Performance Data



MA Serie	es																												
	FPM		300			400			500			600			700			800			900			1000			1100		
	VP		0.006	6		0.01			0.016			0.022			0.031			0.04			0.05			0.062	2		0.075		
	CFM		64			85			106			127			148			170			191			212			233		
	SP		0.003	3		0.006			0.011			0.015			0.019	1		0.025	5		0.031			0.039)		0.046		
	TP		0.009)		0.016	;		0.027	•		0.037	,		0.050	1		0.065	5	0.081				0.101			0.121		
6x6	NC		-		-			17				18			24			29			32			35			37		
.212ft/sq	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 0.127			
8x8	TP		0.010)		0.018			0.028			0.039		0.053				0.068	}		0.085	<u> </u>		0.105	5				
.363ft/sq	NC		-		_	-			-			18			24			30			32	l		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	12 700	24	10	14	27	11	15 900	29	12	17	31	13	19	35	
	FPM		300		400			500			600 354			413				800		531				1000		1100 649			
	CFM SP		177 0.005			236 0.010			295 0.015			0.022			0.027			472 0.037	,		0.045			590 0.055			0.066		
	TP		0.000			0.010			0.013			0.022			0.027			0.037			0.045		 	0.033			0.066		
10x10	NC NC		0.011		0.020			17			18			23			25			31			32			35			
.59ft/sq	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	
	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	5		0.057	,		0.069)	0.082			
	TP		0.014	ļ		0.023			0.035	,		0.049)		0.067			0.086	5		0.107	,		0.131		0.002			
12x12 .826ft/sq	NC		-		17			17				18			23		24			29			29			32			
.5201054	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	

