

Model SEG-5, 0 Degree Supply Performance Data

Duct Size		Nom Duct	Core Area	Core Vel	300	400	500	600	700	800	900	1000	1200
Nom	Nom			Ps	0.01	0.01	0.02	0.03	0.04	0.06	0.07	0.09	0.13
6"	6"	0.25	0.16	CFM	50	60	80	90	110	130	140	160	190
				NC	<20	<20	<20	<20	21	25	29	32	38
				Throw	5 8 14	6 10 15	9 13 18	10 13 19	12 15 21	13 16 23	14 17 23	14 18 25	16 19 27
				CFM	90	130	160	190	220	250	280	320	380
8"	8"	0.44	0.32	NC	<20	<20	<20	20	24	28	32	35	41
				Throw	7 10 19	10 15 23	12 18 25	14 19 27	16 21 29	18 22 31	19 23 33	20 25 35	22 27 39
				CFM	120	160	210	250	290	330	370	410	490
				NC	<20	<20	<20	21	25	30	33	36	42
10"	8"	0.56	0.41	Throw	8 12 22	11 16 25	14 20 29	16 22 31	19 24 34	21 25 36	22 27 38	23 28 40	25 31 44
				CFM	240	320	400	480	560	640	720	800	960
				NC	<20	<20	<20	24	28	32	36	39	45
				Throw	11 17 31	15 23 35	19 28 40	23 31 43	26 33 47	29 35 50	31 38 53	32 40 56	35 43 61
12"	12"	1.00	0.80	CFM	330	440	550	660	770	880	990	1100	1320
				NC	<20	<20	20	25	30	34	37	41	46
				Throw	13 20 36	18 27 42	22 33 46	27 36 51	31 39 55	34 42 59	36 44 62	38 46 66	42 51 72
				CFM	450	600	760	910	1060	1210	1360	1510	1810
16"	16"	1.78	1.51	NC	<20	<20	21	26	31	35	39	42	47
				Throw	15 23 42	21 31 48	26 39 55	31 42 60	36 46 64	40 49 69	42 52 73	44 54 77	49 60 84
				CFM	580	770	960	1150	1340	1540	1730	1920	2300
				NC	<20	<20	22	28	32	36	40	43	49
20"	16"	2.22	1.92	Throw	18 26 48	23 35 55	29 43 61	35 47 67	41 51 72	45 55 78	48 58 82	50 61 87	55 67 95
				CFM	730	980	1220	1460	1710	1950	2200	2440	2930
				NC	<20	<20	23	29	33	37	41	44	50
				Throw	20 30 53	26 40 62	33 49 69	39 53 76	46 58 82	50 62 87	54 66 93	56 69 98	62 76 107
22"	22"	3.36	2.99	CFM	900	1200	1500	1790	2090	2390	2690	2990	3590
				NC	<20	<20	24	29	34	38	42	45	50
				Throw	22 33 59	29 44 69	37 54 77	44 59 84	51 64 91	56 68 97	59 73 103	63 77 108	68 84 119
				CFM	1080	1440	1800	2160	2520	2880	3230	3590	4310
24"	24"	4.00	3.59	NC	<20	<20	25	30	35	39	43	46	51
				Throw	24 36 65	32 48 75	40 59 84	48 65 92	56 70 99	61 75 106	65 80 113	68 84 119	75 92 130
				CFM	1200	1600	2000	2400	2800	3200	3600	4000	4800
				NC	<20	<20	25	31	35	39	43	46	52
28"	24"	4.67	4.23	Throw	25 38 69	34 51 79	42 63 89	51 69 97	59 74 105	65 79 112	69 84 119	72 89 125	79 97 137
				CFM	1270	1690	2110	2540	2960	3380	3800	4230	5070
