

# Performance Data



## 850 Series

Size	Eff. Area (ft <sup>2</sup> )	Velocity Duct Pt.	300			400			500			600			700			800			900			1000			1200		
			0.006			0.010			0.016			0.023			0.031			0.040			0.051			0.063			0.090		
6x4	0.090	CFM	27			36			45			54			63			72			81			90			108		
		NC	<20			20			25			25			30			30			35			35			40		
		Spread	3.5			5			8			6			8			10			11			12			15		
		Throw	1	2	2	1	2	3	2	2.5	4	2	3	4	3	3.5	5	4	4.5	6	4	4.5	7	4	5	7	5	6	9
8x4	0.126	CFM	38			50			63			76			88			101			113			126			151		
		NC	<20			20			25			25			30			30			35			35			40		
		Spread	4			6			7			9			10			12			13			15			18		
		Throw	1	2	2	2	2.5	3.5	3	3.5	4.5	3	4	5	4	4.5	6	4	5	7	4	5	8	5	6	9	6	7	11
10x4	0.163	CFM	49			65			81			98			114			130			146			163			195		
		NC	<20			20			25			25			30			30			35			35			40		
		Spread	5			7			8.5			10			12			14			15			17			20		
		Throw	1	2	3	2	2.5	4	3	3.5	5	4	4.5	6	4	5	7	5	6	8	5	6	9	5	6.5	10	7	8	12
12x4	0.199	CFM	60			79			99			119			139			159			179			199			238		
		NC	<20			20			25			25			30			35			35			40			40		
		Spread	5.5			7			9			11			13			15			17			19			22		
		Throw	2	2.5	3.5	3	3.5	4.5	4	4.5	5.5	4	5	7	5	6	8	5	6	8	6	6.5	9.5	6	7	11	8	9	13
14x4	0.235	CFM	70			94			117			141			164			188			211			235			282		
		NC	<20			20			25			25			30			35			35			40			40		
		Spread	6			8			10			12			14			16			18			20			24		
		Throw	2	2.5	4	3	3.5	5	4	4.5	6	4	5	7	5	6	8	6	7	9	6	7	11	7	8	12	8	9.5	15
8x6	0.211	CFM	63			84			105			127			148			169			190			211			253		
		NC	<20			20			25			25			30			35			35			40			40		
		Spread	5.5			7			9			11			13			15			17			19			22		
		Throw	2	2.5	3.5	3	3.5	4.5	4	4.5	5.5	4	5	7	5	6	8	5	6	8	5	6.5	9.5	6	7	11	8	9	13
10x6	0.271	CFM	81			109			136			163			190			217			244			271			326		
		NC	<20			20			25			25			30			35			35			40			40		
		Spread	6			9			11			13			15			17			19			22			26		
		Throw	2	2.5	4	3	3.5	5	4	4.5	6	5	6	8	6	7	9	6	7	11	7	8	12	8	9	13	9	10.5	16
12x6	0.332	CFM	99			133			166			199			232			265			298			332			398		
		NC	<20			20			25			30			35			35			40			40			40		
		Spread	5			7			9			14			16			19			21			23			26		
		Throw	1	2	2	3	3.5	4.5	4	4.5	5.5	5	6	8	6	7	9	6	7.5	10.5	7	8.5	12.5	8	9.5	14.5	9	11	17
14x6	0.392	CFM	118			157			196			235			274			313			353			392			470		
		NC	<20			20			25			30			35			35			40			40			40		
		Spread	7			10			12			14.5			17			19			22			24			29		
		Throw	2	3	4	4	4.5	6	5	5.5	7	5	6	8	6	7	9	7	8.5	12	8	9	13	8	9.5	15	10	11.5	17
16x6	0.452	CFM	136			181			226			271			316			362			407			452			543		
		NC	<20			20			25			30			35			35			40			40			45		
		Spread	9			12			16			18			21			24			26			30			36		
		Throw	3	4	5	5	5.5	6.5	6	6.5	8	6	7	9.5	7	8.5	11.5	8	10	13	9	10.5	15.5	9	11	17	12	14	20

