

MODEL SEG-9SP2 - 1/8" Dia. Holes on 3/16" Staggered Centers - Supply Performance Data

Nominal Size		Nom Duct Area, ft ²	Core Vel,fpm	Static Pressure (Ps)																										
W	H			200	250	300	350	400	500	600	700	800																		
Width	Height		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	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
12"	12"	1.00	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	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	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	22	30	35	40	44																		
			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
36"	36"	9.00	CFM	2700	3300	3900	4500	5100	6100	7100	8100	9100																		
			NC	<20	<20	<20	<20	<20	23	30	35	40	44																	
			Throw	33	48	96	39	57	114	45	68	136	54	81	162	67	100	200	100	150	300	120	180	360	150	225	450	225	337	675
			CFM	3600	4500	5400	6300	7200	8600	10200	11800	13400																		

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) x 1.2, NC = NC (above) +2

MODEL SEG-9SP3 - 3/16" Dia. Holes on 9/32" Staggered Centers - Supply Performance Data

Nominal Size		Nom Duct Area, ft ²	Core Vel,fpm	Static Pressure (Ps)																										
W	H			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	50	60	80	90	110	130																		
			NC	<20	<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
			CFM	60	80	90	110	130	160	190	220	250																		
8"	8"	0.44	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
			CFM	80	100	120	140	160	210	250	290	330																		
			NC	<20	<20	<20	<20	<20	<20	21	26	30																		
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	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
			CFM	230	280	340	400	450	560	680	790	900																		
14"	14"	1.36	NC	<20	<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
			CFM	300	370	440	520	590	740	890	1040	1190																		
			NC	<20	<20	<20	<20	<20	21	27	32	36																		
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	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
			CFM	720	900	1080	1260	1440	1800	2160	2520	2880																		
24"	24"	4.00	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	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	27	33	37	42																		
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	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						

MODEL SEG-9SP5 - Supply Performance Data

5/32" Diameter Holes on 7/32" Stg. Centers

Nominal Size		Nom Duct Area, ft ²	Core Vel, fpm	200			300			400			500			600			700		
W Width	H Height			Ps	0.01			0.02			0.03			0.05			0.08			0.10	
6"	6"	0.25	CFM	30			50			60			80			90			110		
			NC	<20			<20			<20			22			28			32		
			Throw	2	3	7	4	6	11	5	7	12	6	9	14	7	10	15	8	12	17
8"	8"	0.44	CFM	60			90			130			160			190			220		
			NC	<20			<20			<20			25			31			36		
			Throw	3	5	10	5	7	15	7	11	18	9	13	20	10	15	22	12	17	24
10"	8"	0.56	CFM	80			120			160			210			250			290		
			NC	<20			<20			20			26			32			37		
			Throw	4	6	11	6	9	17	8	11	20	10	15	23	12	18	25	14	19	27
10"	10"	0.69	CFM	110			160			210			270			320			370		
			NC	<20			<20			21			28			33			38		
			Throw	5	7	14	7	10	20	9	13	23	11	17	26	13	20	29	15	22	31
12"	12"	1.00	CFM	160			240			320			400			480			560		
			NC	<20			<20			23			29			35			40		
			Throw	5	8	16	8	12	24	11	16	29	14	20	32	16	24	35	19	27	38
14"	14"	1.36	CFM	230			340			450			560			680			790		
			NC	<20			<20			24			31			36			41		
			Throw	7	10	20	10	15	29	13	19	34	16	24	38	20	29	42	23	32	45
18"	14"	1.75	CFM	300			440			590			740			890			1040		
			NC	<20			<20			25			32			38			42		
			Throw	8	11	23	11	17	33	15	22	39	19	28	44	22	33	48	26	37	52
18"	18"	2.25	CFM	390			580			780			970			1170			1360		
			NC	<20			<20			26			33			39			43		
			Throw	9	13	26	13	19	38	17	26	45	21	32	50	26	38	55	30	42	59
20"	20"	2.78	CFM	490			730			980			1220			1460			1710		
			NC	<20			<20			27			34			40			44		
			Throw	10	14	29	14	21	43	19	29	50	24	36	56	28	43	62	33	47	67
24"	24"	4.00	CFM	720			1080			1440			1800			2160			2520		
			NC	<20			20			29			36			41			46		
			Throw	12	17	35	17	26	52	23	35	61	29	43	68	35	52	75	41	57	81

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) x 1.2, NC = NC (above) +2