

CT-481

Effective Area, cm ²	Nominal Duct Width, cm											
29.83	3.81	Total Pressure, Pa	3	8	13	20	29	39	53	66	81	
		l/s per m	19	29	39	48	57	67	77	87	96	
		NC	13	26	34	40	45	50	54	57	57	
		Throw, m Side Wall	0.5 - 1.3 - 2.5	1.3 - 1.8 - 4	1.8 - 2.5 - 4.3	2.3 - 3 - 5	2.5 - 3.8 - 5.5	2.8 - 4 - 5.8	3.3 - 4.3 - 6	3.8 - 4.5 - 6.8	4 - 5 - 7	
45.67	5.08	Total Pressure, Pa	3	6	10	17	24	33	43	54	67	
		l/s per m	29	43	57	73	87	102	116	130	146	
		NC	14	25	33	40	45	49	53	56	56	
		Throw, m Side Wall	1 - 1.5 - 3	1.5 - 2.3 - 4.5	2.3 - 3 - 5.5	2.5 - 4 - 6	3 - 4.5 - 6.8	3.8 - 5.3 - 7	4 - 5.5 - 7.5	4.5 - 5.8 - 8	5 - 6 - 8.5	
61.51	6.35	Total Pressure, Pa	3	6	11	16	24	32	42	53	66	
		l/s per m	40	60	81	101	121	141	161	181	201	
		NC	15	26	34	41	46	50	54	58	57	
		Throw, m Side Wall	1 - 1.8 - 3.8	1.8 - 2.8 - 5.5	2.5 - 3.8 - 6.5	3 - 4.5 - 7	3.8 - 5.5 - 7.5	4.3 - 5.8 - 8.3	5 - 6.5 - 8.8	5.5 - 6.8 - 9.5	5.8 - 7 - 10	
77.35	7.62	Total Pressure, Pa	3	6	10	16	24	32	42	52	65	
		l/s per m	51	77	102	129	155	180	206	231	257	
		NC	15	27	35	42	47	51	55	58	58	
		Throw, m Side Wall	1.3 - 2.3 - 4.3	2.3 - 3 - 6	2.8 - 4.3 - 7	3.3 - 5.3 - 8	4.3 - 6 - 8.8	5 - 6.8 - 9.5	5.5 - 7 - 10	6 - 7.5 - 10.8	6.5 - 8 - 11.3	
93.20	8.89	Total Pressure, Pa	3	6	11	16	23	32	42	53	66	
		l/s per m	63	94	127	158	189	221	252	285	316	
		NC	17	28	36	43	48	52	56	59	59	
		Throw, m Side Wall	1.3 - 2.5 - 4.5	2.5 - 3.3 - 6.8	3 - 4.5 - 8	4 - 5.8 - 8.8	4.5 - 6.8 - 9.8	5.5 - 7.3 - 10.3	6 - 8 - 11.3	7 - 8.5 - 12	7.3 - 8.8 - 12.5	
109.04	10.16	Total Pressure, Pa	3	6	11	17	24	33	43	55	67	
		l/s per m	76	113	152	189	226	265	302	341	378	
		NC	18	29	37	44	49	53	57	60	60	
		Throw, m Side Wall	1.5 - 2.5 - 5.3	2.5 - 4 - 7.5	3.3 - 5.3 - 8.5	4.3 - 6.5 - 9.8	5.3 - 7.5 - 10.8	6 - 8.3 - 11.5	6.8 - 8.5 - 12.3	7.5 - 9.3 - 13	8 - 9.8 - 13.8	
140.72	12.7	Total Pressure, Pa	3	6	10	16	23	32	42	52	65	
		l/s per m	98	146	194	243	291	341	389	437	486	
		NC	18	30	38	44	49	54	58	61	61	
		Throw, m Side Wall	1.5 - 3 - 5.8	3 - 4.3 - 8.5	4 - 5.8 - 9.8	5 - 7.3 - 11	5.8 - 8.5 - 12	6.8 - 9.3 - 13	7.5 - 9.8 - 14	8.5 - 10.3 - 14.8	8.8 - 11 - 15.5	
172.40	15.24	Total Pressure, Pa	3	6	10	16	23	32	42	53	65	
		l/s per m	121	180	240	300	361	421	480	540	601	
		NC	19	30	39	45	50	55	58	62	61	
		Throw, m Side Wall	1.8 - 3.3 - 6.5	3.3 - 5 - 9.5	4.3 - 6.5 - 11	5.5 - 8.3 - 12.3	6.5 - 9.5 - 13.5	7.5 - 10.3 - 14.3	8.5 - 11 - 15.5	9.5 - 11.5 - 16.5	10 - 12.3 - 17.3	

