

Performance Data



931 Series

Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM) Velocity Pressure	300		400			500			600			700			800			1000			1200			1400		
			0.004		0.008		0.013		0.018		0.025		0.033		0.051		0.074		0.1									
6x4	0.122	CFM	36		49			61			73			85			97			122			146			170		
		NC	<20		<20			<20			20			25			30			35			40			40		
		Throw (ft.)	4	4.5	5.5	5	6	8	6	7	9	7	8	12	8	9	13	11	12	14	12	13	19	13	14	22	16	18
10x4	0.210	CFM	63		84			105			126			147			168			210			252			293		
		NC	<20		<20			<20			20			25			30			35			40			45		
		Throw (ft.)	4	5	6	5	6.5	8.5	8	8.5	9.5	7	8.5	11	10	11	15	11	12	16	13	14	20	14	16	24	18	20
8x6 12x4	0.260	CFM	78		104			130			156			182			208			260			312			364		
		NC	<20		<20			<20			20			25			30			35			40			45		
		Throw (ft.)	5	5.5	6.5	6	7	9	8	9	11	9	10	14	11	12	16	12	13.5	18	14	16	24	16	18	28	19	22
14x4	0.298	CFM	89		119			149			179			208			238			298			357			417		
		NC	<20		<20			<20			20			25			30			35			40			45		
		Throw (ft.)	5	6	7	6	7.5	9.5	9	10	12	10	11	15	12	14	19	13	15	20	16	18	27	18	21	33	21	24
10x6 16x4	0.329	CFM	99		132			165			198			231			264			329			395			461		
		NC	<20		<20			<20			20			25			30			35			40			45		
		Throw (ft.)	5	6.5	7.5	7	8	10	10	11	13	11	12	16	13	14.5	20	14	16	22	17	19	29	19	22	34	22	26
12x6 18x4	0.399	CFM	120		159			199			239			279			319			399			478			558		
		NC	<20		<20			<20			20			25			30			35			40			45-50		
		Throw (ft.)	6	7	9	9	10	12	10	11.5	14.5	12	13.5	18	14	16	22	16	18	24	19	22	32	22	26	38	25	30
10x8 14x6	0.449	CFM	135		180			225			270			314			359			449			539			629		
		NC	<20		<20			<20			20			25			30			35			40			45-50		
		Throw (ft.)	7	8	10	10	11	13	11	13	16	14	16	21	15	17	23	18	20	27	20	23	35	24	28	42	27	33
12x8 16x6	0.544	CFM	163		217			272			326			381			435			544			652			761		
		NC	<20		<20			<20			20			25			30			35			40			45-50		
		Throw (ft.)	8	8.5	11	10	11.5	13.5	12	13.5	17	14	16	22	16	18	25	18	20	28	21	24	36	25	29	45	28	34
10x10 18x6	0.569	CFM	171		228			285			341			398			455			569			683			797		
		NC	<20		<20			<20			20			25			30			35			40			45-50		
		Throw (ft.)	8	8.5	11	10	11.5	14.5	12	14.5	18	15	17	23	18	20	27	19	22	30	22	26	38	26	31	47	29	36
14x8	0.638	CFM	191		255			319			383			447			510			638			766			893		
		NC	<20		<20			<20			20			25			30			35			40			45-50		
		Throw (ft.)	8	9	11.5	11	13	16	14	16	19	16	18	24	19	21	28	20	23	31	23	27	39	27	32	48	30	37
12x10	0.689	CFM	207		275			344			413			482			551			689			826			964		
		NC	<20		<20			<20			20			25			30			35			40			45-50		
		Throw (ft.)	8	9.5	12	12	13.5	17	15	17	20	17	19	25	19	22	29	21	24	32	24	28	40	27	33	49	31	38
16x8	0.732	CFM	220		293			366			439			513			586			732			879			1025		
		NC	<20		<20			<20			20			25			30			35-40			40-50			>50		
		Throw (ft.)	9	10	12.5	12	14	17	15	17	20	17	19	25	20	23	30	22	25	33	25	29	41	29	35	51	32	40

