

RS52 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										
8x4	0.166	CFM	50		66			83			99			116			132			166			199			232			
		NC	<20		<20			<20			20			25			30			35			40			45			
10x4	0.210	Throw (ft.)	4	4.5	5.5	5	6	7.5	7	7.5	8.5	7	8	10	8	9	12	9	10	14	11	13	18	12	14	20	15	17	27
		CFM	63		84			105			126			147			168			210			252			293			
12x4	0.254	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
14x4	0.298	CFM	76		101			127			152			178			203			254			304			355			
		NC	<20		<20			<20			20			25			30			35			40			45			
14x4	0.298	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
		CFM	89		119			149			179			208			238			298			357			417			
10x6	0.329	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	0.399	CFM	120		159			199			239			279			319			399			478			558			
		NC	<20		<20			<20			20			25			30			35			40			45-50			
14x6	0.468	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
		CFM	140		187			234			281			328			374			468			561			655			
14x6	0.468	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
16x6	0.537	CFM	161		215			269			322			376			430			537			645			752			
		NC	<20		<20			<20			20			25			30			35			40			45-50			
18x6	0.606	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
		CFM	182		243			303			364			424			485			606			728			849			
14x8	0.638	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	55
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			
18x8	0.827	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
		CFM	248		331			413			496			579			661			827			992			1158			
20x6	0.676	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
20x8	0.921	CFM	276		368			461			553			645			737			921			1105			1289			
		NC	<20		<20			<20			20			25			30			35-40			40-50			>50			
22x6	0.745	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
		CFM	224		298			373			447			522			596			745			894			1043			
22x8	1.016	NC	<20		<20			<20			20			25			30-35			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	34	25	29	42	29	35	52	32	40	60
24x6	0.814	CFM	305		406			508			610			711			813			1016			1219			1422			
		NC	<20		<20			<20			20			25			30			35-40			40-45			>50			
24x8	1.110	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	61	39	48	73
		CFM	244		326			407			488			570			651			814			977			1140			
24x8	1.110	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
24x8	1.110	CFM	333		444			555			666			777			888			1110			1332			1554			
		NC	<20		<20			<20			20			25			30			30-35			35-40			>50			
24x8	1.110	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	75

Performance Notes:

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