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Size	Eff. Area (ft <sup>2</sup> )	Velocity Duct Pt.	300			400			500			600			700			800			900			1000			1200		
			0.006			0.010			0.016			0.023			0.031			0.040			0.051			0.063			0.090		
18x6	0.512	CFM	154			205			256			307			359			410			461			512			615		
		NC	<20			20			25			25			30			35			40			40			40		
		Spread	10			13			16			20			23			26			30			33			39		
		Throw	4	4.5	6	6	6.5	8	6	7	9	7	8.5	12	8	10	14	9	11	15	10	12	18	11	13	19	13	16	24
20x6	0.573	CFM	172			229			286			344			401			458			515			573			687		
		NC	<20			20			25			30			35			40			40			40			45		
		Spread	10			13			16			20			23			26			30			33			39		
		Throw	4	4.5	5.5	6	6.5	7.5	6	7	9	7	8.5	11.5	8	10	15	9	11	16	11	13	19	12	14	20	14	17	25
24x6	0.693	CFM	208			277			347			416			485			555			624			693			832		
		NC	<20			20			25			30			35-40			40			40-45			40-45			>45		
		Spread	10			13			16			20			23			26			30			33			39		
		Throw	4	4.5	6	6	6.5	8	6	7	9	7	8.5	12	8	10	16	9	11	17	12	14	20	13	15	21	15	18	26
10x8	0.345	CFM	103			138			172			207			241			276			310			345			414		
		NC	<20			20			25			30			35			35			40			40			45		
		Spread	8			11			14			17			20			22			24			28			33		
		Throw	3	3.5	5	4	5	6	6	6.5	8	6	7	9	7	8.5	12	8	9.5	13	8	9.5	15	9	11	17	11	13.5	20
12x8	0.421	CFM	126			169			211			253			295			337			379			421			506		
		NC	<20			20			25			30			35			35			40			40			45		
		Spread	9			12			16			18			21			24			26			30			36		
		Throw	3	4	5	5	5.5	6.5	6	7	8.5	7	7.5	10.5	7	8.5	11.5	8	10	14	9	11	18	10	12	18	12	14.5	22
14x8	0.498	CFM	149			199			249			299			349			398			448			498			598		
		NC	<20			20			25			30			35			40			40			40			45		
		Spread	9			12			16			19			22			25			28			31			38		
		Throw	3	4	5.5	5	5.5	7	6	7	8.5	7	8	11	7	9	14	8	10	15	10	12	19	10	13	20	12	15	25
16x8	0.575	CFM	172			230			287			345			402			460			517			575			690		
		NC	<20			20			25			30			35			40			40			40			45		
		Spread	10			13			16			20			23			26			30			33			39		
		Throw	4	4.5	6	6	6.5	8	6	7	9	7	8.5	12	8	10	16	9	11	17	10	12	20	11	13	22	13	16	27
18x8	0.651	CFM	195			260			326			391			456			521			586			651			781		
		NC	<20			20			25			30			35-40			40			40-45			40-45			>45		
		Spread	10			13			16			20			23			26			30			33			39		
		Throw	4	4.5	5.5	6	6.5	7.5	6	7	9	7	8.5	11.5	8	10	17	9	11	18	11	13	21	12	14	24	14	17	28
6x6	0.126	CFM	38			51			63			76			88			101			114			126			152		
		NC	<20			20			25			25			30			30			35			40			40		
		Spread	7			9.5			12			14			16			19			21			24			28		
		Throw	2	2.5	3.5	3	3.5	4.5	4	4.5	5.5	4	5	7	5	6	8	5	6	8	5	6.5	9.5	6	7	11	8	9	13

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Size	Eff. Area (ft <sup>2</sup> )	Velocity Duct Pt.	300	400	500	600	700	800	900	1000	1200
			0.006	0.010	0.016	0.023	0.031	0.040	0.051	0.063	0.090
8x8	0.253	CFM	76	101	126	152	177	202	228	253	303
		NC	<20	20	25	25	30	30	35	40	40
		Spread	7	9.5	12	14	16	19	21	24	28
		Throw	2   3   4	4   4.5   5.5	5   5.5   6.5	5   6   8	6   7   9	7   7.5   10.5	8   9   13	8   9.5   14.5	9   11   17
10x10	0.443	CFM	133	177	221	266	310	354	398	443	531
		NC	<20	20	25	25	30	30	35	40	40
		Spread	7	9.5	12	14	16	19	21	24	28
		Throw	3   4   5	5   5.5   6.5	6   7   8.5	7   7.5   10.5	7   8.5   11.5	8   10   14	9   11   18	10   12   18	12   14.5   22
12x12	0.663	CFM	199	265	332	398	464	530	597	663	796
		NC	<20	20	25	25	30	30	35	40	40
		Spread	7	9.5	12	14	16	19	21	24	28
		Throw	4   4.5   6	6   6.5   8	6   7   9	7   8.5   12	8   10   16	9   11   17	10   12   20	11   13   22	13   16   27
14x14	0.917	CFM	275	367	459	550	642	734	826	917	1101
		NC	<20	20	25	25	30	30	35	40	40
		Spread	7	9.5	12	14	16	19	21	24	28
		Throw	5   5   6	7   7   9	7   8   10	8   10   13	9   12   20	10   13   21	13   15   24	14   16   28	16   20   32

### Performance Notes:

- 1) Throw value was measured in feet for a terminal velocity 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 chart are defined as the measurement of space
- 4) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006