16-22	14-17-24
	NC		-	-	15	20	25	29	35	41	46

18x6	Airflow (CFM)		189	252	315	378	441	504	630	756	882
	Throw (ft.)	0º	8-14-25	12-18-29	15-23-33	18-25-36	21-27-39	24-29-41	27-33-46	29-36-51	32-39-55
		22.5º	7-11-20	9-14-23	12-18-25	14-20-28	16-21-30	18-23-32	21-25-36	23-28-39	24-30-42
		45º	4-6-11	5-8-13	7-10-15	8-11-16	9-12-17	11-13-19	12-15-21	13-16-23	14-17-25
	NC		-	-	15	20	25	29	36	41	46

20x6 12x10	Airflow (CFM)		216	288	360	432	504	576	720	864	1008
	Throw (ft.)	0º	9-15-27	13-19-31	16-24-35	19-27-38	23-29-41	25-31-44	28-35-49	31-38-54	24-41-58
		22.5º	7-11-21	10-15-24	12-19-27	15-21-30	17-23-32	20-24-34	22-27-38	24-30-42	26-32-45
		45º	4-7-12	6-9-14	7-11-16	9-12-17	10-13-19	11-14-20	13-16-22	14-17-24	15-19-26
	NC		-	-	16	21	26	30	36	42	46

22x6	Airflow (CFM)		231	308	385	462	539	616	770	924	1078
	Throw (ft.)	0º	9-15-28	13-20-32	17-25-36	20-28-40	23-30-43	26-32-46	29-36-51	32-40-56	35-43-60
		22.5º	7-12-22	10-16-25	13-19-28	16-22-31	18-23-33	20-25-35	23-28-40	25-31-43	27-33-47
		45º	4-7-13	6-9-15	8-11-16	9-13-18	11-14-19	12-15-21	13-16-23	15-18-25	16-19-27
	NC		-	-	16	21	26	30	37	42	47

24x6 18x8 12x12	Airflow (CFM)		264	352	440	528	616	704	880	1056	1232
	Throw (ft.)	0º	10-16-30	14-21-34	18-27-39	21-30-42	25-32-46	28-34-49	31-39-55	34-42-60	37-46-65
		22.5º	8-12-23	11-17-27	14-21-30	17-23-33	19-25-35	22-27-38	24-30-42	27-33-46	29-35-50
		45º	4-7-13	6-10-16	8-12-17	10-13-19	11-15-21	13-16-22	14-17-25	16-19-27	17-21-29
	NC		-	-	16	22	26	30	37	43	47

30x6 18x10	Airflow (CFM)		333	444	555	666	777	888	1110	1332	1554
	Throw (ft.)	0º	11-18-34	16-24-39	20-30-43	24-34-47	28-36-51	32-39-55	25-43-61	39-47-67	42-51-72
		22.5º	9-14-26	12-19-30	16-23-34	19-26-37	22-28-40	25-30-42	27-34-47	30-37-52	32-40-56
		45º	5-8-15	7-11-17	9-14-19	11-15-21	13-16-23	14-17-25	16-19-28	17-21-30	19-23-33
	NC		-	-	17	23	27	31	38	44	48

14x14	Airflow (CFM)		366	488	610	732	854	976	1220	1464	1708
	Throw (ft.)	0º	12-19-35	17-25-41	21-31-45	25-35-50	29-38-54	33-41-57	37-45-64	41-50-70	44-54-76
		22.5º	9-15-27	13-20-31	16-24-35	20-27-39	23-29-42	26-31-45	29-35-50	31-39-55	34-42-59
		45º	5-8-16	8-11-18	9-14-20	11-16-22	13-17-24	15-18-26	17-20-29	18-22-32	20-24-34
	NC		-	11	18	23	28	32	39	44	49

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Performance data includes damper in the full open position.
4. 0º, 22.5º and 45º represent blade deflection angles.
5. Units: Face Velocity = fpm; Total Pressure = in. wc
6. Throw based on terminal velocities of 150 fpm, 100 fpm and 50 fpm.
7. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 through 4000 Hz octave bands.
8. Dash "-" indicates NC value less than 10.

ENGINEERING DATA

T50, T60, T52, T62, T54, T64

Nom Duct Size	Core Vel. (fpm)		300	400	500	600	700	800	1000	1200	1400
	Vel. Pressure		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
	Total Pressure	0º	0.016	0.029	0.046	0.066	0.090	0.117	0.183	0.263	0.358
		22.5º	0.018	0.033	0.051	0.074	0.100	0.131	0.204	0.294	0.401
		45º	0.028	0.049	0.077	0.111	0.152	0.198	0.309	0.445	0.606

