



Performance Data

700 MA Series

Neck Size	Core Eff. Area (ft ²)	Neck Velocity (FPM) Total Pressure	400	500	600	700	800	1000
			0.038	0.049	0.066	0.092	0.114	0.180
6x6-6	0.124	CFM	49	62	74	87	99	124
		NC	<20	<20	<20	20	20	20
		Throw (ft.)	2 3 5	2 3 7	3 4 8	3 5 9	4 6 12	5 7 13
8x8-8	0.245	CFM	98	122	147	171	196	245
		NC	<20	<20	<20	20	20	20
		Throw (ft.)	3 4 8	4 5 9	4 6 12	6 8 13	7 9 15	8 10 17
10x10-10	0.406	CFM	163	203	244	284	325	406
		NC	<20	<20	20	25	25	25-30
		Throw (ft.)	4 6 12	6 8 14	7 9 16	8 11 17	9 12 19	10 14 22
12x12-12	0.608	CFM	243	304	365	426	487	608
		NC	<20	20	25	25	25-30	30
		Throw (ft.)	6 8 16	8 11 17	10 13 19	12 15 21	12 16 24	14 18 26
14x14-14	0.851	CFM	341	426	511	596	681	851
		NC	<20	20	25	25-30	25-30	30
		Throw (ft.)	8 10 18	11 14 20	14 17 23	15 18 26	16 19 29	17 21 30
16x16-16	1.135	CFM	454	567	681	794	908	1135
		NC	<20	20	25	25-30	30	30
		Throw (ft.)	10 13 21	13 16 24	15 18 28	16 19 29	17 21 32	19 23 35
18x18-18	1.459	CFM	584	729	875	1021	1167	1459
		NC	20	20	25	25-30	30	30
		Throw (ft.)	11 15 25	15 18 28	17 20 32	18 22 34	20 24 36	21 25 39
20x20-20	1.823	CFM	729	912	1094	1276	1459	1823
		NC	20	20	25	25-30	30	30
		Throw (ft.)	13 18 28	16 20 30	19 23 35	21 25 39	22 26 41	23 28 44

Conversion Factors

Pattern	Factor
1-Way	2
2-Way	1.4
2-Way Corner	1.4
3-Way	1.4
4-Way	1

Performance Notes:

- 1) For square neck multiply CFM x 1.21
- 2) Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- 3) Throw data is based on supply air and room air both at isothermal conditions
- 4) Effective core areas listed in the chart are defined as the measurement of space between the blades actually being utilized by the air
- 5) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006