Performance Data



	FPM		300		400			500			600				700			800			900			1000		1100				
	CFM		348			464			580			696			812			928			1044			1160			1276			
	SP		0.006	5		0.011			0.016	5		0.022			0.031			0.041		0.050				0.059)		0.072	2		
14x14	TP		0.012	2		0.021			0.032	2		0.044			0.062			0.081		0.100			0.121				0.147	,		
1.16ft/sq	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		
	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	5		0.021		0.028				0.036	<u> </u>	0.044			0.054			0.069				
16v16	TP		0.011			0.020)		0.031			0.043		0.059				0.076	<u> </u>	0.094				0.116	5	0.144				
16x16 1.51ft/sq	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		
						400		l			ı						l													
	FPM		300			400			500			600			700			800			900			1000			1100			
	CFM		300 573			764			955			1146			1337			1528			1719			1000 1910			2101			
				5						,						ı														
18x18	CFM SP TP		573			764			955 0.017 0.033			1146 0.022 0.044			1337 0.030 0.061			1528 0.038 0.078	}		1719 0.048 0.098	}		1910 0.059 0.121)	(2101 0.075 0.150	j		
18x18 1.91ft/sq	SP TP NC		573 0.005 0.011			764 0.011 0.021			955 0.017 0.033 27	3		1146 0.022 0.044 36			1337 0.030 0.061 39			1528 0.038 0.078 43	3		1719 0.048 0.098 45	1		1910 0.059 0.121 51)		2101 0.075 0.150 54	j)		
	CFM SP TP NC 1w throw	14	573 0.005 0.011 - 26	46	23	764 0.011 0.021 - 35	53	28	955 0.017 0.033 27 44	58	35	1146 0.022 0.044 36 46	63	42	1337 0.030 0.061 39 51	70	44	1528 0.038 0.078 43 53	74	46	1719 0.048 0.098 45 60	81	51	1910 0.059 0.121 51 65	88	53	2101 0.075 0.150 54 70	95		
	SP TP NC 1w throw 2w throw	14	573 0.005 0.011 - 26 20	46 37	23	764 0.011 0.021 - 35 28	53 43	28 22	955 0.017 0.033 27 44 35	58 46	35 28	1146 0.022 0.044 36 46 37	63 50	42	1337 0.030 0.061 39 51 41	70 56	44 35	1528 0.038 0.078 43 53 43	74 59	46	1719 0.048 0.098 45 60 48	81 65	51 41	1910 0.059 0.121 51 65 52	88 71	53 43	2101 0.075 0.150 54 70 56	95		
	CFM SP TP NC 1w throw 2w throw 3w throw	14 11 9	573 0.005 0.011 - 26 20	46 37 30	23 19 15	764 0.011 0.021 - 35 28 23	53 43 35	28 22 18	955 0.017 0.033 27 44 35 29	58 46 38	35 28 23	1146 0.022 0.044 36 46 37 30	63 50 41	42 33 27	1337 0.030 0.061 39 51 41 33	70 56 45	44 35 29	1528 0.038 0.078 43 53 43 35	74 59 48	46 37 30	1719 0.048 0.098 45 60 48	81 65 53	51 41 33	1910 0.059 0.121 51 65 52 42	88 71 57	53 43 35	2101 0.075 0.150 54 70 56 45	95 76 62		
	CFM SP TP NC 1w throw 2w throw 4w throw	14	573 0.005 0.011 - 26 20 17	46 37	23	764 0.011 0.021 - 35 28 23	53 43	28	955 0.017 0.033 27 44 35 29 22	58 46	35 28	1146 0.022 0.044 36 46 37 30 23	63 50	42	1337 0.030 0.061 39 51 41 33 26	70 56	44 35	1528 0.038 0.078 43 53 43 35 27	74 59	46	1719 0.048 0.098 45 60 48 39	81 65	51 41 33 26	1910 0.059 0.121 51 65 52 42 33	88 71 57 44	53 43 35 27	2101 0.075 0.150 54 70 56 45 35	95 76 62 48		
	CFM SP TP NC 1w throw 2w throw 3w throw 4w throw	14 11 9	573 0.005 0.011 - 26 20 17 13	46 37 30	23 19 15	764 0.011 0.021 - 35 28 23 17	53 43 35	28 22 18	955 0.017 0.033 27 44 35 29 22 500	58 46 38 29	35 28 23	1146 0.022 0.044 36 46 37 30 23	63 50 41	42 33 27 21	1337 0.030 0.061 39 51 41 33 26	70 56 45	44 35 29 22	1528 0.038 0.078 43 53 43 35 27	74 59 48 37	46 37 30 23	1719 0.048 0.098 45 60 48 39 30	81 65 53 41	51 41 33 26	1910 0.059 0.121 51 65 52 42 33	88 71 57 44	53 43 35 27	2101 0.075 0.150 54 70 56 45 35	95 76 62 48		