				NC	<20	<20	25	31	36	40	43	46	52
				Throw	26 39 71	35 52 81	43 64 91	52 71 100	61 76 108	66 81 115	70 86 122	74 91 129	81 100 141
30"	26"	5.42	4.94	CFM	1480	1980	2470	2960	3460	3950	4450	4940	5930
				NC	<20	<20	26	32	36	40	44	47	53
				Throw	28 42 76	38 56 88	47 70 98	56 76 108	66 82 116	72 88 124	76 93 132	80 98 139	88 108 152
				CFM	1600	2140	2670	3200	3740	4270	4810	5340	6410
30"	28"	5.83	5.34	NC	<20	20	26	32	37	41	44	47	53
				Throw	29 44 79	39 59 92	49 72 102	58 79 112	68 86 121	75 91 129	79 97 137	84 102 145	92 112 159
				CFM	1840	2460	3070	3680	4300	4910	5530	6140	7370
				NC	<20	20	27	33	37	41	45	48	54
32"	30"	6.67	6.14	Throw	31 47 85	42 63 98	52 78 110	63 85 120	73 92 130	80 98 139	85 104 147	90 110 155	98 120 170
				CFM	2050	2730	3410	4100	4780	5460	6140	6830	8190
				NC	<20	21	28	33	38	42	45	49	54
				Throw	33 50 90	44 66 103	55 82 116	66 90 127	77 97 137	84 103 146	90 110 155	94 116 164	103 127 179
40"	32"	8.89	8.27	CFM	2480	3310	4140	4960	5790	6620	7450	8270	9930
				NC	<20	22	28	34	39	43	46	49	55
				Throw	36 55 99	49 73 114	61 90 127	73 99 139	85 107 151	93 114 161	99 121 171	104 127 180	114 140 197
				CFM	2950	3930	4920	5900	6880	7870	8850	9830	11800
42"	36"	10.50	9.83	NC	<20	22	29	35	39	43	47	50	56
				Throw	40 60 108	53 79 124	66 98 139	79 108 152	93 116 164	101 124 176	108 132 186	113 139 196	124 152 215
				CFM	3130	4170	5210	6260	7300	8340	9380	10430	12510
				NC	<20	23	29	35	40	44	47	50	56
48"	48"	16.00	15.18	Throw	41 61 111	54 82 128	68 101 143	82 111 157	95 120 169	104 128 181	111 136 192	117 143 202	128 157 221
				CFM	4550	6070	7590	9110	10620	12140	13660	15180	18210
				NC	<20	24	31	37	41	45	49	52	58
				Throw	49 74 134	66 99 154	82 122 172	99 134 189	115 144 204	126 154 218	134 164 231	141 172 244	154 189 267
72"	48"	24.00	22.97	CFM	6890	9190	11480	13780	16080	18380	20670	22970	27560
				NC	<20	26	33	38	43	47	51	54	59
				Throw	61 91 164	81 121 190	101 150 212	121 164 232	141 178 251	155 190 268	164 201 285	173 212 300	190 232 329
				CFM	9230	12300	15380	18460	21530	24610	27680	30760	36910
96"	48"	32.00	30.76	NC	<20	27	34	40	44	48	52	55	61
				Throw	70 105 190	94 140 220	117 174 246	140 190 269	164 205 291	179 220 311	190 233 329	200 246 347	220 269 380
				CFM	9230	12300	15380	18460	21530	24610	27680	30760	36910
				NC	<20	27	34	40	44	48	52	55	61

