

MODEL SEG-5M/-5MA - Supply Performance Data

1/8" Bars on 1/2" Centers - 0 Degree Deflection

Nominal Size		Nom Duct Area, ft ²	Core Vel, fpm	200						300						400						500						600						700					
W Width	H Height			Ps	0.00		0.01		0.02		0.02		0.04		0.05		0.05		0.05		0.05		0.05		0.05		0.05		0.05		0.05		0.05		0.05				
6"	6"	0.25	CFM	30		50		60		80		90		110																									
			NC	<20		<20		<20		<20		<20		20																									
			Throw	2	6	9	6	8	12	7	9	13	8	10	15	9	11	15	10	12	17																		
8"	8"	0.44	CFM	60		90		130		160		190		220																									
			NC	<20		<20		<20		<20		<20		23																									
			Throw	3	8	13	8	11	15	11	13	19	12	15	21	13	16	22	14	17	24																		
10"	8"	0.56	CFM	80		120		160		210		250		290																									
			NC	<20		<20		<20		<20		20		25																									
			Throw	4	9	15	9	13	18	12	15	21	14	17	24	15	18	26	16	20	28																		
10"	10"	0.69	CFM	110		160		210		270		320		370																									
			NC	<20		<20		<20		<20		21		26																									
			Throw	5	11	17	11	15	21	14	17	24	15	19	27	17	21	29	18	22	31																		
12"	12"	1.00	CFM	160		240		320		400		480		560																									
			NC	<20		<20		<20		<20		23		27																									
			Throw	6	13	21	13	18	25	17	21	29	19	23	33	21	25	36	22	27	38																		
14"	14"	1.36	CFM	230		340		450		560		680		790																									
			NC	<20		<20		<20		<20		24		29																									
			Throw	7	16	25	16	21	30	20	24	35	22	27	38	24	30	42	26	32	46																		
18"	14"	1.75	CFM	300		440		590		740		890		1040																									
			NC	<20		<20		<20		20		25		30																									
			Throw	8	18	28	18	24	34	23	28	40	26	31	44	28	34	49	30	37	52																		
18"	18"	2.25	CFM	390		580		780		970		1170		1360																									
			NC	<20		<20		<20		21		27		31																									
			Throw	9	21	32	21	28	39	26	32	45	29	36	51	32	39	56	35	42	60																		
20"	20"	2.78	CFM	490		730		980		1220		1460		1710																									
			NC	<20		<20		<20		22		28		32																									
			Throw	11	23	36	23	31	44	29	36	51	33	40	57	36	44	62	39	48	67																		
24"	24"	4.00	CFM	720		1080		1440		1800		2160		2520																									
			NC	<20		<20		<20		24		29		34																									
			Throw	13	28	44	28	38	53	36	44	62	40	49	69	44	53	76	47	58	82																		
32"	32"	7.11	CFM	1310		1970		2630		3280		3940		4600																									
			NC	<20		<20		20		26		32		37																									
			Throw	17	38	59	38	51	72	48	59	83	54	66	93	59	72	102	64	78	110																		

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 15 degree blade deflection, increase static pressure by x 1.23, NC + 3



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MODELS SEG-5M/-5MA - Return Performance Data

1/8" bars on 1/2" centers / 0 Degree Deflection

Nominal Size		Nom. Duct Area, sq. ft.	Core Vel Ps	300	400	500	600	700	800
W Width	H Height								
6"	6"	0.25	CFM	50	60	80	90	110	130
			NC	<20	<20	<20	<20	20	24
8"	8"	0.44	CFM	90	130	160	190	220	250
			NC	<20	<20	<20	<20	23	27
12"	6"	0.50	CFM	110	140	180	210	250	280
			NC	<20	<20	<20	<20	24	28
10"	10"	0.69	CFM	160	210	270	320	370	430
			NC	<20	<20	<20	21	26	30
18"	6"	0.75	CFM	170	220	280	330	390	440
			NC	<20	<20	<20	21	26	30
12"	12"	1.00	CFM	240	320	400	480	560	640
			NC	<20	<20	<20	23	27	32
14"	14"	1.36	CFM	340	450	560	680	790	900
			NC	<20	<20	<20	24	29	33
18"	12"	1.50	CFM	380	500	630	750	880	1000
			NC	<20	<20	<20	25	29	33
24"	10"	1.67	CFM	410	550	690	830	970	1110
			NC	<20	<20	20	25	30	34
24"	12"	2.00	CFM	510	680	850	1020	1190	1360
			NC	<20	<20	21	26	31	35
18"	18"	2.25	CFM	580	780	970	1170	1360	1560
			NC	<20	<20	21	27	31	35
24"	24"	4.00	CFM	1080	1440	1800	2160	2520	2880
			NC	<20	<20	24	29	34	38
30"	30"	6.25	CFM	1720	2300	2870	3440	4020	4590
			NC	<20	<20	26	31	36	40
48"	24"	8.00	CFM	2220	2950	3690	4430	5170	5910
			NC	<20	20	27	32	37	41
38"	38"	10.03	CFM	2810	3750	4690	5630	6570	7500
			NC	<20	21	28	33	38	42
48"	36"	12.00	CFM	3380	4510	5640	6770	7900	9030
			NC	<20	22	29	34	39	43
48"	42"	14.00	CFM	3970	5290	6610	7940	9260	10580
			NC	<20	23	29	35	40	44
48"	48"	16.00	CFM	4550	6070	7590	9110	10620	12140
			NC	<20	23	30	36	40	44