	CFM SP TP NC 1w throw 2w throw 3w throw 4w throw FPM CFM	14 11 9 7	573 0.005 0.011 - 26 20 17 13 300 690	46 37 30 23	23 19 15 12	764 0.011 0.021 - 35 28 23 17 400	53 43 35 27	28 22 18 14	955 0.017 0.033 27 44 35 29 22 500 1150	58 46 38 29	35 28 23 17	1146 0.022 0.044 36 46 37 30 23 600	63 50 41 31	42 33 27 21	1337 0.030 0.061 39 51 41 33 26 700	70 56 45 35	44 35 29 22	1528 0.038 0.078 43 53 43 35 27 800	74 59 48 37	46 37 30 23	1719 0.048 0.098 45 60 48 39 30 900	81 65 53 41	51 41 33 26	1910 0.059 0.121 51 65 52 42 33 1000 2300	88 71 57 44	53 43 35 27	2101 0.075 0.150 54 70 56 45 35 1100 2530	95 76 62 48		
	CFM SP TP NC 1w throw 2w throw 3w throw 4w throw FPM CFM SP	14 11 9 7	573 0.005 0.011 - 26 20 17 13 300 690 0.006	46 37 30 23	23 19 15 12	764 0.011 0.021 - 35 28 23 17 400 920 0.012	53 43 35 27	28 22 18 14	955 0.017 0.033 27 44 35 29 22 500 1150 0.019	58 46 38 29	35 28 23 17	1146 0.022 0.044 36 46 37 30 23 600 1380 0.023	63 50 41 31	42 33 27 21	1337 0.030 0.061 39 51 41 33 26 700 1610 0.033	70 56 45 35	44 35 29 22	1528 0.038 0.078 43 53 43 35 27 800 1840 0.041	74 59 48 37	46 37 30 23	1719 0.048 0.098 45 60 48 39 30 900 2070 0.051	81 65 53 41	51 41 33 26	1910 0.059 0.121 51 65 52 42 33 1000 2300 0.064	88 71 57 44	53 43 35 27	2101 0.075 0.150 54 70 56 45 35 1100 2530 0.080	95 76 62 48		
	CFM SP TP NC 1w throw 2w throw 4w throw FPM CFM SP TP	14 11 9 7	573 0.005 0.011 - 26 20 17 13 300 690 0.006 0.012	46 37 30 23	23 19 15 12	764 0.011 0.021 - 35 28 23 17 400 920 0.012	53 43 35 27	28 22 18 14	955 0.017 0.033 27 44 35 29 22 500 1150 0.019 0.035	58 46 38 29	35 28 23 17	1146 0.022 0.044 36 46 37 30 23 600 1380 0.023	63 50 41 31	42 33 27 21	1337 0.030 0.061 39 51 41 33 26 700 1610 0.033	70 56 45 35	44 35 29 22	1528 0.038 0.078 43 53 43 35 27 800 1840 0.041 0.081	74 59 48 37	46 37 30 23	1719 0.048 0.098 45 60 48 39 30 900 0.051 0.101	81 65 53 41	51 41 33 26	1910 0.059 0.121 51 65 52 42 33 1000 2300 0.064 0.126	88 71 57 44	53 43 35 27	2101 0.075 0.150 54 70 56 45 35 1100 2530 0.080 0.155	95 76 62 48		
1.91ft/sq	CFM SP TP NC 1w throw 2w throw 4w throw FPM CFM SP TP NC	14 11 9 7	573 0.005 0.011 - 26 20 17 13 300 690 0.006 0.012	46 37 30 23	23 19 15 12	764 0.011 0.021 - 35 28 23 17 400 920 0.012 19	53 43 35 27	28 22 18 14	955 0.017 0.033 27 44 35 29 22 500 1150 0.019 0.035 29	58 46 38 29	35 28 23 17	1146 0.022 0.044 36 46 37 30 23 600 1380 0.023 38	63 50 41 31	42 33 27 21	1337 0.030 0.061 39 51 41 33 26 700 1610 0.033 0.064 41	70 56 45 35	44 35 29 22	1528 0.038 0.078 43 53 43 35 27 800 1840 0.041 46	74 59 48 37	46 37 30 23	1719 0.048 0.098 45 60 48 39 30 900 2070 0.051 0.101 48	81 65 53 41	51 41 33 26	1910 0.059 0.121 51 65 52 42 33 1000 2300 0.064 54	88 71 57 44	53 43 35 27	2101 0.075 0.150 54 70 56 45 35 1100 2530 0.080 0.155 57	95 76 62 48		