	Airflow (CFM)		405	540	675	810	945	1080	1350	1620	1890
36x6 27x8 18x12	Throw (ft.)	0º	12-20-37	18-26-43	22-33-48	26-37-52	31-40-57	25-43-60	39-48-68	43-52-74	46-57-80
		22.5º	10-15-29	14-21-33	17-26-37	21-29-41	24-31-44	27-33-47	30-37-52	33-41-57	36-44-62
		45º	6-9-17	8-12-19	10-15-21	12-17-24	14-18-25	16-19-27	18-21-30	19-24-33	21-25-36
	NC		-	12	18	24	28	32	39	44	49

	Airflow (CFM)		411	548	685	822	959	1096	1370	1644	1918
22x10	Throw (ft.)	0º	12-20-37	18-27-43	22-33-48	27-37-53	31-40-57	35-43-61	39-48-68	43-53-75	46-57-81
		22.5º	10-16-29	14-21-33	17-26-37	21-29-41	24-31-44	27-33-47	30-37-53	33-41-58	36-44-62
		45º	6-9-17	8-12-19	10-15-22	12-17-24	14-18-26	16-19-27	18-22-31	19-24-34	21-26-36
	NC		-	12	18	24	28	32	39	44	49

	Airflow (CFM)		447	596	745	894	1043	1192	1490	1788	2086
30x8 24x10	Throw (ft.)	0º	13-21-39	19-28-45	23-35-50	28-39-55	32-42-59	37-45-63	41-50-71	45-55-78	48-59-84
		22.5º	10-16-30	14-22-35	18-27-39	22-30-43	25-33-46	28-35-49	32-39-55	35-43-60	38-46-65
		45º	6-9-17	8-13-20	10-16-23	13-17-25	15-19-27	16-20-29	18-23-32	20-25-35	22-27-38
	NC		-	12	19	24	29	33	39	45	49

	Airflow (CFM)		477	636	795	954	1113	1272	1590	1908	2256
42x6 18x14	Throw (ft.)	0º	13-22-40	19-29-46	24-36-52	29-40-57	34-43-61	38-46-66	42-52-73	46-57-80	50-61-87
		22.5º	10-17-31	15-22-36	19-28-40	22-31-44	26-34-48	29-36-51	33-40-57	36-44-62	39-48-67
		45º	6-10-18	9-13-21	11-16-23	13-18-26	15-20-28	17-21-30	19-23-33	21-26-36	23-28-39
	NC		-	12	19	24	29	33	40	45	50

	Airflow (CFM)		486	648	810	972	1134	1296	1620	1944	2268
16x16	Throw (ft.)	0º	14-22-41	19-29-47	24-36-52	29-41-57	34-44-62	38-47-66	43-52-74	47-57-81	51-62-88
		22.5º	11-17-31	15-22-36	19-28-41	23-31-44	26-34-48	30-36-51	33-41-57	36-44-63	39-48-68
		45º	6-10-18	9-13-21	11-16-24	13-18-26	15-20-28	17-21-30	19-24-33	21-26-36	23-28-39
	NC		-	12	19	24	29	33	40	45	50

	Airflow (CFM)		546	728	910	1092	1274	1456	1820	2184	2548
48x6 36x8 24x12 18x16	Throw (ft.)	0º	14-23-43	20-31-50	26-38-55	31-43-61	36-46-66	41-50-70	45-55-78	50-61-86	54-66-93
		22.5º	11-18-33	16-24-38	20-30-43	24-33-47	28-36-51	31-38-54	35-43-61	38-47-67	42-51-72
		45º	6-10-19	9-14-22	12-17-25	14-19-27	16-21-30	18-22-32	20-25-35	22-27-39	24-30-42
	NC		-	13	19	25	30	34	40	46	50

	Airflow (CFM)		621	828	1035	1242	1449	1656	2070	2484	2898
18x18	Throw (ft.)	0º	15-25-46	22-33-53	27-41-59	33-46-65	38-49-70	43-53-75	48-59-84	53-65-92	57-70-99
		22.5º	12-19-36	17-25-41	21-32-46	25-36-50	30-38-54	33-41-58	37-46-65	41-50-71	44-54-77
		45º	7-11-21	10-15-24	12-18-27	15-21-29	17-22-31	19-24-34	22-27-38	24-29-41	26-31-45
	NC		-	13	20	25	30	34	41	46	51

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Performance data includes damper in the full open position.
4. 0º, 22.5º and 45º represent blade deflection angles.
5. Units: Face Velocity = fpm; Total Pressure = in. wc
6. Throw based on terminal velocities of 150 fpm, 100 fpm and 50 fpm.
7. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 through 4000 Hz octave bands.
8. Dash "-" indicates NC value less than 10.