Throw & Sound based on 1.22 meter lengths, throw is iso-thermal

Data Notes : CT Diffuser data

- 1.) All Pressures are in Pascals
- 2.) Throw are given for terminal velocities of .8, .5, and .3 mps.
- 3.) Throw and Sound Values are based on a 1.22 m section, Isothermal. Multipliers for other lengths are shown below.
- 4.) NC values are based on a room absorption of 10 dB, re 10-12 Watts. Corrections for lengths other than 1.22 meters are shown below.
- 5.) When the diffuser is used as a return, increase the NC value by 4. The negative static pressure is 0.8 times the listed total pressure shown.
- 6.) This product has been tested per ASHRAE 70-91, with an ideal inlet plenum. If less than ideal inlets are used, sound levels may be higher.
- 7.) Maximum available width is 61 cm except for frames 5,6 & 15 (which are limited to 30.5 mm). Consult your TITUS representative for details.
- 8.) Dash (-) in space denotes an NC value of less than 10.

NC corrections for various diffuser lengths.

Length, mm	600	1225	1825	2450	3050
Supply	-3	0	+2	+3	+5
Return	0	+3	+5	+6	+8

Throw correction for length (Multiply)

Active Length, mm	600	1225	2450	3050	3650
Throw Corr.	0.72	1	1.5	1.7	1.8

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric • contact factory for availability of sizes •



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CT-540

Effective Area, cm ²	Nominal Duct Width, cm										
28.72	3.81	Total Pressure, Pa	3	6	11	17	25	33	45	56	69
		l/s per m	19	29	39	48	57	67	77	87	96
		NC	6	20	28	34	39	43	48	51	51
		Throw, m	0.5 - 1.3 - 2.5	1.3 - 1.8 - 4	1.8 - 2.5 - 4.3	2.3 - 3 - 5	2.5 - 3.8 - 5.5	3 - 4 - 5.8	3.3 - 4.3 - 6	3.8 - 4.5 - 6.8	4 - 5 - 7
		Side Wall									
49.11	5.08	Total Pressure, Pa	2	5	9	14	20	28	36	46	57
		l/s per m	29	43	57	73	87	102	116	130	146
		NC	7	18	27	34	39	43	47	50	51
		Throw, m	0.5 - 1.5 - 3	1.5 - 2.3 - 4.3	1.8 - 3 - 5.5	2.5 - 3.8 - 6	3 - 4.3 - 6.8	3.3 - 5.3 - 7	4 - 5.5 - 7.5	4.3 - 5.8 - 8	5 - 6 - 8.5
		Side Wall									
69.49	6.35	Total Pressure, Pa	2	5	9	14	20	27	36	45	56
		l/s per m	40	60	80	101	121	141	161	181	201
		NC	8	20	28	35	40	44	48	52	52
		Throw, m	1 - 1.8 - 3.3	1.8 - 2.5 - 5.3	2.3 - 3.3 - 6.5	2.8 - 4.3 - 7	3.3 - 5.3 - 7.5	4 - 5.8 - 8.3	4.5 - 6.5 - 8.8	5.3 - 6.8 - 9.5	5.8 - 7 - 10
		Side Wall									
89.88	7.62	Total Pressure, Pa	2	5	9	14	20	27	35	44	55
		l/s per m	51	77	102	128	155	180	206	231	257
		NC	9	21	29	36	41	45	49	53	53
		Throw, m	1 - 1.8 - 4	1.8 - 3 - 5.8	2.5 - 4 - 7	3.3 - 5 - 8	4 - 5.8 - 8.8	4.5 - 6.8 - 9.5	5.3 - 7 - 10	5.8 - 7.5 - 10.8	6.5 - 8 - 11.3
		Side Wall									
110.26	8.89	Total Pressure, Pa	2	5	9	14	20	27	36	45	56
		l/s per m	63	94	127	158	189	221	252	285	316
		NC	10	22	30	37	42	46	50	54	54
		Throw, m	1 - 2.3 - 4.3	2.3 - 3 - 6.5	2.8 - 4.3 - 8	3.8 - 5.5 - 8.8	4.3 - 6.5 - 9.8	5 - 7.3 - 10.3	5.8 - 8 - 11.3	6.5 - 8.5 - 12	7 - 8.8 - 12.5
		Side Wall									
130.65	10.16	Total Pressure, Pa	2	5	9	14	20	28	36	46	57
		l/s per m	76	113	152	189	226	265	302	341	378
		NC	11	23	31	38	43	48	51	55	55
		Throw, m	1.3 - 2.5 - 4.5	2.5 - 3.8 - 7	3 - 4.5 - 8.5	4 - 5.8 - 9.8	4.5 - 7 - 10.8	5.5 - 8.3 - 11.5	6.5 - 8.5 - 12.3	7 - 9.3 - 13	8 - 9.8 - 13.8
		Side Wall									
171.42	12.7	Total Pressure, Pa	2	5	9	14	20	27	35	45	55
		l/s per m	98	146	194	243	291	341	389	437	486
		NC	12	24	32	38	44	48	52	55	56
		Throw, m	1.3 - 2.8 - 5.3	2.8 - 4 - 8	3.3 - 5.3 - 9.8	4.3 - 6.8 - 11	5.3 - 8 - 12	6 - 9.3 - 13	7 - 9.8 - 14	8 - 10.3 - 14.8	8.8 - 11 - 15.5
		Side Wall									
212.19	15.24	Total Pressure, Pa	2	5	9	14	20	27	35	45	55
		l/s per m	121	180	240	300	361	421	480	540	601
		NC	13	25	33	39	45	49	53	56	57
		Throw, m	1.3 - 3 - 5.8	3 - 4.3 - 8.8	4 - 5.8 - 11	5 - 7.3 - 12.3	5.8 - 8.8 - 13.5	6.8 - 10.3 - 14.3	8 - 11 - 15.5	8.8 - 11.5 - 16.5	9.8 - 12.3 - 17.3
		Side Wall									

