

DL / DL-SV / S-DL / S-DL-SV / 15° UP

Min. Duct Area sq. ft.	Listed Size, Inches	Duct Velocity fpm	300	400	500	600	700	800	900	1000
		Vel. Press, in wg.	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
0.33	12 X 4	cfm	100	123	166	200	233	266	300	333
		NC (Noise Criteria)	-	-	-	15	19	31	37	41
		Total Pressure, in. wg.	0.04	0.06	0.10	0.14	0.19	0.26	0.32	0.40
		Throw, ft.	10-13-20	13-16-23	15-18-26	16-19-29	18-21-31	19-22-33	20-23-36	21-25-38
		cfm	150	200	250	300	350	400	450	500
0.50	18 X 4	cfm	150	200	250	300	350	400	450	500
		NC (Noise Criteria)	-	-	-	19	26	34	37	43
		Total Pressure, in. wg.	0.03	0.05	0.07	0.11	0.15	0.20	0.25	0.31
		Throw, ft.	14-16-23	16-19-27	18-21-31	19-23-34	21-25-36	22-27-39	24-29-41	25-30-43
		cfm	200	266	333	400	466	535	600	665
0.66	24 X 4	cfm	200	266	333	400	466	535	600	665
		NC (Noise Criteria)	-	-	10	20	27	35	38	44
		Total Pressure, in. wg.	0.03	0.05	0.10	0.11	0.15	0.20	0.25	0.31
		Throw, ft.	16-19-27	18-22-32	20-24-26	23-27-39	24-29-42	27-31-45	28-33-49	29-35-51
		cfm	250	333	415	500	583	665	750	830
0.83	30 X 4	cfm	250	333	415	500	583	665	750	830
		NC (Noise Criteria)	-	-	12	22	28	35	39	46
		Total Pressure, in. wg.	0.03	0.05	0.07	0.11	0.15	0.20	0.25	0.33
		Throw, ft.	18-21-31	20-24-35	23-28-40	25-30-44	28-33-47	29-35-51	31-37-54	32-39-56
		cfm	300	400	500	600	700	800	900	1000
1.00	36 X 4	cfm	300	400	500	600	700	800	900	1000
		NC (Noise Criteria)	-	-	13	23	30	37	41	47
		Total Pressure, in. wg.	0.03	0.05	0.07	0.11	0.15	0.20	0.25	0.31
		Throw, ft.	19-23-33	22-26-38	25-30-43	27-33-48	29-35-51	31-38-55	33-40-58	35-42-62
		cfm	350	465	583	700	815	933	1050	1160
1.16	42 X 4	cfm	350	465	583	700	815	933	1050	1160
		NC (Noise Criteria)	-	-	14	25	32	38	42	49
		Total Pressure, in. wg.	0.03	0.05	0.07	0.11	0.15	0.20	0.25	0.31
		Throw, ft.	21-25-36	24-28-42	26-32-47	29-35-51	32-38-58	34-41-60	36-43-64	38-46-67
		cfm	400	533	665	800	933	1065	1200	1330
1.33	48 X 4	cfm	400	533	665	800	933	1065	1200	1330
		NC (Noise Criteria)	-	-	15	25	32	38	42	50
		Total Pressure, in. wg.	0.03	0.05	0.07	0.11	0.15	0.20	0.25	0.31
		Throw, ft.	22-27-39	26-31-45	28-35-50	32-39-55	34-42-60	36-45-64	38-47-66	40-50-71
		cfm	500	665	833	1000	1160	1330	1500	1660
1.66	60 X 4	cfm	500	665	833	1000	1160	1330	1500	1660
		NC (Noise Criteria)	-	-	16	26	35	39	43	50
		Total Pressure, in. wg.	0.03	0.05	0.07	0.11	0.15	0.20	0.25	0.31