- Data Determined in accordance with ANSI/ASHRAE Standard 70-91.
- NC noise criteria based on a room attenuation of 10 dB from sound power levels, re: 10-12 watts.
- Ps is static pressure, inches of water.
- Throw values shown are in feet, to terminal velocities Vt = 150, 100, & 50 fpm, respectively.
- Cor Vel is velocity in feet per minute.
- For 15 degree upward deflection (Model GHD15), use throw ratings as shown, increase Ps x 1.15, add +NC2
- For other sizes not shown, use equivalent core area.



KEES INCORPORATED
400 S. Industrial Dr.
Ekhart Lake, WI 53020

Phone: (920) 876-3391
Fax: (920) 876-3065
Website: www.kees.com

MODEL SEG-5, 0 Degree Return Performance Data

Nominal Size		Nom Duct ft2	Core Area ft2	Core Vel, fpm	300	400	500	600	700	800	900	1000	1200
W Width	H Height			Ps	-0.01	-0.02	-0.03	-0.04	-0.06	-0.08	-0.10	-0.12	-0.18
6	6	0.25	0.16	CFM	50	60	80	90	110	130	140	160	190
				NC	<20	<20	<20	<20	<20	23	26	29	34
8	8	0.44	0.32	CFM	90	130	160	190	220	250	280	320	380
				NC	<20	<20	<20	<20	22	26	29	32	37
12	6	0.50	0.35	CFM	110	140	180	210	250	280	320	350	430
				NC	<20	<20	<20	<20	22	26	30	33	38
10	10	0.69	0.53	CFM	160	210	270	320	370	430	480	530	640
				NC	<20	<20	<20	20	24	28	31	34	40
18	6	0.75	0.55	CFM	170	220	280	330	390	440	500	550	660
				NC	<20	<20	<20	20	24	28	31	35	40
12	12	1.00	0.80	CFM	240	320	400	480	560	640	720	800	960
				NC	<20	<20	<20	21	26	30	33	36	41
14	14	1.36	1.13	CFM	340	450	560	680	790	900	1020	1130	1350
				NC	<20	<20	<20	23	27	31	35	38	43
18	12	1.50	1.25	CFM	380	500	630	750	880	1000	1130	1250	1500
				NC	<20	<20	<20	23	28	32	35	38	43
24	10	1.67	1.38	CFM	410	550	690	830	970	1110	1240	1380	1660
				NC	<20	<20	<20	24	28	32	35	39	44
24	12	2.00	1.70	CFM	510	680	850	1020	1190	1360	1530	1700	2040
				NC	<20	<20	<20	25	29	33	36	39	45
30	12	2.50	2.15	CFM	640	860	1070	1290	1500	1720	1930	2150	2580
				NC	<20	<20	20	26	30	34	37	40	46
24	24	4.00	3.59	CFM	1080	1440	1800	2160	2520	2880	3230	3590	4310
				NC	<20	<20	23	28	32	36	40	43	48
30	30	6.25	5.74	CFM	1720	2300	2870	3440	4020	4590	5170	5740	6890
				NC	<20	<20	25	30	34	38	42	45	50
48	24	8.00	7.39	CFM	2220	2950	3690	4430	5170	5910	6650	7390	8860
				NC	<20	<20	26	31	35	39	43	46	51
38	38	10.03	9.38	CFM	2810	3750	4690	5630	6570	7500	8440	9380	11250
				NC	<20	20	27	32	37	40	44	47	52
48	36	12.00	11.28	CFM	3380	4510	5640	6770	7900	9030	10150	11280	13540
				NC	<20	21	28	33	37	41	45	48	53
48	42	14.00	13.23	CFM	3970	5290	6610	7940	9260	10580	11910	13230	15880
				NC	<20	22	28	34	38	42	45	48	54
48	48	16.00	15.18	CFM	4550	6070	7590	9110	10620	12140	13660	15180	18210
				NC	<20	22	29	34	39	42	46	49	54

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

-Ps is static pressure, inches of water



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 400 S. Industrial Dr.
 Elkhart Lake, WI 53020

Phone: (920) 876-3391
Fax: (920) 876-3065
Website: www.kees.com

Model SEG-5, 40 Degree Return Performance Data

Nominal Size		Nom Duct ft ²	Core Area ft ²	Core Vel, fpm	200	300	400	500	600	700	800
Width	Height			Ps	-0.03	-0.06	-0.11	-0.18	-0.26	-0.35	-0.46
6"	6"	0.25	0.16	CFM	30	50	60	80	90	110	130
				NC	<20	<20	<20	20	25	30	34
8"	8"	0.44	0.32	CFM	60	90	130	160	190	220	250
				NC	<20	<20	<20	23	28	33	37
12"	6"	0.50	0.35	CFM	70	110	140	180	210	250	280
				NC	<20	<20	<20	23	29	34	38
10"	10"	0.69	0.53	CFM	110	160	210	270	320	370	430
				NC	<20	<20	<20	25	31	35	39
18"	6"	0.75	0.55	CFM	110	170	220	280	330	390	440
				NC	<20	<20	<20	25	31	35	40
12"	12"	1.00	0.80	CFM	160	240	320	400	480	560	640
				NC	<20	<20	20	27	32	37	41
14"	14"	1.36	1.13	CFM	230	340	450	560	680	790	900
				NC	<20	<20	22	28	34	39	43
18"	12"	1.50	1.25	CFM	250	380	500	630	750	880	1000
				NC	<20	<20	22	29	34	39	43
24"	10"	1.67	1.38	CFM	280	410	550	690	830	970	1110
				NC	<20	<20	22	29	35	39	43
24"	12"	2.00	1.70	CFM	340	510	680	850	1020	1190	1360
				NC	<20	<20	23	30	36	40	44
30"	12"	2.50	2.15	CFM	430	640	860	1070	1290	1500	1720
				NC	<20	<20	24	31	37	41	45
24"	24"	4.00	3.59	CFM	720	1080	1440	1800	2160	2520	2880
				NC	<20	<20	27	33	39	44	48
30"	30"	6.25	5.74	CFM	1150	1720	2300	2870	3440	4020	4590
				NC	<20	20	29	35	41	46	50
48"	24"	8.00	7.39	CFM	1480	2220	2950	3690	4430	5170	5910
				NC	<20	21	30	37	42	47	51
38"	38"	10.03	9.38	CFM	1880	2810	3750	4690	5630	6570	7500
				NC	<20	22	31	38	43	48	52
48"	36"	12.00	11.28	CFM	2260	3380	4510	5640	6770	7900	9030
				NC	<20	23	32	38	44	49	53
48"	42"	14.00	13.23	CFM	2650	3970	5290	6610	7940	9260	10580
				NC	<20	24	32	39	45	49	53
48"	48"	16.00	15.18	CFM	3040	4550	6070	7590	9110	10620	12140
				NC	<20	24	33	40	45	50	54

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

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