



ENGINEERING DATA

AVF

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	0.030	0.040	0.062	0.090	0.122
	Total Pressure	0°	0.017	0.028	0.045	0.062	0.084	0.112	0.174	0.252	0.341
		22.5	0.019	0.031	0.050	0.068	0.093	0.124	0.192	0.279	0.374
	45°	0.020	0.034	0.054	0.075	0.102	0.136	0.211	0.306	0.415	

8 X 4 7 X 5 6 X 6	Airflow (CFM)		55	70	90	110	125	145	180	215	250
	Throw (ft.)	0°	4-7-13	6-8-15	7-12-17	10-14-19	11-15-20	12-16-22	14-17-24	15-19-26	17-21-29
		22.5	3-6-10	5-6-12	6-10-14	7-11-15	8-12-16	10-13-18	11-14-19	12-15-21	14-17-23
		45°	2-3-7	3-4-8	4-5-9	4-7-10	5-7-10	6-8-11	7-9-12	8-10-13	8-10-14
	NC		-	-	-	12	17	21	27	33	38

12 X 4 10 X 5 8 X 6	Airflow (CFM)		80	105	130	155	180	210	260	310	365
	Throw (ft.)	0°	5-8-16	7-12-19	10-14-21	11-17-23	13-17-24	15-19-26	17-21-29	19-23-32	20-25-35
		22.5	4-6-13	6-10-15	7-11-17	8-14-18	11-14-19	12-15-21	14-17-23	15-18-26	16-20-2
		45°	3-4-8	4-5-9	4-7-10	5-8-11	6-9-12	7-9-13	8-11-15	9-12-16	10-13-17
	NC		-	-	-	13	18	22	28	34	39

16 X 4 12 X 5 10 X 6	Airflow (CFM)		100	135	170	205	240	270	340	410	475
	Throw (ft.)	0°	5-10-18	8-13-21	11-16-24	13-20-26	15-20-28	17-22-30	20-24-33	22-26-37	23-28-40
		22.5	4-7-14	6-11-17	8-13-19	11-16-22	12-16-22	14-18-24	16-19-26	18-21-30	18-22-32
		45°	3-4-9	4-6-11	5-8-12	6-10-13	7-10-14	8-11-15	10-12-17	11-13-18	12-14-20
	NC		-	-	-	14	19	23	29	35	40

18 X 4 14 X 5 12 X 6 8 X 8	Airflow (CFM)		115	155	195	235	275	310	390	470	545
	Throw (ft.)	0°	6-10-19	10-14-23	12-17-25	14-20-28	16-22-30	18-23-32	21-26-36	23-27-40	25-30-42
		22.5	5-7-15	7-11-18	10-14-20	11-16-22	13-18-24	15-18-26	17-21-29	18-22-32	20-24-34
		45°	3-5-10	4-6-11	5-8-13	7-11-14	8-11-15	10-12-16	11-13-18	12-14-20	12-15-21
	NC		-	-	-	15	20	24	30	36	41

24 X 4 18 X 5 16 X 6	Airflow (CFM)		155	210	260	310	365	415	520	625	730
	Throw (ft.)	0°	7-12-23	11-16-26	14-20-29	16-23-32	19-25-35	21-26-37	24-30-41	27-33-45	29-35-49
		22.5	6-10-18	8-13-21	11-16-23	13-19-26	15-20-28	17-21-30	19-24-33	22-26-36	23-28-39
		45°	3-5-11	5-7-13	6-10-15	8-12-16	10-12-17	11-13-18	12-15-21	13-16-23	14-18-24
	NC		-	-	11	16	21	25	31	37	42

28 X 4 20 X 5 18 X 6 12 X 8 10 X 10	Airflow (CFM)		180	240	300	360	420	480	600	720	840
	Throw (ft.)	0°	7-13-24	12-17-28	15-21-31	17-25-34	20-27-37	23-29-40	26-32-45	29-35-48	31-38-52
		22.5	6-11-19	10-14-22	12-17-25	14-20-27	16-22-30	19-23-32	21-26-36	23-28-38	25-30-42
		45°	4-6-12	5-8-14	7-11-16	8-13-17	11-13-19	12-14-20	13-16-22	14-17-24	15-19-26
	NC		-	-	12	17	22	26	32	38	43

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30 X 4 24 X 5 20 X 6 14 X 8 12 X 10	Airflow (CFM)		205	275	345	415	485	550	690	830	965
	Throw (ft.)	0°	8-14-26	13-18-30	16-23-34	19-27-37	22-29-40	25-31-43	28-34-47	30-38-52	33-40-56
		22.5	6-11-21	11-15-24	13-19-27	15-22-30	18-23-32	20-25-34	22-27-38	24-30-42	26-32-45
		45°	4-6-13	6-10-15	7-12-17	10-14-18	11-14-20	13-15-21	14-17-24	15-19-26	16-20-28
NC			-	-	12	17	22	26	32	38	43

