

Performance Data

MODEL SEC-9RR2 - 1/8" Dia. Holes on 3/16" Staggered Centers - Supply Performance Data

Nominal Size																																
W	H	Nom Duct	Core Vel,fpm		200		250		300		350		400		500		600		700		800											
Width	Height	Area, ft2	Ps		0.01		0.02		0.03		0.04		0.06		0.09		0.12		0.17		0.22											
6"	6"	0.25	CFM		30		40		50		60		80		90		110		130													
			NC		<20		<20		<20		<20		<20		<20		<20		23		27											
			Throw		3	5	10	5	7	14	6	9	17	6	9	17	7	10	21	9	14	25	10	16	27	13	19	30	15	23	32	
			CFM		60		80		90		110		130		160		190		220		250											
8"	8"	0.44	NC		<20		<20		<20		<20		<20		<20		21		26		30											
			Throw		5	7	15	7	10	20	7	11	22	9	13	27	11	16	32	13	20	36	16	23	39	18	27	42	20	31	45	
			CFM		80		100		120		140		160		210		250		290		330											
			NC		<20		<20		<20		<20		<20		<20		22		27		31											
10"	8"	0.56	Throw		6	9	17	7	11	22	9	13	26	10	15	30	11	17	34	15	23	41	18	27	45	21	31	48	24	36	51	
			CFM		110		130		160		190		210		270		320		370		430											
			NC		<20		<20		<20		<20		<20		<20		23		28		32											
			Throw		7	10	21	8	12	25	10	15	30	12	18	36	13	20	40	17	26	46	20	30	51	23	35	54	27	41	59	
10"	10"	0.69	CFM		160		200		240		280		320		400		480		560		640											
			NC		<20		<20		<20		<20		<20		<20		25		30		34											
			Throw		8	12	25	10	15	31	12	18	37	14	22	43	16	25	49	21	31	57	25	37	62	29	43	67	33	49	72	
			CFM		230		280		340		400		450		560		680		790		900											
14"	14"	1.36	NC		<20		<20		<20		<20		<20		21		27		32		36											
			Throw		10	15	30	12	18	36	15	22	44	17	26	52	19	29	58	24	36	67	29	44	74	34	51	79	39	58	85	
			CFM		300		370		440		520		590		740		890		1040		1190											
			NC		<20		<20		<20		<20		<20		<20		22		28		33		37									
18"	14"	1.75	Throw		11	17	34	14	21	42	17	25	50	20	29	59	22	33	67	28	42	77	34	50	84	39	59	91	45	67	98	
			CFM		390		490		580		680		780		970		1170		1360		1560											
			NC		<20		<20		<20		<20		<20		23		29		34		38											
			Throw		13	19	39	16	24	48	19	29	57	22	34	67	26	39	77	32	48	88	39	58	97	45	67	104	51	77	112	
20"	20"	2.78	CFM		490		610		730		850		980		1220		1460		1710		1950											
			NC		<20		<20		<20		<20		<20		24		30		35		39											
			Throw		14	22	43	18	27	54	21	32	64	25	38	75	29	43	87	36	54	99	43	64	108	50	76	117	57	86	125	
			CFM		720		900		1080		1260		1440		1800		2160		2520		2880											
24"	24"	4.00	NC		<20		<20		<20		<20		<20		26		32		37		41											
			Throw		17	26	52	22	33	66	26	39	79	31	46	92	35	52	105	44	66	120	52	79	131	61	92	142	70	105	152	
			CFM		1150		1440		1720		2010		2300		2870		3440		4020		4590											
			NC		<20		<20		<20		<20		<20		21		28		34		39		43									
30"	30"	6.25	Throw		22	33	66	28	41	83	33	50	99	39	58	116	44	66	132	55	83	152	66	99	166	77	116	179	88	132	192	
			CFM		1680		2100		2520		2940		3350		4190		5030		5870		6710											
			NC		<20		<20		<20		<20		<20		22		30		35		40		44		49		54		59		64	
			Throw		27	40	80	33	50	100	40	60	120	47	70	140	53	80	160	67	100	183	80	120	201	93	140	217	107	160	232	

MODEL SEC-9RR3 - 3/16" Dia. Holes on 9/32" Staggered Centers - Supply Performance Data