ENGINEERING DATA

T50, T60, T52, T62, T54, T64

Nom Duct Size	Core Vel. (fpm)		300	400	500	600	700	800	1000	1200	1400
	Vel. Pressure		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
	Total Pressure	0º	0.016	0.029	0.046	0.066	0.090	0.117	0.183	0.263	0.358
		22.5º	0.018	0.033	0.051	0.074	0.100	0.131	0.204	0.294	0.401
		45º	0.028	0.049	0.077	0.111	0.152	0.198	0.309	0.445	0.606

42x8 24x14	Airflow (CFM)		642	856	1070	1284	1498	1712	2140	2568	2996
	Throw (ft.)	0º	16-25-47	22-33-54	28-42-60	33-47-66	39-50-71	44-54-76	49-60-85	54-66-93	58-71-101
		22.5º	12-19-36	17-26-42	22-32-47	26-36-51	30-39-55	32-42-59	38-47-66	45-51-72	45-55-78
		45º	7-11-21	10-15-24	13-19-27	15-21-30	18-23-32	20-24-34	22-27-38	24-30-42	26-32-45
	NC		-	13	20	26	30	34	41	46	51

36x10 30x12	Airflow (CFM)		687	916	1145	1374	1603	1832	2290	2748	3206
	Throw (ft.)	0º	16-26-48	23-34-56	29-43-62	34-48-68	40-52-74	45-56-79	51-62-88	56-68-96	60-74-104
		22.5º	12-20-37	18-27-43	22-33-48	27-37-53	31-40-57	35-43-61	39-48-68	43-53-75	47-57-81
		45º	7-12-22	10-16-25	13-19-28	16-22-31	18-23-33	20-25-35	23-28-40	25-31-43	27-33-47
	NC		-	14	20	26	30	34	41	47	51

48x8 24x16	Airflow (CFM)		738	984	1230	1476	1722	1968	2460	2952	3444
	Throw (ft.)	0º	17-27-50	24-36-58	30-45-64	36-50-71	42-54-76	47-58-82	53-64-91	58-71-100	62-76-108
		22.5º	13-21-39	18-28-45	23-35-50	28-39-55	32-42-59	36-45-63	41-50-71	45-55-77	48-59-84
		45º	8-12-22	11-16-26	13-20-29	16-22-32	19-24-34	21-26-37	24-29-41	26-32-45	28-34-49
	NC		-	14	21	26	31	35	41	47	51

20x20	Airflow (CFM)		771	1028	1285	1542	1799	2056	2570	3084	3598
	Throw (ft.)	0º	17-27-51	24-37-59	30-46-66	37-51-75	43-55-78	48-59-83	54-66-93	59-72-102	64-78-110
		22.5º	13-21-40	19-28-46	24-35-51	28-40-56	33-43-60	37-46-65	42-51-72	46-56-79	49-60-85
		45º	8-12-23	11-16-27	14-21-30	16-23-32	19-25-35	22-27-38	24-30-42	27-32-46	29-35-50
	NC		-	14	21	26	31	35	42	47	52

36x12 24x18	Airflow (CFM)		825	1100	1375	1650	1925	2200	2750	3300	3850
	Throw (ft.)	0º	18-28-53	25-38-61	31-47-68	38-53-75	44-57-81	50-61-86	56-68-96	61-75-106	68-81-114
		22.5º	14-22-41	20-29-47	24-37-53	29-41-58	34-44-63	39-47-67	43-53-75	47-58-82	51-63-88
		45º	8-13-24	11-17-27	14-21-31	17-24-34	20-26-36	22-27-39	25-31-43	27-34-48	30-36-51
	NC		-	15	21	27	31	35	42	47	52

48x10 30x16 24x20	Airflow (CFM)		933	1244	1555	1866	2177	2488	3110	3732	4354
	Throw (ft.)	0º	19-30-56	27-40-65	33-50-72	40-56-79	47-61-86	53-65-92	59-72-103	65-79-112	70-86-121
		22.5º	15-23-44	21-31-50	26-39-56	31-44-62	36-47-66	41-50-71	46-56-79	50-62-87	54-66-94
		45º	8-14-25	12-18-29	15-23-33	18-25-36	21-27-39	24-29-41	27-33-46	29-36-51	32-39-55
	NC		-	15	22	27	32	36	42	48	52

22x22	Airflow (CFM)		942	1256	1570	1884	2198	2512	3140	3768	4396
	Throw (ft.)	0º	19-30-56	27-40-65	34-50-73	40-56-80	47-61-86	53-65-92	59-73-103	65-80-113	70-86-122
		22.5º	15-23-44	21-31-50	26-39-56	31-44-62	37-47-67	41-50-71	46-56-80	50-62-87	55-67-94
		45º	8-14-25	12-18-29	15-23-33	18-25-36	21-27-39	24-29-41	27-33-46	29-36-51	32-39-55
	NC		-	15	22	27	32	36	42	48	53

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Performance data includes damper in the full open position.
4. 0º, 22.5º and 45º represent blade deflection angles.
5. Units: Face Velocity = fpm; Total Pressure = in. wc
6. Throw based on terminal velocities of 150 fpm, 100 fpm and 50 fpm.
7. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 through 4000 Hz octave bands.
8. Dash "-" indicates NC value less than 10.

