

Performance Data



700 MA Series Round Collar

	FPM	300	400	500	600	700	800	900	1000	1100																		
	VP	0.006	0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.075																		
6x6-6 .175ft/sq	CFM	53	70	88	105	123	140	158	175	193																		
	SP	0.003	0.006	0.01	0.014	0.018	0.023	0.029	0.036	0.043																		
	TP	0.009	0.016	0.026	0.036	0.049	0.063	0.079	0.098	0.118																		
	NC	-	-	15	16	21	25	28	30	32																		
	1w throw	3	7	15	5	10	22	8	14	27	12	17	32	12	19	37	15	22	42	17	24	46	19	27	49	20	31	56
	2w throw	3	5	12	4	8	18	7	11	22	9	14	26	9	15	30	12	18	34	14	19	37	15	22	39	16	24	45
	3w throw	2	4	10	3	7	14	6	9	18	8	11	21	8	12	24	10	14	28	11	15	30	12	18	32	13	20	36
	4w throw	2	3	8	3	5	11	4	7	14	6	8	16	6	9	19	8	11	21	8	12	23	9	14	25	10	15	28
8x8-8 .30ft/sq	FPM	300	400	500	600	700	800	900	1000	1100																		
	CFM	85	115	145	175	200	230	260	290	330																		
	SP	0.004	0.007	0.011	0.016	0.02	0.026	0.032	0.04	0.048																		
	TP	0.01	0.017	0.027	0.038	0.051	0.066	0.082	0.102	0.123																		
	NC	-	-	-	16	21	26	28	30	32																		
	1w throw	4	8	18	6	12	26	10	16	32	14	20	38	14	22	44	18	26	50	20	28	54	22	32	58	24	36	66
	2w throw	3	6	14	5	10	21	8	13	26	11	16	30	11	18	35	14	21	40	16	22	43	18	26	46	19	29	53
	3w throw	3	5	12	4	8	17	7	10	21	9	13	25	9	14	29	12	17	33	13	18	35	14	21	38	16	23	43
4w throw	2	4	9	3	6	13	5	8	16	7	10	19	7	11	22	9	13	25	10	14	27	11	16	29	12	18	33	
10x10-10 .486ft/sq	FPM	300	400	500	600	700	800	900	1000	1100																		
	CFM	146	194	243	292	340	389	437	486	535																		
	SP	0.005	0.009	0.014	0.02	0.025	0.034	0.042	0.051	0.061																		
	TP	0.011	0.019	0.03	0.042	0.056	0.074	0.092	0.113	0.136																		
	NC	-	-	15	16	20	22	27	28	30																		
	1w throw	7	13	26	11	18	35	15	22	40	19	27	46	21	31	51	24	35	56	27	37	60	30	40	63	32	44	70
	2w throw	6	10	21	9	14	28	12	18	32	15	22	37	17	25	41	19	28	45	22	30	48	24	32	50	26	35	56
	3w throw	5	8	17	7	12	23	10	14	26	12	18	30	14	20	33	16	23	36	18	24	39	20	26	41	21	29	46
4w throw	4	7	13	6	9	18	8	11	20	10	14	23	11	16	26	12	18	28	14	19	30	15	20	32	16	22	35	

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Performance Data



12x12-12 .683ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	205			274			342			410			479			547			616			684			759		
	SP	0.007			0.012			0.018			0.025			0.033			0.043			0.053			0.064			0.076		
	TP	0.013			0.022			0.034			0.047			0.064			0.083			0.103			0.126			0.151		
	NC	-			15			15			16			20			21			25			25			28		
	1w throw	10	18	34	16	24	44	20	28	48	24	34	54	28	40	58	30	44	62	34	46	66	38	48	68	40	52	74
	2w throw	8	14	27	13	19	35	16	22	38	19	27	43	22	32	46	24	35	50	27	37	53	30	38	54	32	42	59
	3w throw	7	12	22	10	16	29	13	18	31	16	22	35	18	26	38	20	29	40	22	30	43	25	31	44	26	34	48
	4w throw	5	9	17	8	12	22	10	14	24	12	17	27	14	20	29	15	22	31	17	23	33	19	24	34	20	26	37
	14x14-14 .96ft/sq	FPM	300			400			500			600			700			800			900			1000			1100	
CFM		288			384			480			576			672			768			864			960			1056		
SP		0.006			0.01			0.015			0.02			0.029			0.038			0.046			0.055			0.067		
TP		0.012			0.02			0.031			0.042			0.06			0.078			0.096			0.117			0.142		
NC		-			16			22			26			28			31			35			38			42		
1w throw		11	20	37	18	27	45	22	33	49	27	37	54	32	42	59	34	45	63	37	49	68	41	52	72	43	56	78
2w throw		9	16	30	14	22	36	18	26	39	22	30	43	26	34	47	27	36	50	30	39	54	33	42	58	34	45	62
3w throw		7	13	24	12	18	29	14	21	32	18	24	35	21	27	38	22	29	41	24	32	44	27	34	47	28	36	51
4w throw		6	10	19	9	14	23	11	17	25	14	19	27	16	21	30	17	23	32	19	25	34	21	26	36	22	28	39
16x16-16 1.25ft/sq		FPM	300			400			500			600			700			800			900			1000			1100	
	CFM	375			500			625			750			875			1000			1125			1250			1375		
	SP	0.005			0.009			0.014			0.019			0.026			0.033			0.041			0.05			0.064		
	TP	0.011			0.019			0.03			0.041			0.057			0.073			0.091			0.112			0.139		
	NC	-			-			25			32			35			38			40			45			48		
	1w throw	12	22	40	20	30	46	24	38	50	30	40	54	36	44	60	38	46	64	40	52	70	44	56	76	46	60	82
	2w throw	10	18	32	16	24	37	19	30	40	24	32	43	29	35	48	30	37	51	32	42	56	35	45	61	37	48	66
	3w throw	8	14	26	13	20	30	16	25	33	20	26	35	23	29	39	25	30	42	26	34	46	29	36	49	30	39	53
	4w throw	6	11	20	10	15	23	12	19	25	15	20	27	18	22	30	19	23	32	20	26	35	22	28	38	23	30	41