36 X 4 28 X 5 22 X 6 16 X 8 14 X 10	Airflow (CFM)		245	325	405	485	565	650	810	970	1130
	Throw (ft.)	0°	8-15-28	14-20-33	17-24-37	20-29-40	24-31-43	27-33-46	30-37-51	33-41-56	36-44-60
		22.5	6-12-22	11-16-26	14-19-30	16-23-32	19-25-34	22-26-37	24-30-41	26-33-45	29-35-48
		45°	4-7-14	6-10-16	8-13-18	11-15-20	12-15-22	14-17-23	15-19-26	17-20-28	18-22-30
NC			-	-	13	18	23	27	33	39	44

40 X 4 30 X 5 26 X 6 18 X 8 16 X 10 12 X 12	Airflow (CFM)		270	360	450	540	630	720	900	1080	1260
	Throw (ft.)	0°	10-16-30	15-21-34	18-26-39	22-31-42	25-33-45	28-35-48	32-39-55	35-43-59	37-46-63
		22.5	7-13-24	12-17-27	15-21-31	18-25-34	20-26-36	23-28-38	26-31-44	28-34-47	30-37-50
		45°	5-8-15	7-11-17	10-14-19	11-16-21	13-16-23	15-17-24	16-20-27	17-21-29	19-23-32
NC			-	-	14	19	24	28	34	40	45

48 X 4 36 X 5 30 X 6 18 X 10 14 X 12	Airflow (CFM)		320	430	535	640	750	855	1070	1280	1500
	Throw (ft.)	0°	11-17-32	16-23-38	19-30-42	23-35-46	28-36-46	33-38-53	35-43-59	38-46-64	41-50-69
		22.5	8-14-26	13-19-30	15-23-34	19-28-37	22-29-39	24-30-42	28-34-47	30-37-51	33-40-55
		45°	5-8-16	7-12-19	10-15-21	12-18-23	14-18-25	15-19-26	17-21-29	19-23-32	20-25-35
NC			-	-	14	19	24	28	34	40	45

34 X 6 24 X 8 20 X 10 16 X 12 12 X 12	Airflow (CFM)		355	470	590	710	825	945	1180	1420	1650
	Throw (ft.)	0°	11-18-34	16-24-40	20-30-44	24-37-48	29-38-52	33-40-56	36-45-62	40-48-67	43-52-73
		22.5	8-15-27	13-19-32	16-23-35	19-30-38	23-30-42	27-32-45	29-36-50	32-38-50	34-42-58
		45°	5-8-17	8-12-20	11-15-22	13-18-24	14-19-26	16-20-28	18-22-31	20-24-34	21-26-36
NC			-	-	14	19	24	28	34	40	45

60 X 4 48 X 5 36 X 6 18 X 12 14 X 12	Airflow (CFM)		400	535	670	805	940	1070	1340	1610	1880
	Throw (ft.)	0°	12-19-36	17-25-42	21-32-47	25-39-51	30-40-56	34-43-59	39-47-65	42-52-72	45-56-78
		22.5	10-15-29	14-20-34	17-25-38	20-32-41	23-32-45	28-34-47	31-38-52	34-42-58	36-45-62
		45°	6-10-18	8-13-21	11-16-23	13-19-26	15-20-28	17-21-29	19-23-33	21-26-36	23-28-39
NC			-	-	15	20	25	29	35	41	46

72 X 4 30 X 8 24 X 10 22 X 12 18 X 14 16 X 16	Airflow (CFM)		480	640	800	960	1120	1280	1600	1920	2240
	Throw (ft.)	0°	14-21-40	19-28-46	22-34-51	29-41-56	33-43-60	37-46-64	42-51-72	46-56-79	49-61-85
		22.5	11-17-32	15-22-37	19-28-41	23-33-45	27-34-48	30-37-51	34-41-58	37-45-63	39-49-68
		45°	6-11-20	10-14-23	12-17-25	14-21-28	16-22-30	18-23-32	21-26-36	23-28-39	25-30-43
NC			-	-	16	21	26	30	36	42	47

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60 X 5 48 X 6 36 X 8 30 X 10 24 X 12 20 X 14 18 X 16	Airflow (CFM)		540	720	900	1080	1260	1440	1800	2160	2520
	Throw (ft.)	0°	14-22-42	20-30-48	25-37-55	31-45-59	34-46-63	39-49-68	45-55-76	48-60-84	52-65-90
		22.5	11-18-34	16-23-38	20-30-44	24-36-47	28-37-50	32-39-54	36-44-61	38-48-67	42-52-72
		45°	7-12-21	10-15-24	13-18-27	15-22-29	17-23-32	20-24-34	22-27-38	24-30-42	26-32-45
NC		-	-	17	22	27	31	37	43	48	