Throw & Sound based on 1.22 meter lengths, throw is iso-thermal

Data Notes : CT Diffuser data

- 1.) All Pressures are in Pascals
- 2.) Throw are given for terminal velocities of .8, .5, and .3 mps.
- 3.) Throw and Sound Values are based on a 1.22 m section, Isothermal. Multipliers for other lengths are shown below.
- 4.) NC values are based on a room absorption of 10 dB, re 10-12 Watts. Corrections for lengths other than 1.22 meters are shown below.
- 5.) When the diffuser is used as a return, increase the NC value by 4. The negative static pressure is 0.8 times the listed total pressure shown.
- 6.) This product has been tested per ASHRAE 70-91, with an ideal inlet plenum. If less than ideal inlets are used, sound levels may be higher.
- 7.) Maximum available width is 61 cm except for frames 5,6 & 15 (which are limited to 30.5 mm). Consult your TITUS representative for details.
- 8.) Dash (-) in space denotes an NC value of less than 10.

NC corrections for various diffuser lengths.

Length, mm	600	1225	1825	2450	3050
Supply	-3	0	+2	+3	+5
Return	0	+3	+5	+6	+8

Throw correction for length (Multiply)

Active Length, mm	600	1225	2450	3050	3650
Throw Corr.	0.72	1	1.5	1.7	1.8

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric • contact factory for availability of sizes •



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CT-541

Effective Area, cm ²	Nominal Duct Width, cm										
25.98	3.81	Total Pressure, Pa	3	8	14	21	30	40	54	68	83
		l/s per m	19	29	39	48	57	67	77	87	96
		NC	-	-	33	40	45	50	54	57	57
		Throw, m	0.5 - 1.3 - 2.5	1.3 - 2.3 - 4	1.8 - 2.8 - 4.3	2.3 - 3.3 - 5	2.8 - 3.8 - 5.5	3 - 4 - 5.8	3.8 - 4.3 - 6	3.8 - 4.5 - 6.8	4 - 5 - 7
		Side Wall									
44.53	5.08	Total Pressure, Pa	3	6	11	17	24	34	44	55	69
		l/s per m	29	43	57	73	87	102	116	130	146
		NC	-	-	32	39	44	49	53	57	56
		Throw, m	1 - 1.5 - 3	1.5 - 2.5 - 4.5	2.3 - 3 - 5.5	2.5 - 4 - 6	3 - 4.5 - 6.8	3.8 - 5.3 - 7	4.3 - 5.5 - 7.5	4.5 - 5.8 - 8	5 - 6 - 8.5
		Side Wall									
63.08	6.35	Total Pressure, Pa	3	6	11	17	24	33	43	54	67
		l/s per m	40	60	80	101	121	141	161	181	201
		NC	-	-	34	40	46	50	54	58	58
		Throw, m	1 - 1.8 - 3.8	1.8 - 2.8 - 5.5	2.5 - 3.8 - 6.5	3 - 4.5 - 7	3.8 - 5.5 - 7.5	4.3 - 5.8 - 8.3	5 - 6.5 - 8.8	5.5 - 6.8 - 9.5	5.8 - 7 - 10
		Side Wall									
81.63	7.62	Total Pressure, Pa	3	6	10	17	24	32	43	53	66
		l/s per m	51	77	102	128	155	180	206	231	257
		NC	-	-	35	41	47	51	55	59	59
		Throw, m	1 - 2.3 - 4	2.3 - 3 - 6	2.8 - 4 - 7	3.3 - 5.3 - 8	4 - 6 - 8.8	4.5 - 6.8 - 9.5	5.5 - 7 - 10	6 - 7.5 - 10.8	6.5 - 8 - 11.3
		Side Wall									
100.18	8.89	Total Pressure, Pa	3	6	11	17	24	33	43	54	67
		l/s per m	63	94	127	158	189	221	252	285	316
		NC	-	27	36	42	48	53	56	60	60
		Throw, m	1.3 - 2.3 - 4.5	2.3 - 3.3 - 6.8	3 - 4.5 - 8	3.8 - 5.5 - 8.8	4.5 - 6.8 - 9.8	5.3 - 7.3 - 10.3	6 - 8 - 11.3	6.8 - 8.5 - 12	7.3 - 8.8 - 12.5
		Side Wall									
118.73	10.16	Total Pressure, Pa	3	6	11	17	25	34	44	56	69
		l/s per m	76	113	152	189	226	265	302	341	378
		NC	-	28	37	44	49	54	58	61	61
		Throw, m	1.3 - 2.5 - 5	2.5 - 3.8 - 7.3	3.3 - 5 - 8.5	4 - 6 - 9.8	5 - 7.3 - 10.8	5.8 - 8.3 - 11.5	6.8 - 8.5 - 12.3	7.3 - 9.3 - 13	8 - 9.8 - 13.8
		Side Wall									
155.84	12.7	Total Pressure, Pa	3	6	11	17	24	33	42	54	66
		l/s per m	98	146	194	243	291	341	389	437	486
		NC	-	29	38	44	50	54	58	62	62
		Throw, m	1.3 - 2.8 - 5.5	2.8 - 4.3 - 8.3	3.8 - 5.5 - 9.8	4.5 - 7 - 11	5.5 - 8.3 - 12	6.5 - 9.3 - 13	7.3 - 9.8 - 14	8.3 - 10.3 - 14.8	8.8 - 11 - 15.5
		Side Wall									
192.94	15.24	Total Pressure, Pa	3	6	11	17	24	33	42	54	66
		l/s per m	121	180	240	300	361	421	480	540	601
		NC	-	30	39	45	51	55	59	63	63
		Throw, m	1.5 - 3 - 6	3 - 4.5 - 9.3	4 - 6 - 11	5.3 - 7.5 - 12.3	6 - 9.3 - 13.5	7.3 - 10.3 - 14.3	8.3 - 11 - 15.5	9.3 - 11.5 - 16.5	10 - 12.3 - 17.3
		Side Wall									