-Data determined in accordance with ANSI/ASHRAE Standard 70-91

-For 15 degree blade deflection, increase static pressure x 1.23, NC + 3

-NC noise criteria based on room attenuation of 10 dB, re:10-12 watts



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MODEL SEG-5MA3 - Supply Performance Data

3/16 Bars on 1/2" Centers - 0 Degree Deflection

Nominal Size		Nom Duct Area, ft2	Core Vel, fpm	200	300	400	500	600	700
W	H			Ps	0.01	0.01	0.02	0.03	0.05
Width	Height								
6"	6"	0.25	CFM	30	50	60	80	90	110
			NC	<20	<20	<20	<20	<20	20
			Throw	2 6 9	6 8 12	7 9 13	8 10 15	9 11 15	10 12 17
8"	8"	0.44	CFM	60	90	130	160	190	220
			NC	<20	<20	<20	<20	<20	23
			Throw	3 8 13	8 11 15	11 13 19	12 15 21	13 16 22	14 17 24
10"	8"	0.56	CFM	80	120	160	210	250	290
			NC	<20	<20	<20	<20	20	25
			Throw	4 9 15	9 13 18	12 15 21	14 17 24	15 18 26	16 20 28
10"	10"	0.69	CFM	110	160	210	270	320	370
			NC	<20	<20	<20	<20	21	26
			Throw	5 11 17	11 15 21	14 17 24	15 19 27	17 21 29	18 22 31
12"	12"	1.00	CFM	160	240	320	400	480	560
			NC	<20	<20	<20	<20	23	27
			Throw	6 13 21	13 18 25	17 21 29	19 23 33	21 25 36	22 27 38
14"	14"	1.36	CFM	230	340	450	560	680	790
			NC	<20	<20	<20	<20	24	29
			Throw	7 16 25	16 21 30	20 24 35	22 27 38	24 30 42	26 32 46
18"	14"	1.75	CFM	300	440	590	740	890	1040
			NC	<20	<20	<20	20	25	30
			Throw	8 18 28	18 24 34	23 28 40	26 31 44	28 34 49	30 37 52
18"	18"	2.25	CFM	390	580	780	970	1170	1360
			NC	<20	<20	<20	21	27	31
			Throw	9 21 32	21 28 39	26 32 45	29 36 51	32 39 56	35 42 60
20"	20"	2.78	CFM	490	730	980	1220	1460	1710
			NC	<20	<20	<20	22	28	32
			Throw	11 23 36	23 31 44	29 36 51	33 40 57	36 44 62	39 48 67
24"	24"	4.00	CFM	720	1080	1440	1800	2160	2520
			NC	<20	<20	<20	24	29	34
			Throw	13 28 44	28 38 53	36 44 62	40 49 69	44 53 76	47 58 82
32"	32"	7.11	CFM	1310	1970	2630	3280	3940	4600
			NC	<20	<20	20	26	32	37
			Throw	17 38 59	38 51 72	48 59 83	54 66 93	59 72 102	64 78 110

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 15 degree blade deflection, increase static pressure by x 1.23, NC + 3



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Nominal Size		Nom	Core	Core Vel	300	400	500	600	700	800
W	H	Duct	Area	Ps	-0.01	-0.03	-0.04	-0.06	-0.08	-0.11
Width	Height	ft2	ft2							
6	6	0.25	0.16	CFM	50	60	80	90	110	130
				NC	<20	<20	<20	<20	20	24
8	8	0.44	0.32	CFM	90	130	160	190	220	250
				NC	<20	<20	<20	<20	23	27
12	6	0.50	0.35	CFM	110	140	180	210	250	280
				NC	<20	<20	<20	<20	24	28
10	10	0.69	0.53	CFM	160	210	270	320	370	430
				NC	<20	<20	<20	21	26	30
18	6	0.75	0.55	CFM	170	220	280	330	390	440
				NC	<20	<20	<20	21	26	30
12	12	1.00	0.80	CFM	240	320	400	480	560	640
				NC	<20	<20	<20	23	27	32
14	14	1.36	1.13	CFM	340	450	560	680	790	900
				NC	<20	<20	<20	24	29	33
18	12	1.50	1.25	CFM	380	500	630	750	880	1000
				NC	<20	<20	<20	25	29	33
24	10	1.67	1.38	CFM	410	550	690	830	970	1110
				NC	<20	<20	20	25	30	34
24	12	2.00	1.70	CFM	510	680	850	1020	1190	1360
				NC	<20	<20	21	26	31	35
18	18	2.25	1.95	CFM	580	780	970	1170	1360	1560
				NC	<20	<20	21	27	31	35
24	24	4.00	3.59	CFM	1080	1440	1800	2160	2520	2880
				NC	<20	<20	24	29	34	38
30	30	6.25	5.74	CFM	1720	2300	2870	3440	4020	4590
				NC	<20	<20	26	31	36	40
48	24	8.00	7.39	CFM	2220	2950	3690	4430	5170	5910
				NC	<20	20	27	32	37	41
38	38	10.03	9.38	CFM	2810	3750	4690	5630	6570	7500
				NC	<20	21	28	33	38	42
48	36	12.00	11.28	CFM	3380	4510	5640	6770	7900	9030
				NC	<20	22	29	34	39	43
48	42	14.00	13.23	CFM	3970	5290	6610	7940	9260	10580
				NC	<20	23	29	35	40	44
48	48	16.00	15.18	CFM	4550	6070	7590	9110	10620	12140
				NC	<20	23	30	36	40	44

-Data determined in accordance with ANSI/ASHRAE Standard 70-91

-For 15 degree blade deflection, increase static pressure x 1.23, NC + 3

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