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Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM) Velocity Pressure	300		400			500			600			700			800			1000			1200			1400			
			0.004			0.008			0.013			0.018			0.025			0.033			0.051			0.074			0.1		
12x12 14x10	0.834	CFM	250			333			417			500			583			667			834			1000			1167		
		NC	<20			<20			<20			20			25			30			35-40			40-50			>50		
		Throw (ft.)	9	10	12.5	12	14	18	16	18	21	18	20	26	20	23	34	23	26	35	25	30	46	30	36	55	33	42	65
16x10 20x8	0.965	CFM	290			386			483			579			676			772			965			1158			1351		
		NC	<20			<20			<20			20			25			30			35-40			40-50			>50		
		Throw (ft.)	9	11	13.5	13	15	19	17	19	23	19	21	28	21	24	35	24	28	38	27	33	50	33	41	59	38	47	70
18x10	1.047	CFM	314			419			524			628			733			838			1047			1257			1466		
		NC	<20			<20			20			25			30			30-35			35-40			40-45			>50		
		Throw (ft.)	10	11.5	14	14	16	20	18	20	24	19	22	29	22	25	36	25	29	39	28	34	51	34	42	60	39	48	71
14x14 20x10	1.148	CFM	345			459			574			689			804			919			1148			1378			1608		
		NC	<20			<20			20			25			30			30-35			35-40			40-45			>50		
		Throw (ft.)	10	11.5	14.5	14	16	20	18	20	24	19	22	30	23	26	37	25	30	40	29	35	53	34	42	62	40	49	73
18x12 26x8	1.268	CFM	380			507			634			761			887			1014			1268			1521			1775		
		NC	<20			<20			20			25			30			30-35			35-40			40-45			>50		
		Throw (ft.)	11	12.5	15	14	16	20	18	20	24	20	23	32	23	27	38	26	31	42	29	35	55	35	43	65	43	53	75
16x14	1.318	CFM	396			527			659			791			923			1055			1318			1582			1846		
		NC	<20			<20			20			25			30			30-35			35-40			40-45			>50		
		Throw (ft.)	11	12	15	15	17	21	19	21	24	20	23	33	24	28	39	27	32	43	30	36	56	36	44	66	44	55	77
16x16	1.514	CFM	454			605			757			908			1060			1211			1514			1816			2119		
		NC	<20			<20			20			25			30			30-35			35-40			40-45			>50		
		Throw (ft.)	12	13	16	16	18	22	19	22	26	22	25	35	25	30	41	28	34	46	32	39	60	38	47	71	46	57	83
24x12	1.702	CFM	511			681			851			1021			1191			1362			1702			2042			2383		
		NC	<20			<20			20			25			30			30-35			35-40			40-45			>50		
		Throw (ft.)	13	14.5	18	17	19	23	20	23	28	23	27	37	27	32	43	29	36	48	34	42	64	41	50	76	48	59	89
18x18	1.929	CFM	579			772			965			1158			1350			1543			1929			2315			2701		
		NC	<20			<20			20			25			30			30-35			35-40			40-45			>50		
		Throw (ft.)	13	14.5	19	18	20	24	21	24	30	24	28	38	27	32	44	30	37	51	36	44	66	43	53	79	50	62	94
30x12	2.136	CFM	641			855			1068			1282			1495			1709			2136			2564			2991		
		NC	<20			<20			20			25			30			30-35			35-40			45-50			>50		
		Throw (ft.)	14	16	20	19	22	26	22	26	32	25	30	40	29	35	47	32	40	54	38	47	71	46	57	85	53	66	98
24x24	3.478	CFM	1043			1391			1739			2087			2435			2782			3478			4174			4869		
		NC	<20			20			25			30			30-35			35-40			45-50			>50			>50		
		Throw (ft.)	20	23	29	24	29	35	27	33	45	31	38	52	36	44	60	42	52	78	50	62	94	60	73	109	69	85	126

Performance Notes:

- 1) Performance data calculated with blades set at 0°
- 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 chart are defined as the measurement of space between the blades actually utilized by the air
- 5) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006