Nominal Size																																																															
W	H	Nom Duct Area, ft2	Core Vel,fpm	200						250						300						350						400						500						600						700						800											
Width	Height			Ps	0.01						0.02						0.03						0.04						0.05						0.08						0.11						0.15						0.19										
6"	6"	0.25	CFM	30						40						50						60						80						90						110						130																	
			NC	<20						<20						<20						<20						<20						<20						22						26																	
			Throw	3	5	10	5	7	14	6	9	17	6	9	17	7	10	21	9	14	25	10	16	27	13	19	30	15	23	32																																	
8"	8"	0.44	CFM	60						80						90						110						130						160						190						220						250											
			NC	<20						<20						<20						<20						<20						<20						20						25						29											
			Throw	5	7	15	7	10	20	7	11	22	9	13	27	11	16	32	13	20	36	16	23	39	18	27	42	20	31	45																																	
10"	8"	0.56	CFM	80						100						120						140						160						210						250						290						330											
			NC	<20						<20						<20						<20						<20						21						26						30																	
			Throw	6	9	17	7	11	22	9	13	26	10	15	30	11	17	34	15	23	41	18	27	45	21	31	48	24	36	51																																	
10"	10"	0.69	CFM	110						130						160						190						210						270						320						370						430											
			NC	<20						<20						<20						<20						<20						<20						22						27						31											
			Throw	7	10	21	8	12	25	10	15	30	12	18	36	13	20	40	17	26	46	20	30	51	23	35	54	27	41	59																																	
12"	12"	1.00	CFM	160						200						240						280						320						400						480						560						640											
			NC	<20						<20						<20						<20						<20						<20						24						29						33											
			Throw	8	12	25	10	15	31	12	18	37	14	22	43	16	25	49	21	31	57	25	37	62	29	43	67	33	49	72																																	
14"	14"	1.36	CFM	230						280						340						400						450						560						680						790						900											
			NC	<20						<20						<20						<20						<20						25						30						35																	
			Throw	10	15	30	12	18	36	15	22	44	17	26	52	19	29	58	24	36	67	29	44	74	34	51	79	39	58	85																																	
18"	14"	1.75	CFM	300						370						440						520						590						740						890						1040						1190											
			NC	<20						<20						<20						<20						<20						21						27						32						36											
			Throw	11	17	34	14	21	42	17	25	50	20	29	59	22	33	67	28	42	77	34	50	84	39	59	91	45	67	98																																	
18"	18"	2.25	CFM	390						490						580						680						780						970						1170						1360						1560											
			NC	<20						<20						<20						<20						<20						22						28						33						37											
			Throw	13	19	39	16	24	48	19	29	57	22	34	67	26	39	77	32	48	88	39	58	97	45	67	104	51	77	112																																	
20"	20"	2.78	CFM	490						610						730						850						980						1220						1460						1710						1950											
			NC	<20						<20						<20						<20						<20						23						29						34						38											
			Throw	14	22	43	18	27	54	21	32	64	25	38	75	29	43	87	36	54	99	43	64	108	50	76	117	57	86	125																																	
24"	24"	4.00	CFM	720						900						1080						1260						1440						1800						2160						2520						2880											
			NC	<20						<20						<20						<20						<20						25						31						35						40											
			Throw	17	26	52	22	33	66	26	39	79	31	46	92	35	52	105	44	66	102	50	76	120	57	99	131	61	92	142	70	105	152																														
30"	30"	6.25	CFM	1150						1440						1720						2010						2300						2870						3440						4020						4590											
			NC	<20						<20						<20						<20						<20						27						33						37						42											
			Throw	22	33	66	28	41	83	33	50	99	39	58	116	44	66	132	55	83	152	66	99	166	77	116	179	88	132	192																																	
36"	36"	9.00	CFM	1680						2100						2520						2940						3350						4190						5030						5870						6710											
			NC	<20						<20						<20						<20						<20						21						28						34						39						43					
			Throw	27	40	80	33	50	100	40	60	120	47	70	140	53	80	160	67	100	183	80	120	201	93	140	217	107	160	232																																	

Data determined in accordance with ANSI/ASHRAE Standard 70-1991

Data based on Actual Neck Size = Nominal Neck Size - 1/4"

Ps - Static Pressure, inches w.g.

Throw - Distance, in feet, to terminal velocities of 150,100,50 fpm, respectively.

NC - Noise Criteria based on room attenuation of 10 dB

For Return use, $-Ps = Ps$ (above) $\times 1.2$, $NC = NC$ (above) $+2$