

# Performance Data



## 845 Series

Size	Eff. Area (ft <sup>2</sup> )	Velocity Duct Pt.	300			400			500			600			700			800			900			1000			1200		
			0.007	0.011		0.017		0.024		0.034		0.044		0.055		0.068		0.100											
8x4	0.078	CFM	23			31			39			47			54			62			70			78			93		
		NC	<20			20			25			30			30			35			35			40					
		Throw C	2	3	4	4	4.5	6	5	6	7	6	7	9	6	7.5	11	8	9	12	8	9.5	15	9	10.5	16	11	13	19
		Throw S	2	2.5	4	2	2.5	4	2	2.5	5	2	2.5	5	2	3	4	2	3.5	5	3	3.5	6	3	4	6	4	5	8
10x4	0.102	CFM	31			41			51			61			71			82			92			102			123		
		NC	<20			20			25			30			30			35			35			40					
		Throw C	2	3	4	4	4.5	5.5	5	6	7	6	7	9	7	8	12	8	9.5	12.5	8	9.5	14.5	9	10.5	16	11	13	19
		Throw S	1	2	2	2	2.5	3.5	3	3.5	4.5	4	4.5	6	4	4.5	6.5	4	5	7	4	5.5	8.5	5	6.5	9.5	6	7	11
12x4 8x6	0.126	CFM	38			51			63			76			88			101			114			126			152		
		NC	<20			20			25			30			30			35			35			40					
		Throw C	3	4	5	4	5.5	7	6	7	9	6	7.5	11	8	9	12	8	10	14	9	11	16	10	12	18	12	14.5	22
		Throw S	2	2.5	4	2	3	4	3	3.5	5	4	4.5	6	4	5	7	5	6	8	6	7	9	5	6.5	10	6	7	11
14x4	0.151	CFM	45			60			75			90			105			120			136			151			181		
		NC	<20			20			25			30			30			35			35			40					
		Throw C	3	4	5	5	5.5	6.5	6	7	8.5	6	7.5	10.5	8	9	12	8	10	14	9	11	16	10	12	18	12	14.5	22
		Throw S	2	2.5	3.5	3	3.5	4.5	4	4.5	5.5	4	5	7	5	6	8	6	7	9	6	7	11	7	8	12	8	9.5	14.5
10x6 8x8	0.159	CFM	48			64			80			95			111			127			143			159			191		
		NC	<20			20			25			30			30			35			35			40					
		Throw C	3	4.5	6	5	6.5	8	7	8	10	8	9	12	8	10	14	10	12	16	11	13	19	12	14	21	14	17	25
		Throw S	2	2.5	4	3	3.5	5	4	4.5	6	4	5	7	5	6	8	6	7	9	6	7.5	12	8	9	13	9	10.5	16
12x6	0.197	CFM	59			79			98			118			138			157			177			197			236		
		NC	<20			20			25			30			35			35			40			40					
		Throw C	4	5	6	5	6.5	7.5	7	7.5	9.5	7	8.5	11.5	8	10	14	10	12	16	10	12.5	19	11	13.5	20	13	16	24
		Throw S	2	3	4	4	4.5	5.5	5	6	7	6	7	9	6	7.5	10.5	7	8.5	11.5	7	9	15	9	10.5	16	10	12	18
14x6	0.234	CFM	70			94			117			140			164			187			211			234			281		
		NC	<20			20			25			30			35			35			40			40					
		Throw C	5	5.5	6.5	6	7	9	8	9	11	8	10	14	10	12	16	11	13.5	18	12	14.5	22	13	16	24	15	19	29
		Throw S	4	4.5	6	5	5.5	7	5	6.5	8	6	7	9	7	8	11	8	9.5	13	8	10	15	9	11	17	11	13.5	20
12x8 10x10	0.268	CFM	80			107			134			161			188			214			241			268			322		
		NC	<20			20			25			30			35			35			40			40					
		Throw C	5	5.5	7	6	7	9	8	9	11	8	10	14	10	12	16	12	14	19	13	15	22	13	16	25	16	20	30
		Throw S	4	5	6	5	5.5	6.5	6	7	9	7	8	11	8	9.5	12.5	9	10.5	14.5	9	11	17	10	12	18	13	15	23
14x8	0.319	CFM	96			128			160			191			223			255			287			319			383		
		NC	<20			20			25			30			35			40			40			40					
		Throw C	5	6.5	8	7	8.5	11	9	11.5	15	10	12	16	12	14	19	13	16	22	14	17	26	15	19	29	17	22	34
		Throw S	4	5	6	6	6.5	8	7	7.5	10	7	8.5	12	8	10	14	10	11.5	16	10	12	18	11	13.5	20	13	16	24

### Performance Notes:

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