1.91ft/sq	CFM SP TP NC 1w throw 2w throw 3w throw 4w throw FPM CFM SP TP NC 1w throw	14 11 9 7	573 0.005 0.011 - 26 20 17 13 300 690 0.006 0.012 15	46 37 30 23	23 19 15 12 25	764 0.011 0.021 - 35 28 23 17 400 920 0.012 19 37	53 43 35 27	28 22 18 14	955 0.017 0.033 27 44 35 29 22 500 1150 0.019 0.035 29	58 46 38 29	35 28 23 17 37	1146 0.022 0.044 36 46 37 30 23 600 1380 0.023 0.045 38	63 50 41 31	42 33 27 21	1337 0.030 0.061 39 51 41 33 26 700 1610 0.033 0.064 41 54	70 56 45 35	44 35 29 22 47	1528 0.038 0.078 43 53 43 35 27 800 1840 0.041 46 57	74 59 48 37	46 37 30 23	1719 0.048 0.098 45 60 48 39 30 900 2070 0.051 0.101 48 64	81 65 53 41	51 41 33 26	1910 0.059 0.121 51 65 52 42 33 1000 0.064 0.126 54 69	88 71 57 44	53 43 35 27	2101 0.075 0.150 54 70 56 45 35 1100 0.080 0.155 57	95 76 62 48		
1.91ft/sq	CFM SP TP NC 1w throw 2w throw 4w throw FPM CFM SP TP NC 1w throw 2w throw	14 11 9 7	573 0.005 0.011 - 26 20 17 13 300 690 0.006 0.012 15 27	46 37 30 23 23 49 39	23 19 15 12 25 20	764 0.011 0.021 - 35 28 23 17 400 920 0.012 19 37 30	53 43 35 27 27 57 45	28 22 18 14 30 24	955 0.017 0.033 27 44 35 29 22 500 1150 0.019 29 47 37	58 46 38 29	35 28 23 17 37 30	1146 0.022 0.044 36 46 37 30 23 600 1380 0.023 38 49	63 50 41 31 666 53	42 33 27 21 44 35	1337 0.030 0.061 39 51 41 33 26 700 1610 0.033 0.064 41 54	70 56 45 35 74 59	44 35 29 22 47 37	1528 0.038 0.078 43 53 43 35 27 800 1840 0.041 46 57	74 59 48 37 79 63	46 37 30 23 49 39	1719 0.048 0.098 45 60 48 39 30 900 2070 0.051 48 64 51	81 65 53 41 86 69	51 41 33 26 54 43	1910 0.059 0.121 51 65 52 42 33 1000 2300 0.064 69 55	88 71 57 44 44 75	53 43 35 27 57 45	2101 0.075 0.150 54 70 56 45 35 1100 2530 0.080 0.155 57 74	95 76 62 48 101 81		
1.91ft/sq	CFM SP TP NC 1w throw 2w throw 3w throw 4w throw FPM CFM SP TP NC 1w throw	14 11 9 7	573 0.005 0.011 - 26 20 17 13 300 690 0.006 0.012 15	46 37 30 23	23 19 15 12 25	764 0.011 0.021 - 35 28 23 17 400 920 0.012 19 37	53 43 35 27	28 22 18 14	955 0.017 0.033 27 44 35 29 22 500 1150 0.019 0.035 29	58 46 38 29	35 28 23 17 37	1146 0.022 0.044 36 46 37 30 23 600 1380 0.023 0.045 38	63 50 41 31	42 33 27 21	1337 0.030 0.061 39 51 41 33 26 700 1610 0.033 0.064 41 54	70 56 45 35	44 35 29 22 47	1528 0.038 0.078 43 53 43 35 27 800 1840 0.041 46 57	74 59 48 37	46 37 30 23	1719 0.048 0.098 45 60 48 39 30 900 2070 0.051 0.101 48 64	81 65 53 41	51 41 33 26	1910 0.059 0.121 51 65 52 42 33 1000 0.064 0.126 54 69	88 71 57 44	53 43 35 27	2101 0.075 0.150 54 70 56 45 35 1100 0.080 0.155 57	95 76 62 48		

Performance Data



	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	990			1320			1650			1980			2310			2640			2970			3300					
	SP	0.007			0.013			0.021			0.027			0.038			0.047			0.059			0.074				\$	
24x24	TP	0.013			0.023			0.037			0.049			0.069			0.087			0.109			0.136					
3.30ft/sq	NC	15			22			31			42			45			50			53			59					
	1w throw	16	30	54	27	41	62	32	51	68	41	54	73	49	60	81	51	62	87	54	70	95	60	76	103	62	81	111
	2w throw	13	24	43	22	32	50	26	41	54	32	43	58	39	48	65	41	50	69	43	56	76	48	61	82	50	65	89
	3w throw	11	19	35	18	26	40	21	33	44	26	35	48	32	39	53	33	40	56	35	46	62	39	49	67	40	53	72
	4w throw	8	15	27	14	20	31	16	26	34	20	27	37	24	30	41	26	31	43	27	35	47	30	38	51	31	41	56

Performance Notes

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