ENGINEERING DATA

T50, T60, T52, T62, T54, T64

Nom Duct Size	Core Vel. (fpm)		300	400	500	600	700	800	1000	1200	1400
	Vel. Pressure		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
	Total Pressure	0º	0.016	0.029	0.046	0.066	0.090	0.117	0.183	0.263	0.358
		22.5º	0.018	0.033	0.051	0.074	0.100	0.131	0.204	0.294	0.401
		45º	0.028	0.049	0.077	0.111	0.152	0.198	0.309	0.445	0.606

42x12 36x14	Airflow (CFM)		966	1288	1610	1932	2254	2576	3220	3864	4508
	Throw (ft.)	0º	19-31-57	27-41-66	34-51-74	41-57-81	48-62-87	54-66-93	60-74-104	66-81-114	71-87-123
		22.5º	15-24-44	21-32-51	26-40-57	32-44-63	37-48-68	42-51-72	47-57-81	51-63-89	55-68-96
		45º	9-14-26	12-18-30	15-23-33	18-26-36	21-28-39	24-30-42	27-33-47	30-36-51	32-39-56
	NC		-	15	22	27	32	36	43	48	53

24x22	Airflow (CFM)		1029	1372	1715	2058	2401	2744	3430	4116	4802
	Throw (ft.)	0º	20-32-59	28-42-68	35-53-76	42-59-83	49-64-90	56-68-96	62-76-108	68-83-118	74-90-127
		22.5º	15-25-46	22-33-53	27-41-59	33-46-65	38-49-70	43-53-75	48-59-83	53-65-91	57-70-99
		45º	9-14-27	13-19-31	16-24-34	19-27-38	22-29-41	25-31-43	28-34-48	31-38-53	33-41-57
	NC		-	15	22	28	32	36	43	48	53

30x18	Airflow (CFM)		1050	1400	1750	2100	2450	2800	3500	4200	4900
	Throw (ft.)	0º	20-32-60	28-34-69	36-53-77	43-60-84	50-64-91	56-69-97	63-77-109	69-84-119	74-91-129
		22.5º	15-25-46	22-33-53	28-41-60	33-46-65	39-50-71	44-53-75	49-60-84	53-65-92	58-71-100
		45º	9-14-27	13-19-31	16-24-35	19-27-38	22-29-41	25-31-44	28-35-49	31-38-54	33-41-58
	NC		-	16	22	28	32	36	43	48	53

48x12 36x16 24x24	Airflow (CFM)		1125	1500	1875	2250	2625	3000	3750	4500	5250
	Throw (ft.)	0º	21-33-62	29-44-71	37-55-80	44-62-87	51-67-94	58-71-101	65-80-113	71-87-123	77-94-133
		22.5º	16-26-48	23-34-55	29-43-62	34-48-68	40-52-73	45-55-78	50-62-87	55-68-96	60-73-103
		45º	9-15-28	13-20-32	17-25-36	20-28-39	23-30-42	26-32-45	29-36-51	32-39-55	35-42-60
	NC		-	16	22	28	33	37	43	49	53

36x18	Airflow (CFM)		1266	1688	2110	2532	2954	3376	4220	5064	5908
	Throw (ft.)	0º	22-35-65	31-47-76	39-59-84	47-65-93	55-71-100	62-76-107	69-84-119	76-93-131	82-100-141
		22.5º	17-27-51	24-36-59	30-45-65	36-51-72	42-55-77	48-59-83	53-65-93	59-72-101	63-77-110
		45º	10-16-29	14-21-34	18-26-38	21-29-42	25-32-45	28-34-48	31-38-54	34-42-59	37-45-64
	NC		-	16	23	28	33	37	44	49	54

36x20 31x24	Airflow (CFM)		1413	1884	2355	2826	3297	3768	4710	5652	6594
	Throw (ft.)	0º	23-37-69	33-49-80	41-62-89	49-69-98	58-75-106	65-80-113	73-89-126	80-98-138	86-106-149
		22.5º	18-29-54	26-38-62	32-48-69	38-54-76	45-58-82	50-62-87	56-69-98	67-76-107	67-82-116
		45º	10-17-31	15-22-36	19-28-40	22-31-44	26-34-48	29-36-51	33-40-57	36-44-62	39-48-67
	NC		-	17	23	29	33	37	44	50	54

42x18	Airflow (CFM)		1482	1976	2470	2964	3458	3952	4940	5928	6916
	Throw (ft.)	0º	24-38-71	34-51-82	42-63-91	51-71-100	59-76-108	67-82-116	75-91-129	82-100-142	88-108-153
		22.5º	18-29-55	26-39-63	33-49-71	39-55-71	46-59-84	52-63-90	58-71-100	63-78-110	68-84-118
		45º	11-17-32	15-23-37	19-28-41	19-28-41	27-34-49	30-37-52	34-41-58	37-45-64	40-49-69
	NC		-	17	24	24	34	38	44	50	54

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Performance data includes damper in the full open position.
4. 0º, 22.5º and 45º represent blade deflection angles.
5. Units: Face Velocity = fpm; Total Pressure = in. wc
6. Throw based on terminal velocities of 150 fpm, 100 fpm and 50 fpm.
7. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 through 4000 Hz octave bands.
8. Dash "-" indicates NC value less than 10.