		Throw, ft.	26-30-43	29-34-50	33-39-56	36-43-61	39-45-66	41-49-71	43-52-75	47-55-80
		cfm	129	172	215	258	301	344	387	430
0.43	9 X 6	cfm	129	172	215	258	301	344	387	430
		NC (Noise Criteria)	<10	<10	17	23	29	34	43	42
		Total Pressure, in. wg.	0.05	0.08	0.13	0.18	0.25	0.32	0.41	0.51
		Throw, ft.	5-6-16	7-11-22	9-14-26	11-16-29	13-19-31	15-22-33	16-25-35	18-26-37
		cfm	250	333	416	500	583	666	749	833
0.83	18 X 6	cfm	250	333	416	500	583	666	749	833
		NC (Noise Criteria)	<10	11	19	25	31	35	40	46
		Total Pressure, in. wg.	0.05	0.08	0.13	0.18	0.25	0.32	0.41	0.51
		Throw, ft.	11-16-28	14-21-33	18-26-37	21-28-40	25-31-43	27-33-46	28-35-49	30-37-52
		cfm	411	548	685	821	958	1095	1232	1369
1.37	30 X 6	cfm	411	548	685	821	958	1095	1232	1369
		NC (Noise Criteria)	<10	10	18	24	29	34	38	42
		Total Pressure, in. wg.	0.05	0.08	0.13	0.18	0.25	0.32	0.41	0.51
		Throw, ft.	17-26-37	23-30-42	27-33-47	30-37-52	32-39-56	34-42-60	37-45-63	38-47-67
		cfm	813	1084	1355	1626	1897	2168	2439	2710
2.71	60 X 6	cfm	813	1084	1355	1626	1897	2168	2439	2710
		NC (Noise Criteria)	<10	16	23	30	35	40	44	48
		Total Pressure, in. wg.	0.05	0.08	0.13	0.18	0.25	0.32	0.41	0.51
		Throw, ft.	30-36-51	34-42-59	38-47-66	42-51-73	45-55-78	48-59-84	51-63-89	54-66-94
		cfm	200	266	333	400	465	533	600	665
0.66	12 X 8	cfm	200	266	333	400	465	533	600	665
		NC (Noise Criteria)	-	-	-	19	27	33	40	45
		Total Pressure, in. wg.	0.04	0.06	0.10	0.14	0.20	0.26	0.32	0.40
		Throw, ft.	12-19-28	16-22-32	19-24-36	22-26-39	23-28-42	25-36-45	28-32-49	29-35-50
		cfm	300	400	500	600	700	800	900	1000
1.00	18 X 8	cfm	300	400	500	600	700	800	900	1000
		NC (Noise Criteria)	-	-	-	19	26	34	37	43
		Total Pressure, in. wg.	0.04	0.06	0.10	0.14	0.20	0.26	0.32	0.40
		Throw, ft.	18-23-33	21-26-38	24-29-42	27-32-47	29-34-50	31-37-54	33-39-58	34-41-60
		cfm	400	533	665	800	933	1065	1200	1330
1.33	24 X 8	cfm	400	533	665	800	933	1065	1200	1330
		NC (Noise Criteria)	-	-	13	22	30	37	43	48
		Total Pressure, in. wg.	0.04	0.06	0.10	0.14	0.20	0.26	0.32	0.40
		Throw, ft.	21-26-39	25-30-44	27-34-49	31-37-54	33-40-59	35-43-63	38-46-66	40-49-70
		cfm	500	665	833	1000	1165	1333	1500	1665
1.66	30 X 8	cfm	500	665	833	1000	1165	1333	1500	1665
		NC (Noise Criteria)	-	-	15	25	32	38	44	49
		Total Pressure, in. wg.	0.04	0.06	0.10	0.14	0.20	0.26	0.32	0.40
		Throw, ft.	24-29-43	28-34-50	31-38-55	33-42-60	36-45-66	38-49-70	41-52-74	43-55-79