Throw & Sound based on 1.22 meter lengths, throw is iso-thermal

Data Notes : CT Diffuser data

- 1.) All Pressures are in Pascals
- 2.) Throw are given for terminal velocities of .8, .5, and .3 mps.
- 3.) Throw and Sound Values are based on a 1.22 m section, Isothermal. Multipliers for other lengths are shown below.
- 4.) NC values are based on a room absorption of 10 dB, re 10-12 Watts. Corrections for lengths other than 1.22 meters are shown below.
- 5.) When the diffuser is used as a return, increase the NC value by 4. The negative static pressure is 0.8 times the listed total pressure shown.
- 6.) This product has been tested per ASHRAE 70-91, with an ideal inlet plenum. If less than ideal inlets are used, sound levels may be higher.
- 7.) Maximum available width is 61 cm except for frames 5,6 & 15 (which are limited to 30.5 mm). Consult your TITUS representative for details.
- 8.) Dash (-) in space denotes an NC value of less than 10.

NC corrections for various diffuser lengths.

Length, mm	600	1225	1825	2450	3050
Supply	-3	0	+2	+3	+5
Return	0	+3	+5	+6	+8

Throw correction for length (Multiply)

Active Length, mm	600	1225	2450	3050	3650
Throw Corr.	0.72	1	1.5	1.7	1.8

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric • contact factory for availability of sizes •