ENGINEERING DATA

T50, T60, T52, T62, T54, T64

Nom Duct Size	Core Vel. (fpm)		300	400	500	600	700	800	1000	1200	1400
	Vel. Pressure		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
	Total Pressure	0º	0.016	0.029	0.046	0.066	0.090	0.117	0.183	0.263	0.358
		22.5º	0.018	0.033	0.051	0.074	0.100	0.131	0.204	0.294	0.401
		45º	0.028	0.049	0.077	0.111	0.152	0.198	0.309	0.445	0.606

28x28	Airflow (CFM)		1548	2064	2580	3096	3612	4128	5160	6192	7224
	Throw (ft.)	0º	24-39-72	35-52-84	43-65-93	52-72-102	60-78-110	68-84-118	76-93-132	84-102-145	90-110-156
		22.5º	19-30-56	27-40-65	33-50-72	40-56-79	47-61-86	53-65-92	59-72-102	65-79-112	70-86-121
		45º	11-17-33	16-23-38	19-29-42	23-33-46	27-35-50	31-38-53	34-42-59	38-46-65	41-50-70
	NC		-	17	24	29	34	38	45	50	55

42x20 30x28	Airflow (CFM)		1653	2204	2755	3306	3857	4408	5510	6612	7714
	Throw (ft.)	0º	25-40-75	36-54-86	45-67-96	54-75-106	62-81-114	70-86-122	79-96-136	86-106-149	93-114-161
		22.5º	19-31-58	28-41-67	35-52-75	41-58-82	48-63-88	55-67-95	61-75-106	67-82-116	72-88-125
		45º	11-18-34	16-24-39	20-30-43	24-34-48	28-36-51	32-39-55	35-43-61	39-48-67	42-51-73
	NC		-	17	24	30	34	38	45	50	55

48x18 36x24	Airflow (CFM)		1698	2264	2830	3396	3962	4528	5660	6792	7924
	Throw (ft.)	0º	25-41-76	36-54-87	45-68-98	54-76-107	63-82-116	71-87-124	80-98-138	87-107-152	94-116-164
		22.5º	20-32-59	28-42-68	35-53-76	42-59-83	49-63-90	55-68-96	62-76-107	68-83-117	73-90-127
		45º	11-18-34	16-24-39	20-31-44	24-34-48	28-37-52	32-39-56	36-44-62	39-48-68	43-52-74
	NC		-	18	24	30	34	38	45	50	55

30x30	Airflow (CFM)		1782	2376	2970	3564	4158	4752	5940	7128	8316
	Throw (ft.)	0º	26-42-78	37-56-90	46-69-100	56-78-110	65-84-119	73-90-127	82-100-142	90-110-155	97-119-168
		22.5º	20-32-60	29-43-69	36-54-78	43-60-85	50-65-92	57-69-98	63-78-110	69-85-120	75-92-130
		45º	12-19-35	17-25-40	21-31-45	25-35-49	29-38-53	33-40-57	37-45-64	40-49-70	44-53-75
	NC		-	18	24	30	34	38	45	51	55

42x24 36x28	Airflow (CFM)		1998	2664	3330	3996	4662	5328	6660	7992	9324
	Throw (ft.)	0º	28-44-82	39-59-95	49-74-106	59-82-116	69-89-126	77-95-134	87-106-150	95-116-164	102-126-178
		22.5º	21-34-64	30-46-74	38-57-82	46-64-90	53-69-97	60-74-104	67-82-116	74-90-127	79-97-138
		45º	12-20-37	18-26-43	22-33-48	26-37-52	31-40-56	35-43-60	39-48-68	43-52-74	46-56-80
	NC		-	18	25	30	35	39	46	51	56

46x22	Airflow (CFM)		2004	2672	3340	4008	4676	5344	6680	8016	9352
	Throw (ft.)	0º	28-44-82	39-59-95	49-74-106	59-82-116	69-89-126	78-95-134	87-106-150	95-116-165	103-126-178
		22.5º	21-34-64	30-46-74	38-57-82	46-64-90	53-69-97	60-74-104	67-82-116	74-90-128	80-97-138
		45º	12-20-37	18-27-43	22-33-48	27-37-52	31-40-57	35-43-60	39-48-68	43-52-74	46-57-80
	NC		-	18	25	30	35	36	46	51	56

32x32	Airflow (CFM)		2034	2712	3390	4068	4746	5424	6780	8136	9492
	Throw (ft.)	0º	28-45-83	40-59-96	49-74-107	59-83-117	69-90-127	78-96-135	87-107-151	96-117-166	103-127-179
		22.5º	22-34-64	31-46-74	38-57-83	46-64-91	54-69-98	61-74-105	68-83-117	74-91-129	80-98-139
		45º	12-20-37	18-27-43	22-33-48	27-37-53	31-40-57	35-43-61	39-48-68	43-53-75	47-57-81
	NC		-	18	25	30	35	39	46	51	56

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Performance data includes damper in the full open position.
4. 0º, 22.5º and 45º represent blade deflection angles.
5. Units: Face Velocity = fpm; Total Pressure = in. wc
6. Throw based on terminal velocities of 150 fpm, 100 fpm and 50 fpm.
7. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 through 4000 Hz octave bands.
8. Dash "-" indicates NC value less than 10.