All performance data reported is without damper or volume extractor

DL / DL-SV / S-DL / S-DL-SV / 15° UP CONTINUED

All performance data reported is without damper or volume extractor

Min. Duct Area sq. ft.	Listed Size, Inches	Duct Velocity fpm	300	400	500	600	700	800	900	1000
		Vel. Press, in wg.	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
2.00	36 X 8	cfm	600	800	1000	1200	1400	1600	1800	2000
		NC (Noise Criteria)	-	-	16	26	33	40	45	50
		Total Pressure, in. wg.	0.04	0.07	0.11	0.15	0.22	0.28	0.35	0.44
		Throw, ft.	27-32-47	31-37-54	35-41-60	38-45-66	41-49-71	43-52-76	46-55-81	48-59-85
2.33	42 X 8	cfm	700	933	1165	1400	1633	1865	2100	2335
		NC (Noise Criteria)	-	-	16	27	34	41	46	51
		Total Pressure, in. wg.	0.04	0.07	0.11	0.15	0.22	0.28	0.35	0.44
		Throw, ft.	28-34-50	32-39-58	36-44-64	39-48-70	43-52-76	46-56-82	48-59-87	50-62-92
2.66	48 X 8	cfm	400	533	665	800	933	1065	1200	1330
		NC (Noise Criteria)	-	-	17	27	35	42	47	51
		Total Pressure, in. wg.	0.04	0.07	0.11	0.15	0.22	0.28	0.35	0.44
		Throw, ft.	3-37-55	35-43-63	40-47-70	43-50-77	47-57-84	50-60-90	53-64-95	56-68-100
3.33	60 X 8	cfm	1000	1335	1665	2000	2335	2665	3000	3335
		NC (Noise Criteria)	-	-	18	28	35	42	48	52
		Total Pressure, in. wg.	0.04	0.07	0.11	0.15	0.22	0.28	0.35	0.44
		Throw, ft.	32-41-61	38-47-70	42-53-79	46-59-85	50-63-92	54-67-98	57-72-105	60-75-111
1.46	20 X 10	cfm	438	584	730	875	1021	1167	1313	1459
		NC (Noise Criteria)	<10	13	20	26	31	36	40	44
		Total Pressure, in. wg.	0.03	0.05	0.09	0.12	0.17	0.22	0.28	0.34
		Throw, ft.	18-27-38	25-31-44	28-34-49	31-38-53	33-41-58	36-44-62	38-46-65	40-49-69
3.58	50 X 10	cfm	1074	1433	1791	2149	2507	2865	3223	3582
		NC (Noise Criteria)	<10	16	23	29	35	40	44	48
		Total Pressure, in. wg.	0.03	0.05	0.09	0.12	0.17	0.22	0.28	0.34
		Throw, ft.	34-42-59	39-48-68	44-54-76	48-59-84	52-64-90	56-68-96	59-72-102	62-76-108
5.00	70 X 10	cfm	1499	1999	2498	2998	3498	3997	4497	4996
		NC (Noise Criteria)	<10	18	25	31	36	41	45	49
		Total Pressure, in. wg.	0.03	0.05	0.09	0.12	0.17	0.22	0.28	0.34
		Throw, ft.	40-49-70	47-57-81	52-64-90	57-70-99	62-75-107	66-81-114	70-85-121	74-90-127
1.75	20 X 12	cfm	524	698	873	1047	1222	1396	1571	1746
		NC (Noise Criteria)	<10	13	20	27	32	37	41	45
		Total Pressure, in. wg.	0.03	0.05	0.08	0.11	0.16	0.20	0.26	0.32
		Throw, ft.	22-29-41	27-34-48	31-38-53	34-41-58	36-45-63	39-48-67	41-50-71	43-53-75
3.44	40 X 12	cfm	1031	1375	1719	2063	2407	2751	3094	3438
		NC (Noise Criteria)	-	-	17	26	33	39	44	49
		Total Pressure, in. wg.	0.03	0.05	0.08	0.11	0.16	0.20	0.26	0.32
		Throw, ft.	33-41-58	39-47-67	43-53-75	47-58-82	51-62-88	55-67-94	58-71-100	61-75-106
5.98	70 X 12	cfm	1793	2391	2989	3586	4184	4782	5380	5977
		NC (Noise Criteria)	-	-	20	28	35	41	47	52
		Total Pressure, in. wg.	0.03	0.05	0.08	0.11	0.16	0.20	0.26	0.32
		Throw, ft.	44-54-76	51-62-88	57-70-98	62-76-108	67-82-117	72-88-125	76-93-132	80-98-139
1.65	15 X 15	cfm	494	659	824	989	1154	1318	1483	1648
		NC (Noise Criteria)	-	-	14	23	30	36	41	46
		Total Pressure, in. wg.	0.02	0.04	0.07	0.10	0.13	0.17	0.22	0.27
		Throw, ft.	19-28-40	25-33-46	30-37-52	33-40-57	35-43-61	38-46-65	40-49-69	42-52-73
5.34	50 X 15	cfm	1602	2136	2670	3204	3738	4271	4805	5339
		NC (Noise Criteria)	-	-	19	28	35	41	47	51
		Total Pressure, in. wg.	0.02	0.04	0.07	0.10	0.13	0.17	0.22	0.27
		Throw, ft.	42-51-72	48-59-83	54-66-93	59-72-102	64-78-110	68-83-118	72-88-125	76-93-132
6.25	60 X 15	cfm	1875	2500	3125	3750	4375	5000	5625	6250
		NC (Noise Criteria)	-	-	19	27	35	41	46	51
		Total Pressure, in. wg.	0.02	0.04	0.06	0.09	0.13	0.16	0.21	0.26
		Throw, ft.	45-55-78	52-64-90	58-71-101	64-78-110	69-84-119	74-90-127	78-96-135	82-101-142
7.45	70 X 15	cfm	2235	2979	3724	4469	5214	5959	6704	7449
		NC (Noise Criteria)	-	-	21	29	36	42	48	53
		Total Pressure, in. wg.	0.02	0.04	0.07	0.10	0.13	0.17	0.22	0.27
		Throw, ft.	49-60-85	57-70-98	63-78-110	70-85-120	75-92-130	80-98-139	85-104-148	90-110-155

- All data is based on tests conducted in accordance with ANSI/ASHRAE Standard 70-2006
- Throw is based on isothermal air, 150, 100 and 50 fpm terminal velocities. See the section, Engineering Guidelines, in this catalog for throw information.
- Velocity Pressures are based on nominal duct velocity
- Listed size is slightly less than the minimum allowed duct dimensions. (see pages I57-I58 for actual duct dimension)
- Each NC value represents the noise criterion that will not be exceeded by the sound pressure in any of the octave bands, 2nd through 7th. Each NC value is based on a room absorption of 10dB, re 10⁻¹² watts.
- Throw is based on a 15° upward deflection. For 0° upward deflection multiply throw values shown by 1.2. For 30° upward deflection multiply throw values shown by 0.8.

VARIABLE AIR VOLUME APPLICATIONS

Deflection	Throw	Total Pressure	NC
0°	1.2	0.8	-4
30°	0.8	1.43	+4

- All Titus supply grilles can be applied to variable air volume systems with excellent results. For detailed selection methods, consult your Titus representative or the Engineering Guidelines section of this catalog.