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CT 580

Effective Area, cm ²	Nominal Duct Width, cm											
31.74	3.81	Total Pressure, Pa	3	6	10	16	24	32	42	53	65	
		l/s per m	22	33	43	54	65	76	87	98	108	
		NC	-	16	24	31	36	40	43	47	47	
		Throw, m	Side Wall	0.5 - 1.3 - 2.8	1.3 - 2.3 - 4	1.8 - 2.8 - 4.5	2.3 - 3.3 - 5.3	2.8 - 4 - 5.8	3 - 4.3 - 6	3.8 - 4.5 - 6.8	4 - 5 - 7	4.3 - 5.3 - 7.3
51.03	5.08	Total Pressure, Pa	2	5	9	15	21	28	37	47	58	
		l/s per m	34	51	68	85	102	119	136	153	170	
		NC	-	17	25	31	36	40	44	47	47	
		Throw, m	Side Wall	1 - 1.8 - 3.3	1.8 - 2.5 - 5.3	2.3 - 3.3 - 5.8	2.8 - 4.3 - 6.5	3.3 - 5.3 - 7	4 - 5.5 - 7.5	4.5 - 5.8 - 8.3	5.3 - 6 - 8.8	5.3 - 6.5 - 9.3
70.31	6.35	Total Pressure, Pa	2	5	8	13	18	24	32	40	49	
		l/s per m	46	68	90	111	133	155	176	198	220	
		NC	-	17	25	31	36	40	43	47	47	
		Throw, m	Side Wall	1 - 1.8 - 4	1.8 - 2.8 - 5.8	2.5 - 3.8 - 6.8	3 - 4.5 - 7.3	3.8 - 5.5 - 8.3	4.3 - 6 - 8.8	5 - 6.8 - 9.5	5.5 - 7 - 10	6 - 7.3 - 10.3
89.59	7.62	Total Pressure, Pa	2	5	9	14	21	28	37	47	58	
		l/s per m	59	90	121	152	183	214	245	276	307	
		NC	-	19	27	33	39	43	47	50	50	
		Throw, m	Side Wall	1.3 - 2.3 - 4.3	2.3 - 3.3 - 6.8	3 - 4.5 - 7.5	3.8 - 5.8 - 8.5	4.5 - 6.8 - 9.5	5.5 - 7.3 - 10.3	6 - 8 - 11	6.8 - 8.3 - 11.5	7 - 8.8 - 12.3
108.88	8.89	Total Pressure, Pa	2	5	8	13	19	26	34	43	52	
		l/s per m	71	107	142	178	214	249	285	320	356	
		NC	-	19	27	33	38	42	46	49	49	
		Throw, m	Side Wall	1.3 - 2.5 - 5	2.5 - 3.8 - 7.3	3.3 - 5 - 8.5	4 - 6 - 9.5	5 - 7.3 - 10.3	5.8 - 8 - 11.3	6.5 - 8.5 - 12	7.3 - 8.8 - 12.5	7.5 - 9.5 - 13.5
128.16	10.16	Total Pressure, Pa	2	5	9	13	19	26	34	43	53	
		l/s per m	87	128	170	212	254	296	337	379	421	
		NC	-	20	28	34	39	43	47	50	50	
		Throw, m	Side Wall	1.5 - 2.8 - 5.5	2.8 - 4 - 8	3.8 - 5.5 - 9.3	4.5 - 6.8 - 10.3	5.3 - 8 - 11.3	6 - 8.5 - 12.3	7 - 9.3 - 12.8	8 - 9.8 - 13.8	8.3 - 10.3 - 14.3
166.72	12.7	Total Pressure, Pa	2	5	8	13	19	25	33	42	51	
		l/s per m	111.456	166	220	274	328	382	437	491	545	
		NC	-	21	29	35	40	44	48	51	51	
		Throw, m	Side Wall	1.5 - 3 - 6	3 - 4.5 - 9.3	4 - 6 - 10.3	5 - 7.5 - 11.5	6 - 9.3 - 12.8	7 - 9.8 - 13.8	8 - 10.3 - 14.8	9.3 - 11 - 15.5	9.5 - 11.5 - 16.5
205.29	15.24	Total Pressure, Pa	2	5	9	14	20	27	35	44	55	
		l/s per m	136	206	276	345	415	485	554	624	694	
		NC	-	22	30	37	42	46	50	53	53	
		Throw, m	Side Wall	1.8 - 3.3 - 6.8	3.3 - 5.3 - 10	4.5 - 6.8 - 11.5	5.8 - 8.5 - 13	6.8 - 10 - 14.3	8 - 11 - 15.5	9.3 - 12 - 16.5	10 - 12.5 - 17.8	10.8 - 13 - 18.5

Throw & Sound based on 1.22 meter lengths, throw is iso-thermal

Data Notes : CT Diffuser data

- 1.) All Pressures are in Pascals
- 2.) Throw are given for terminal velocities of .8, .5, and .3 mps.
- 3.) Throw and Sound Values are based on a 1.22 m section, Isothermal. Multipliers for other lengths are shown below.
- 4.) NC values are based on a room absorption of 10 dB, re 10-12 Watts. Corrections for lengths other than 1.22 meters are shown below.
- 5.) When the diffuser is used as a return, increase the NC value by 4. The negative static pressure is 0.8 times the listed total pressure shown.
- 6.) This product has been tested per ASHRAE 70-91, with an ideal inlet plenum. If less than ideal inlets are used, sound levels may be higher.
- 7.) Maximum available width is 61 cm except for frames 5,6 & 15 (which are limited to 30.5 mm). Consult your TITUS representative for details.
- 8.) Dash (-) in space denotes an NC value of less than 10.

NC corrections for various diffuser lengths.