ENGINEERING DATA

T50, T60, T52, T62, T54, T64

Nom Duct Size	Core Vel. (fpm)		300	400	500	600	700	800	1000	1200	1400
	Vel. Pressure		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
	Total Pressure	0º	0.016	0.029	0.046	0.066	0.090	0.117	0.183	0.263	0.358
		22.5º	0.018	0.033	0.051	0.074	0.100	0.131	0.204	0.294	0.401
		45º	0.028	0.049	0.077	0.111	0.152	0.198	0.309	0.445	0.606

36x30	Airflow (CFM)		2148	2864	3580	4296	5012	5728	7160	8592	10024
	Throw (ft.)	0º	29-46-85	41-61-98	51-76-110	61-85-121	71-92-130	80-98-139	90-110-156	98-121-170	106-130-184
		22.5º	22-35-66	32-47-76	39-59-85	47-66-93	55-71-101	62-76-108	70-85-121	76-93-132	82-101-143
		45º	13-21-38	18-27-44	23-34-50	27-38-54	32-41-59	36-44-63	40-50-70	44-54-77	48-59-83
	NC		-	19	25	31	35	39	46	51	56

48x24 36x32	Airflow (CFM)		2289	3052	3815	4578	5341	6104	7630	9156	10682
	Throw (ft.)	0º	29-47-88	42-63-102	52-79-114	63-88-124	73-95-134	83-102-144	93-114-161	102-124-176	110-134-147
		22.5º	23-37-68	33-49-79	41-61-88	49-68-96	57-74-104	64-79-111	72-88-124	79-96-136	85-104-147
		45º	13-21-40	19-28-46	24-35-51	28-40-56	33-43-60	37-46-65	42-51-72	46-56-79	49-60-86
	NC		-	19	25	31	35	39	46	52	56

34x34	Airflow (CFM)		2304	3072	3840	4608	5376	6144	7680	9216	10752
	Throw (ft.)	0º	30-47-88	42-63-102	53-79-114	63-88-125	74-95-135	83-102-144	93-114-161	102-125-176	110-135-191
		22.5º	23-37-68	33-49-79	41-61-88	49-68-97	57-74-104	64-79-112	72-88-125	79-97-137	85-104-148
		45º	13-21-40	19-28-46	24-36-51	28-40-56	33-43-61	37-46-65	42-51-73	46-56-79	50-61-86
	NC		-	19	25	31	36	40	46	52	56

36x34	Airflow (CFM)		2442	3256	4070	4884	5698	6512	8140	9768	11396
	Throw (ft.)	0º	30-49-91	43-65-105	54-81-117	65-91-128	76-98-139	86-105-148	96-117-166	105-128-182	113-139-196
		22.5º	24-38-70	34-50-81	42-63-91	50-70-100	59-76-108	66-81-115	74-91-129	81-100-141	88-108-152
		45º	14-22-41	20-29-47	24-37-53	29-41-58	34-44-62	39-47-67	43-53-75	47-58-82	51-62-88
	NC		-	19	26	31	36	40	46	52	56

42x30	Airflow (CFM)		2514	3352	4190	5028	5866	6704	8380	10056	11732
	Throw (ft.)	0º	31-49-92	44-66-106	55-82-119	66-92-130	77-100-141	87-106-151	97-119-168	106-130-184	115-141-199
		22.5º	24-38-71	34-51-82	43-64-92	51-71-101	60-77-109	67-82-117	75-92-130	82-101-143	89-109-154
		45º	14-22-41	20-30-48	25-37-54	30-41-59	35-45-63	39-48-68	44-54-76	48-59-83	52-63-90
	NC		11	19	26	31	36	40	47	52	57

36x36	Airflow (CFM)		2589	3452	4315	5178	6041	6904	8630	10356	12082
	Throw (ft.)	0º	31-50-94	45-67-108	56-84-121	67-94-132	78-101-143	88-108-153	99-121-171	108-132-187	117-143-202
		22.5º	24-39-72	35-52-84	43-65-94	52-72-103	61-78-111	68-84-118	76-94-132	84-103-145	90-111-157
		45º	14-23-42	20-30-49	25-38-54	30-42-60	35-45-64	40-49-69	44-54-77	49-60-84	53-64-91
	NC		11	19	26	31	36	40	47	52	57

