Performance Data

A J Manufacturing Co., Inc.
8701 Elmwood Avenue
Suite 400
Kansas City, MO 64132-1603
www.ajmfg.com

A150 Series

Duct Size	Core Eff. Area (ft^2)	Neck Velocity (FPM) / Velocity Pressure	300 / 0.004			400 / 0.008			500 / 0.013			600 / 0.018			700 / 0.025			800 / 0.033			1000 / 0.051			1200 / 0.074			1400 / 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	24
7x4	0.143	CFM	43			57			71			86			100			114			143			171			200		
		NC	<20			<20			<20			20			25			30			35			40			40		
		Throw (ft.)	4	5	6	5	6.5	8.5	7	8	10	8	9	13	9	10	13	12	13	15	13	14	21	14	16	24	18	20	26
6x5	0.156	CFM	47			63			78			94			109			125			156			188			219		
		NC	<20			<20			<20			20			25			30			35			40			40		
		Throw (ft.)	4	5	6	5	6.5	8.5	7	8	10	8	9	13	9	10	13	12	13	15	13	14	21	14	16	24	18	20	26
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	29
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	32
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	38
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	40
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	44
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	49
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	52
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	54
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	4	16	19	16	18	24	19	21	28	20	23	31	23	27	39	27	32	48	30	37	55

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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	56
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	58
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	0.928	CFM	278			371			464			557			650			742			928			1114			1299		
		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 28x10	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 32x10	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 26x14	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

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Duct Size	Core Eff. Area (ft^2)	Neck Velocity (FPM)	300			400			500			600			700			800			1000			1200			1400		
		Velocity Pressure	0.004			0.008			0.013			0.018			0.025			0.033			0.051			0.074			0.1		
36x12 32x14	2.571	CFM	771			1028			1285			1542			1799			2056			2571			3085			3599		
		NC	<20			<20			20			25			30			30-35			35-40			45-50			>50		
		Throw (ft.)	15	17	21	20	23	29	24	29	35	27	33	45	31	38	52	36	44	60	42	52	78	50	62	94	60	73	109
24x24 36x16	3.465	CFM	1039			1386			1732			2079			2425			2772			3465			4158			4850		
		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