Length, mm	600	1225	1825	2450	3050
Supply	-3	0	+2	+3	+5
Return	0	+3	+5	+6	+8

Throw correction for length (Multiply)

Active Length, mm	600	1225	2450	3050	3650
Throw Corr.	0.72	1	1.5	1.7	1.8

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric • contact factory for availability of sizes •



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CT-581

Effective Area, cm ²	Nominal Duct Width, cm										
32.81	3.81	Total Pressure, Pa	3	8	14	21	31	42	55	69	85
		l/s per m	25	37	50	62	74	87	99	111	124
		NC	14	26	35	42	47	52	56	59	60
		Throw, m	1 - 1.5 - 3	1.5 - 2.5 - 4.3	2.3 - 3 - 5	2.5 - 4 - 5.5	3 - 4.3 - 6	3.8 - 4.5 - 6.8	4 - 5 - 7	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8
		Side Wall									
51.41	5.08	Total Pressure, Pa	2	5	9	14	21	28	37	47	58
		l/s per m	34	51	68	85	102	119	136	153	170
		NC	11	23	32	38	44	48	52	56	56
		Throw, m	1 - 1.8 - 3.3	1.8 - 2.5 - 5.3	2.3 - 3.3 - 5.8	2.8 - 4.3 - 6.5	3.3 - 5.3 - 7	4 - 5.5 - 7.5	4.5 - 5.8 - 8.3	5.3 - 6 - 8.8	5.3 - 6.5 - 9.3
		Side Wall									
70.07	6.35	Total Pressure, Pa	2	5	9	14	20	27	35	45	55
		l/s per m	46	70	93	116	139	163	186	209	232
		NC	12	24	33	39	45	49	53	57	57
		Throw, m	1 - 1.8 - 4	1.8 - 3 - 5.8	2.8 - 4 - 6.8	3.3 - 5 - 7.5	4 - 5.8 - 8.3	4.5 - 6.5 - 8.8	5.3 - 6.8 - 9.8	5.8 - 7.3 - 10	6 - 7.5 - 10.8
		Side Wall									
88.74	7.62	Total Pressure, Pa	2	5	9	13	19	26	34	43	53
		l/s per m	59	88	118	147	176	206	235	265	294
		NC	13	25	33	40	45	50	54	58	58
		Throw, m	1.3 - 2.3 - 4.5	2.3 - 3.3 - 6.8	3 - 4.5 - 7.5	3.8 - 5.5 - 8.5	4.5 - 6.8 - 9.5	5.3 - 7 - 10	5.8 - 7.5 - 10.8	6.8 - 8.3 - 11.5	7 - 8.5 - 12.3
		Side Wall									
107.40	8.89	Total Pressure, Pa	2	5	8	13	19	25	33	42	52
		l/s per m	70	105	141	176	212	248	283	319	354
		NC	13	25	34	40	46	51	55	58	58
		Throw, m	1.3 - 2.5 - 5	2.5 - 3.8 - 7.3	3.3 - 5 - 8.3	4 - 6 - 9.5	5 - 7.3 - 10.3	5.8 - 8 - 11	6.5 - 8.5 - 12	7.3 - 8.8 - 12.5	7.5 - 9.5 - 13.5
		Side Wall									
126.06	10.16	Total Pressure, Pa	2	5	8	13	18	25	33	42	51
		l/s per m	82	124	166	207	249	291	333	375	416
		NC	-	26	34	41	46	51	55	59	59
		Throw, m	1.3 - 2.8 - 5.3	2.8 - 4 - 8	3.3 - 5.3 - 9.3	4.3 - 6.8 - 10	5.3 - 8 - 11.3	6 - 8.5 - 12	7 - 9.3 - 12.8	8 - 9.8 - 13.8	8.3 - 10 - 14.3
		Side Wall									
163.38	12.7	Total Pressure, Pa	2	4	8	13	18	25	32	41	50
		l/s per m	107	161	215	269	324	378	432	486	540
		NC	14	27	35	42	48	52	56	60	60
		Throw, m	1.5 - 3 - 5.8	3 - 4.5 - 8.8	4 - 6 - 10.3	5 - 7.5 - 11.5	6 - 8.8 - 12.8	7 - 9.8 - 13.8	8 - 10.3 - 14.8	8.8 - 11 - 15.5	9.5 - 11.5 - 16.5
		Side Wall									
200.71	15.24	Total Pressure, Pa	2	4	8	12	17	24	31	39	48
		l/s per m	132	197	262	327	392	457	522	587	652
		NC	15	27	36	43	48	53	57	60	60
		Throw, m	1.8 - 3.3 - 6.8	3.3 - 5 - 9.8	4.3 - 6.8 - 11.3	5.5 - 8.3 - 12.8	6.5 - 9.8 - 14	7.5 - 10.8 - 15	8.8 - 11.3 - 16.3	9.8 - 12.3 - 17	10.3 - 12.8 - 18
		Side Wall									

Throw & Sound based on 1.22 meter lengths, throw is iso-thermal

Data Notes : CT Diffuser data

- 1.) All Pressures are in Pascals
- 2.) Throw are given for terminal velocities of .8, .5, and .3 mps.
- 3.) Throw and Sound Values are based on a 1.22 m section, Isothermal. Multipliers for other lengths are shown below.
- 4.) NC values are based on a room absorption of 10 dB, re 10-12 Watts. Corrections for lengths other than 1.22 meters are shown below.
- 5.) When the diffuser is used as a return, increase the NC value by 4. The negative static pressure is 0.8 times the listed total pressure shown.
- 6.) This product has been tested per ASHRAE 70-91, with an ideal inlet plenum. If less than ideal inlets are used, sound levels may be higher.
- 7.) Maximum available width is 61 cm except for frames 5,6 & 15 (which are limited to 30.5 mm). Consult your TITUS representative for details.
- 8.) Dash (-) in space denotes an NC value of less than 10.