- See performance notes at the end of the product series for more information

Performance Data



18x18-18 1.58ft/sq	FPM	300	400	500	600	700	800	900	1000	1100																		
	CFM	474	632	790	948	1106	1264	1422	1580	1738																		
	SP	0.005	0.01	0.016	0.02	0.028	0.035	0.044	0.055	0.069																		
	TP	0.011	0.02	0.032	0.042	0.059	0.075	0.094	0.117	0.144																		
	NC	-	-	25	33	36	40	42	47	50																		
	1w throw	13	24	43	22	32	50	26	41	54	32	43	58	39	48	65	41	50	69	43	56	76	48	60	82	50	65	89
	2w throw	10	19	35	17	26	40	21	33	43	26	35	47	31	38	52	33	40	55	35	45	60	38	48	66	40	52	71
	3w throw	8	15	28	14	21	32	17	27	35	21	28	38	25	31	42	27	32	45	28	37	49	31	39	53	32	42	58
	4w throw	6	12	22	11	16	25	13	21	27	16	22	29	19	24	32	21	25	35	22	28	38	24	30	41	25	32	44

Performance Notes

- 1) Throw values are measured in feet for terminal velocities of 150/100/50 FPM between the blades actually being utilized by the air
- 2) Throw data is based on supply air and room air both at isothermal conditions
- 3) Effective core areas listed in the chart are defined as the measurement of space
- 4) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006

Performance Data



700MA Series Square Collar																													
		FPM	300	400	500	600	700	800	900	1000	1100																		
		VP	0.006	0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.075																		
6x6 .212ft/sq	CFM	64	85	106	127	148	170	191	212	233																			
	SP	0.003	0.006	0.011	0.015	0.019	0.025	0.031	0.039	0.046																			
	TP	0.009	0.016	0.027	0.037	0.050	0.065	0.081	0.101	0.121																			
	NC	-	-	17	18	24	29	32	35	37																			
	1w throw	4	7	16	5	11	24	9	15	29	13	18	35	13	20	40	16	24	46	18	26	49	20	29	53	22	33	60	
	2w throw	3	6	13	4	9	19	7	12	23	10	15	28	10	16	32	13	19	36	15	20	39	16	23	42	17	26	48	
	3w throw	2	5	11	4	7	15	6	9	19	8	12	23	8	13	26	11	15	30	12	17	32	13	19	34	14	21	39	
	4w throw	2	4	8	3	5	12	5	7	15	6	9	17	6	10	20	8	12	23	9	13	25	10	15	26	11	16	30	
		FPM	300	400	500	600	700	800	900	1000	1100																		
		CFM	109	145	182	218	254	290	327	363	399																		
		SP	0.004	0.008	0.012	0.017	0.022	0.028	0.035	0.043	0.052																		
		TP	0.010	0.018	0.028	0.039	0.053	0.068	0.085	0.105	0.127																		
		NC	-	-	-	18	24	30	32	35	37																		
		1w throw	4	9	19	6	13	28	11	17	34	15	22	41	15	24	47	19	28	54	22	30	58	24	34	62	26	39	71
		2w throw	3	7	15	5	10	22	9	14	28	12	17	33	12	19	38	15	22	43	17	24	46	19	28	50	21	31	57
		3w throw	3	6	13	4	8	18	7	11	22	10	14	27	10	15	31	13	18	35	14	20	38	15	22	41	17	25	46
		4w throw	2	4	10	3	6	14	5	9	17	8	11	20	8	12	24	10	14	27	11	15	29	12	17	31	13	19	35
		FPM	300	400	500	600	700	800	900	1000	1100																		
		CFM	177	236	295	354	413	472	531	590	649																		
		SP	0.005	0.010	0.015	0.022	0.027	0.037	0.045	0.055	0.066																		
		TP	0.011	0.020	0.031	0.044	0.058	0.077	0.095	0.117	0.141																		
		NC	-	-	17	18	23	25	31	32	35																		
		1w throw	8	14	28	12	19	38	16	24	43	20	29	49	23	33	55	26	38	60	29	40	65	32	43	68	34	47	75
		2w throw	6	11	22	9	15	30	13	19	34	16	23	40	18	27	44	21	30	48	23	32	52	26	34	54	28	38	60
		3w throw	5	9	18	8	13	24	10	15	28	13	19	32	15	22	36	17	24	39	19	26	42	21	28	44	22	31	49
		4w throw	4	7	14	6	10	19	8	12	22	10	15	25	11	17	27	13	19	30	15	20	32	16	22	34	17	24	38