42x34 48x30	Airflow (CFM)		2880	3840	4800	5760	6720	7680	9600	11520	13440
	Throw (ft.)	0º	33-53-99	47-71-114	59-88-127	71-99-140	82-107-151	93-114-161	104-127-180	114-140-197	123-151-213
		22.5º	26-41-76	36-55-88	46-68-99	55-76-108	64-83-117	72-88-125	81-99-140	88-108-153	95-117-165
		45º	15-24-44	21-32-51	26-40-57	32-44-63	37-48-68	42-51-73	47-57-81	51-63-89	55-68-96
	NC		11	20	26	32	36	40	47	53	57

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Performance data includes damper in the full open position.
4. 0º, 22.5º and 45º represent blade deflection angles.
5. Units: Face Velocity = fpm; Total Pressure = in. wc
6. Throw based on terminal velocities of 150 fpm, 100 fpm and 50 fpm.
7. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 through 4000 Hz octave bands.
8. Dash "-" indicates NC value less than 10.

ENGINEERING DATA

T50, T60, T52, T62, T54, T64

Nom Duct Size	Core Vel. (fpm)		300	400	500	600	700	800	1000	1200	1400
	Vel. Pressure		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
	Total Pressure	0º	0.016	0.029	0.046	0.066	0.090	0.117	0.183	0.263	0.358
		22.5º	0.018	0.033	0.051	0.074	0.100	0.131	0.204	0.294	0.401
		45º	0.028	0.049	0.077	0.111	0.152	0.198	0.309	0.445	0.606

38x38	Airflow (CFM)		2892	3856	4820	5784	6748	7712	9640	11568	13496
	Throw (ft.)	0º	33-53-99	47-71-114	59-88-128	71-99-140	83-107-151	93-114-161	104-128-181	114-140-198	123-151-214
		22.5º	26-41-77	37-55-88	46-69-99	55-77-108	64-83-117	72-88-125	81-99-140	88-108-153	96-117-166
		45º	15-24-44	21-32-51	27-40-57	32-44-63	37-48-68	42-51-73	47-57-81	51-63-89	55-68-96
	NC		11	20	26	32	36	40	47	53	57

42x36	Airflow (CFM)		3030	4040	5050	6060	7070	8080	10100	12120	14140
	Throw (ft.)	0º	34-54-101	48-72-117	60-91-131	72-101-143	85-109-155	95-117-165	107-131-185	117-143-202	126-155-219
		22.5º	26-42-78	37-56-91	47-70-101	56-78-111	65-85-120	74-91-128	83-101-143	91-111-157	98-120-169
		45º	15-24-46	22-33-53	27-41-59	33-46-64	38-49-70	43-53-74	48-59-83	53-64-91	57-70-98
	NC		11	20	27	32	37	41	47	53	57

46x34	Airflow (CFM)		3135	4180	5225	6270	7315	8360	10450	12540	14630
	Throw (ft.)	0º	34-55-103	49-74-119	61-92-133	74-103-146	86-111-157	97-119-168	109-133-188	119-146-206	128-157-222
		22.5º	27-43-80	38-57-92	48-71-103	57-80-113	67-86-122	75-92-130	84-103-146	92-113-160	99-122-172
		45º	16-25-46	22-33-53	28-41-60	33-46-66	39-50-71	44-53-76	49-60-85	53-66-93	58-71-100
	NC		11	20	27	32	37	41	47	53	58

42x38	Airflow (CFM)		3201	4268	5335	6402	7469	8536	10670	12804	14938
	Throw (ft.)	0º	35-56-104	50-74-120	62-93-134	74-104-147	84-112-159	98-120-170	110-134-190	120-147-208	130-159-225
		22.5º	27-43-81	38-58-93	48-72-104	58-81-114	67-87-123	76-93-132	85-104-147	93-114-161	101-123-174
		45º	16-25-47	22-34-54	28-42-60	34-47-66	39-51-71	44-54-76	49-60-85	54-66-94	58-71-101
	NC		12	20	27	32	37	41	48	53	58

40x40	Airflow (CFM)		3210	4280	5350	6420	7490	8560	10700	12840	14980
	Throw (ft.)	0º	35-56-104	50-75-120	62-93-134	75-104-147	87-113-159	98-120-170	110-134-190	120-147-208	130-159-225
		22.5º	27-43-81	39-58-93	48-72-104	58-81-114	67-87-123	76-93-132	85-104-147	93-114-161	101-123-174
		45º	16-25-47	22-34-54	28-42-61	34-47-66	39-51-72	44-54-77	49-61-86	54-66-94	58-72-101
	NC		12	20	27	32	37	44	48	53	58

48x36	Airflow (CFM)		3471	4628	5785	6942	8099	9256	11570	13884	16198
	Throw (ft.)	0º	36-58-108	52-78-125	65-97-140	78-108-153	90-117-165	102-125-177	114-140-198	125-153-217	135-165-234
		22.5º	28-45-84	40-60-97	50-75-108	60-84-119	70-91-128	79-97-137	88-108-153	97-119-168	105-128-181
		45º	16-26-49	23-35-56	29-44-63	35-49-69	41-53-74	46-56-80	51-63-89	56-69-97	61-74-105
	NC		12	21	27	33	37	41	48	53	58