NC corrections for various diffuser lengths.

Length, mm	600	1225	1825	2450	3050
Supply	-3	0	+2	+3	+5
Return	0	+3	+5	+6	+8

Throw correction for length (Multiply)

Active Length, mm	600	1225	2450	3050	3650
Throw Corr.	0.72	1	1.5	1.7	1.8

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric • contact factory for availability of sizes •



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CT-PP-O

Effective Area, cm ²	Nominal Duct Width, cm										
26.45	3.81	Total Pressure, Pa	3	7	13	21	30	41	53	67	83
		l/s per m	19	28	37	46	56	65	74	84	93
		NC	-	-	24	31	36	40	44	47	47
		Throw, m	0.5 - 1.3 - 2.5	1.3 - 1.8 - 3.8	1.8 - 2.5 - 4.3	2.3 - 3.3 - 5	2.5 - 3.8 - 5.3	3 - 4 - 5.8	3.3 - 4.3 - 6	3.8 - 4.5 - 6.5	4 - 5 - 6.8
		Side Wall									
46.62	5.08	Total Pressure, Pa	3	7	13	21	30	41	53	67	83
		l/s per m	31	46	62	77	93	108	124	139	155
		NC	-	-	27	33	38	42	46	50	49
		Throw, m	1 - 1.5 - 3.3	1.5 - 2.5 - 5	2.3 - 3.3 - 5.5	2.8 - 4 - 6	3.3 - 5 - 6.8	3.8 - 5.3 - 7.3	4.3 - 5.5 - 8	5 - 5.8 - 8.3	5.3 - 6 - 8.8
		Side Wall									
66.80	6.35	Total Pressure, Pa	3	7	13	21	30	41	53	67	83
		l/s per m	43	65	87	108	130	152	173	195	217
		NC	-	-	28	34	40	44	48	51	51
		Throw, m	1 - 1.8 - 3.8	1.8 - 2.8 - 5.8	2.5 - 3.8 - 6.8	3 - 4.5 - 7.3	3.8 - 5.8 - 8	4.3 - 6 - 8.5	5 - 6.8 - 9.3	5.8 - 7 - 9.8	6 - 7.3 - 10.3
		Side Wall									
86.97	7.62	Total Pressure, Pa	4	8	15	23	33	45	59	75	93
		l/s per m	59	88	118	147	176	206	235	265	294
		NC	-	-	31	37	42	47	50	54	54
		Throw, m	1.3 - 2.3 - 4.5	2.3 - 3.3 - 6.8	3 - 4.5 - 7.5	3.8 - 5.5 - 8.5	4.5 - 6.8 - 9.5	5.3 - 7 - 10	6 - 7.5 - 10.8	6.8 - 8.3 - 11.5	7 - 8.5 - 12.3
		Side Wall									
107.14	8.89	Total Pressure, Pa	4	8	15	23	33	45	58	74	91
		l/s per m	71	107	142	178	214	249	285	320	356
		NC	-	23	31	38	43	47	51	54	54
		Throw, m	1.3 - 2.5 - 5	2.5 - 3.8 - 7.3	3.3 - 5 - 8.5	4 - 6 - 9.5	5 - 7.3 - 10.3	5.8 - 8 - 11.3	6.5 - 8.5 - 12	7.3 - 8.8 - 12.5	7.5 - 9.5 - 13.5
		Side Wall									
127.31	10.16	Total Pressure, Pa	4	8	14	22	32	44	57	73	90
		l/s per m	84	125	167	209	251	293	334	376	418
		NC	-	24	32	38	43	48	51	55	55
		Throw, m	1.3 - 2.8 - 5.3	2.8 - 4 - 8	3.8 - 5.3 - 9.3	4.3 - 6.8 - 10	5.3 - 8 - 11.3	6 - 8.5 - 12.3	7 - 9.3 - 12.8	8 - 9.8 - 13.8	8.3 - 10 - 14.3
		Side Wall									
167.65	12.7	Total Pressure, Pa	4	8	15	23	32	44	57	72	89
		l/s per m	111	166	220	274	328	382	437	491	545
		NC	-	25	33	39	44	49	53	56	56
		Throw, m	1.5 - 3 - 6	3 - 4.5 - 9.3	4 - 6 - 10.3	5 - 7.5 - 11.5	6 - 9.3 - 12.8	7 - 9.8 - 13.8	8 - 10.3 - 14.8	8.8 - 11 - 15.5	9.5 - 11.5 - 16.5
		Side Wall									
207.99	15.24	Total Pressure, Pa	3	7	13	22	33	45	60	77	96
		l/s per m	116	189	262	334	407	480	553	625	698
		NC	-	24	33	40	46	50	54	58	58
		Throw, m	1.3 - 2.8 - 5.8	3 - 4.5 - 9.5	4.3 - 6.5 - 11.3	5.5 - 8.3 - 12.8	6.8 - 10 - 14.3	8 - 11 - 15.5	9.3 - 11.5 - 16.5	10 - 12.5 - 17.8	10.8 - 13 - 18.5
		Side Wall									