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Performance Data



12x12 .826ft/sq	FPM	300	400	500	600	700	800	900	1000	1100																		
	CFM	248	330	413	496	578	661	743	826	909																		
	SP	0.008	0.013	0.019	0.027	0.036	0.046	0.057	0.069	0.082																		
	TP	0.014	0.023	0.035	0.049	0.067	0.086	0.107	0.131	0.157																		
	NC	-	17	17	18	23	24	29	29	32																		
	1w throw	11	19	37	17	26	47	22	30	52	26	37	58	30	43	62	32	47	67	37	49	71	41	52	73	43	56	80
	2w throw	9	15	29	14	21	38	17	24	41	21	29	46	24	34	50	26	38	53	29	40	57	33	41	58	34	45	64
	3w throw	7	13	24	11	17	31	14	20	34	17	24	38	20	28	41	21	31	43	24	32	46	27	34	48	28	36	52
	4w throw	5	10	18	9	13	24	11	15	26	13	18	29	15	22	31	16	24	33	18	25	35	20	26	37	22	28	40
	14x14 1.16ft/sq	FPM	300	400	500	600	700	800	900	1000	1100																	
CFM		348	464	580	696	812	928	1044	1160	1276																		
SP		0.006	0.011	0.016	0.022	0.031	0.041	0.050	0.059	0.072																		
TP		0.012	0.021	0.032	0.044	0.062	0.081	0.100	0.121	0.147																		
NC		-	18	24	29	31	34	39	42	46																		
1w throw		12	22	40	19	29	48	24	35	53	29	40	58	34	45	63	37	48	68	40	53	73	44	56	77	46	60	84
2w throw		9	17	32	15	23	39	19	28	42	23	32	46	28	36	51	29	39	54	32	42	58	35	45	62	37	48	67
3w throw		8	14	26	13	19	31	15	23	34	19	26	38	22	29	41	24	31	44	26	34	48	29	36	50	30	39	55
4w throw		6	11	20	10	15	24	12	18	26	15	20	29	17	23	32	18	24	34	20	26	37	22	28	39	23	30	42
16x16 1.51ft/sq		FPM	300	400	500	600	700	800	900	1000	1100																	
	CFM	453	604	755	906	1057	1208	1359	1510	1661																		
	SP	0.005	0.010	0.015	0.021	0.028	0.036	0.044	0.054	0.069																		
	TP	0.011	0.020	0.031	0.043	0.059	0.076	0.094	0.116	0.144																		
	NC	-	-	27	35	38	41	43	49	52																		
	1w throw	13	24	43	22	32	49	26	41	54	32	43	58	39	47	65	41	49	69	43	56	75	47	60	82	49	65	88
	2w throw	10	19	34	17	26	40	21	33	43	26	34	46	31	38	52	33	40	55	34	45	60	38	48	65	40	52	71
	3w throw	8	15	28	14	21	32	17	27	35	21	28	38	25	31	42	27	32	45	28	36	49	31	39	53	32	42	57
	4w throw	6	12	22	11	16	25	13	20	27	16	22	29	19	24	32	20	25	34	22	28	38	24	30	41	25	32	44

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Performance Data



18x18 1.91ft/sq	FPM	300	400	500	600	700	800	900	1000	1100																		
	CFM	573	764	955	1146	1337	1528	1719	1910	2101																		
	SP	0.005	0.011	0.017	0.022	0.030	0.038	0.048	0.059	0.075																		
	TP	0.011	0.021	0.033	0.044	0.061	0.078	0.098	0.121	0.150																		
	NC	-	-	27	36	39	43	45	51	54																		
	1w throw	14	26	46	23	35	53	28	44	58	35	46	63	42	51	70	44	53	74	46	60	81	51	65	88	53	70	95
	2w throw	11	20	37	19	28	43	22	35	46	28	37	50	33	41	56	35	43	59	37	48	65	41	52	71	43	56	76
	3w throw	9	17	30	15	23	35	18	29	38	23	30	41	27	33	45	29	35	48	30	39	53	33	42	57	35	45	62
	4w throw	7	13	23	12	17	27	14	22	29	17	23	31	21	26	35	22	27	37	23	30	41	26	33	44	27	35	48

Performance Notes

- 1) Throw values are measured in feet for terminal velocities of 150/100/50 FPM between the blades actually being utilized by the air
- 2) Throw data is based on supply air and room air both at isothermal conditions
- 3) Effective core areas listed in the chart are defined as the measurement of space
- 4) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006