

Performance Data

A150 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	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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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																
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
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
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
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
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
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
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
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
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
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
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
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

Performance Data

A150 Series

Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM)	300		400			500			600			700			800			1000			1200			1400																						
			Velocity	Pressure	CFM	NC	Throw (ft.)	CFM	NC	Throw (ft.)	CFM	NC	Throw (ft.)	CFM	NC	Throw (ft.)	CFM	NC	Throw (ft.)	CFM	NC	Throw (ft.)	CFM	NC	Throw (ft.)																							
36x12 32x14	2.571	300	0.004	771	<20	15	17	21	1028	<20	20	23	29	1285	20	24	29	35	1542	25	27	33	45	1799	30	31	38	52	2056	30-35	36	44	60	2571	35-40	42	52	78	3085	45-50	50	62	94	3599	>50	60	73	109
		400	0.008	1039	<20	20	23	29	1386	20	24	29	35	1732	25	27	33	45	2079	30	31	38	52	2425	30-35	36	44	60	2772	35-40	42	52	78	3465	45-50	50	62	94	4158	>50	60	73	109	4850	>50	69	85	126
		500	0.013	1039	<20	20	23	29	1386	20	24	29	35	1732	25	27	33	45	2079	30	31	38	52	2425	30-35	36	44	60	2772	35-40	42	52	78	3465	45-50	50	62	94	4158	>50	60	73	109	4850	>50	69	85	126

Performance Notes:

- Performance data calculated with blades set at 0°
- Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- Throw data is based on supply air and room air both at isothermal conditions
- Effective core areas listed in chart are defined as the measurement of space between the blades actually utilized by the air
- Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006