42x42	Airflow (CFM)		3546	4728	5910	7092	8274	9456	11820	14184	16548
	Throw (ft.)	0º	37-59-109	52-78-126	65-98-141	78-109-155	91-118-167	103-126-179	115-141-200	126-155-219	137-167-236
		22.5º	24-46-85	40-61-126	51-76-110	61-85-120	71-92-130	80-98-139	89-110-155	98-120-170	106-130-183
		45º	16-26-49	24-35-57	29-44-64	35-49-70	41-53-75	46-57-80	52-64-90	57-70-99	61-75-106
	NC		12	27	27	33	37	41	48	53	58

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Performance data includes damper in the full open position.
4. 0º, 22.5º and 45º represent blade deflection angles.
5. Units: Face Velocity = fpm; Total Pressure = in. wc
6. Throw based on terminal velocities of 150 fpm, 100 fpm and 50 fpm.
7. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 through 4000 Hz octave bands.
8. Dash "-" indicates NC value less than 10.

ENGINEERING DATA

T50, T60, T52, T62, T54, T64

Nom Duct Size	Core Vel. (fpm)		300	400	500	600	700	800	1000	1200	1400
	Vel. Pressure		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
	Total Pressure	0º	0.016	0.029	0.046	0.066	0.090	0.117	0.183	0.263	0.358
		22.5º	0.018	0.033	0.051	0.074	0.100	0.131	0.204	0.294	0.401
		45º	0.028	0.049	0.077	0.111	0.152	0.198	0.309	0.445	0.606

44x44	Airflow (CFM)		3897	5196	6495	7794	9093	10392	12990	15588	18186
	Throw (ft.)	0º	38-62-115	55-82-133	68-103-148	82-115-162	96-124-175	108-133-187	121-148-210	133-162-230	143-175-248
		22.5º	30-48-89	42-64-103	53-80-115	64-89-126	74-96-136	84-103-145	94-115-162	103-126-178	111-136-192
		45º	17-28-52	25-37-60	31-46-67	37-52-73	43-55-79	49-60-84	54-67-94	60-73-103	64-79-112
	NC		12	21	28	33	38	42	48	54	58

48x42	Airflow (CFM)		4062	5416	6770	8124	9478	10832	13540	16248	18956
	Throw (ft.)	0º	36-63-117	58-84-135	70-105-151	84-117-166	98-127-179	110-135-191	124-151-214	135-166-234	146-179-253
		22.5º	30-49-91	43-65-105	54-81-117	65-91-128	76-98-139	86-105-148	96-117-166	105-128-182	113-139-196
		45º	18-28-53	25-38-61	31-47-68	38-53-75	44-57-81	50-61-86	56-68-96	61-75-105	68-81-114
	NC		13	21	28	33	38	42	49	54	59

46x46	Airflow (CFM)		4266	5699	7110	8532	9954	11376	14220	17064	19908
	Throw (ft.)	0º	40-64-120	57-86-139	72-107-155	86-120-170	100-130-183	113-139-196	127-155-219	139-170-240	150-183-259
		22.5º	31-50-93	44-67-107	56-83-120	67-93-132	78-101-142	88-107-152	98-120-170	107-132-186	116-142-201
		45º	18-29-54	26-39-62	32-48-70	39-54-76	45-58-83	51-62-88	57-70-99	62-76-108	67-83-117
	NC		13	21	28	33	38	42	49	54	59

48x46	Airflow (CFM)		4455	5940	7425	8910	10395	11880	14850	17820	20790
	Throw (ft.)	0º	41-66-123	59-88-142	73-110-158	88-123-174	102-133-187	116-142-200	129-158-224	142-174-245	153-187-265
		22.5º	32-51-95	45-68-110	57-85-123	68-95-134	79-103-145	90-110-155	100-123-174	110-134-190	119-145-205
		45º	18-30-55	26-40-64	33-49-71	40-55-78	46-60-84	52-64-90	58-71-101	64-78-110	69-84-119
	NC		13	22	28	34	38	42	49	54	59

48x48	Airflow (CFM)		4650	6200	7750	9300	10850	12400	15500	18600	21700
	Throw (ft.)	0º	42-67-125	60-90-145	75-112-162	90-125-177	105-135-192	118-145-202	132-162-229	145-177-251	156-192-271
		22.5º	33-52-97	46-70-112	58-87-125	70-97-137	81-105-148	92-112-159	102-125-177	112-137-194	121-148-210
		45º	19-30-56	27-40-65	34-50-73	40-56-80	47-61-86	53-65-92	59-73-103	65-80-113	70-86-122
	NC		13	22	28	34	38	42	49	55	59

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Performance data includes damper in the full open position.
4. 0º, 22.5º and 45º represent blade deflection angles.
5. Units: Face Velocity = fpm; Total Pressure = in. wc
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