20 X 16 18 X 18 40 X 8 36 X 10 30 X 12 24 X 14	Airflow (CFM)		625	830	1040	1250	1460	1660	2080	2500	2910
	Throw (ft.)	0°	15-24-45	21-32-52	28-40-58	32-47-63	37-49-68	42-53-73	48-59-82	52-64-90	56-69-97
		22.5	12-19-36	17-25-42	22-32-46	25-37-50	30-39-54	34-42-58	38-47-66	42-51-72	45-55-78
		45°	7-12-23	11-16-26	14-20-29	16-23-32	18-25-34	22-26-37	24-29-41	26-32-45	28-35-48
NC		-	-	17	22	27	31	37	43	48	

48 X 8 32 X 12 26 X 14 24 X 16 20 X 18 20 X 20	Airflow (CFM)		735	980	1220	1470	1720	1960	2450	2940	3430
	Throw (ft.)	0°	16-27-49	23-35-57	29-42-62	34-51-68	40-54-74	46-57-80	52-64-89	57-70-97	61-76-106
		22.5	13-21-39	19-28-46	23-34-50	28-40-54	32-43-59	36-46-64	45-51-71	46-56-78	49-61-85
		45°	7-13-24	12-17-28	15-21-31	17-25-34	20-27-37	23-28-40	26-32-45	28-35-49	32-38-53
NC		-	11	18	23	28	32	38	44	49	

36 x 12 30 X 14 26 X 16 24 X 18 22 X 20	Airflow (CFM)		835	1110	1390	1670	1950	2220	2780	3340	3890
	Throw (ft.)	0°	17-28-52	24-36-60	31-45-67	37-53-73	42-57-79	48-57-79	55-68-95	60-75-104	65-81-112
		22.5	14-22-42	19-29-48	24-36-54	30-42-58	34-46-63	38-49-68	44-54-76	48-60-83	52-65-90
		45°	8-14-26	13-18-30	15-22-33	18-27-37	21-28-40	24-30-42	28-34-47	30-37-52	33-40-56
NC		-	11	18	23	28	32	38	44	49	

48 X 10 26 X 18 24 X 20 40 X 12 36 X 14 30 X 16	Airflow (CFM)		935	1240	1560	1870	2180	2490	3110	3730	4350
	Throw (ft.)	0°	18-29-55	25-38-63	36-48-71	43-56-78	50-60-84	51-64-90	58-72-100	64-79-110	69-86-118
		22.5	15-23-44	11-31-50	29-38-57	35-42-62	40-48-67	40-51-72	46-58-80	51-63-88	55-69-94
		45°	8-15-28	13-19-31	18-23-35	21-28-39	23-30-42	26-32-45	29-36-50	32-40-55	35-43-59
NC		-	12	19	24	29	33	39	45	50	

24 X 24 60 X 10 48 X 12 36 X 16 30 X 18	Airflow (CFM)		1080	1440	1800	2170	2530	2890	3610	4330	5050
	Throw (ft.)	0°	19-31-59	28-40-68	34-50-76	40-59-84	47-65-90	54-69-97	63-78-108	69-86-118	75-93-128
		22.5	15-24-47	22-32-54	28-40-61	32-48-67	37-52-72	43-55-78	50-62-86	55-69-94	60-74-102
		45°	10-15-29	14-20-34	17-24-38	20-30-42	23-32-45	27-35-48	31-39-54	35-43-59	38-46-64
NC		-	13	20	25	30	34	40	46	51	

72 X 10 48 X 16 36 X 20 30 X 24	Airflow (CFM)		1400	1860	2320	2790	3260	3720	4650	5580	6510
	Throw (ft.)	0°	21-35-67	31-46-78	38-57-87	47-69-95	54-74-103	61-79-110	72-89-123	79-97-135	86-105-146
		22.5	17-28-54	24-36-62	31-46-70	37-55-76	43-59-82	49-63-88	58-71-98	63-78-108	69-84-117
		45°	11-17-33	16-23-39	19-29-43	23-34-48	27-37-52	31-40-55	36-44-61	39-49-67	43-52-73
NC		-	15	22	27	32	36	42	48	53	

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Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition.
3. 0°, 22.5° and 45° represent blade deflection angles.
4. Units: Face Velocity = fpm; Total Pressure = in. wc.
5. Throw based on terminal velocities of 150 fpm, 100 fpm and 50 fpm.
6. NC is based upon 10dB room absorption (Re: 10-12 watts) evaluated at 125 through 4000 Hz.
7. Dash "-" indicates NC value less than 10.