Throw & Sound based on 1.22 meter lengths, throw is iso-thermal

Data Notes : CT Diffuser data

- 1.) All Pressures are in Pascals
- 2.) Throw are given for terminal velocities of .8, .5, and .3 mps.
- 3.) Throw and Sound Values are based on a 1.22 m section, Isothermal. Multipliers for other lengths are shown below.
- 4.) NC values are based on a room absorption of 10 dB, re 10-12 Watts. Corrections for lengths other than 1.22 meters are shown below.
- 5.) When the diffuser is used as a return, increase the NC value by 4. The negative static pressure is 0.8 times the listed total pressure shown.
- 6.) This product has been tested per ASHRAE 70-91, with an ideal inlet plenum. If less than ideal inlets are used, sound levels may be higher.
- 7.) Maximum available width is 61 cm except for frames 5,6 & 15 (which are limited to 30.5 mm). Consult your TITUS representative for details.
- 8.) Dash (-) in space denotes an NC value of less than 10.

NC corrections for various diffuser lengths.

Length, mm	600	1225	1825	2450	3050
Supply	-3	0	+2	+3	+5
Return	0	+3	+5	+6	+8

Throw correction for length (Multiply)

Active Length, mm	600	1225	2450	3050	3650
Throw Corr.	0.72	1	1.5	1.7	1.8

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric • contact factory for availability of sizes •



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CT-PP-3

Effective Area, cm ²	Nominal Duct Width, cm										
28.42	3.81	Total Pressure, Pa	4	8	14	22	32	43	55	70	86
		l/s per m	20	29	39	48	57	67	76	85	94
		NC	-	-	35	41	46	50	54	57	57
		Throw, m	0.5 - 1.3 - 2.8	1.3 - 1.8 - 4	1.8 - 2.5 - 4.3	2.3 - 3 - 5	2.5 - 3.8 - 5.5	3 - 4 - 5.8	3.3 - 4.3 - 6	3.8 - 4.5 - 6.5	4 - 5 - 6.8
		Side Wall									
45.05	5.08	Total Pressure, Pa	3	7	13	20	29	40	52	66	82
		l/s per m	29	45	60	76	91	107	122	138	153
		NC	-	-	35	42	47	51	55	59	59
		Throw, m	1 - 1.5 - 3	1.5 - 2.5 - 4.5	2.3 - 3 - 5.5	2.8 - 4 - 6	3.3 - 5 - 6.8	3.8 - 5.3 - 7.3	4.3 - 5.5 - 8	5 - 5.8 - 8.3	5.3 - 6 - 8.8
		Side Wall									
61.68	6.35	Total Pressure, Pa	3	6	11	18	26	35	46	58	72
		l/s per m	40	60	80	101	121	141	161	181	201
		NC	-	-	35	41	47	51	55	58	58
		Throw, m	1 - 1.8 - 3.8	1.8 - 2.8 - 5.5	2.5 - 3.8 - 6.5	3 - 4.5 - 7	3.8 - 5.5 - 7.5	4.3 - 5.8 - 8.3	5 - 6.5 - 8.8	5.5 - 6.8 - 9.5	5.8 - 7 - 10
		Side Wall									
78.30	7.62	Total Pressure, Pa	3	6	12	18	26	36	47	59	73
		l/s per m	51	77	104	130	156	183	209	235	262
		NC	-	-	36	43	48	53	56	60	59
		Throw, m	1 - 2.3 - 4	2.3 - 3 - 6	2.8 - 4.3 - 7.3	3.3 - 5.3 - 8	4.3 - 6 - 8.8	5 - 6.8 - 9.5	5.5 - 7.3 - 10	6 - 7.5 - 10.8	6.8 - 8 - 11.3
		Side Wall									
94.93	8.89	Total Pressure, Pa	3	6	11	17	25	34	44	56	69
		l/s per m	62	93	124	155	186	217	248	279	310
		NC	-	28	36	43	48	53	56	60	59
		Throw, m	1.3 - 2.3 - 4.5	2.3 - 3.3 - 6.8	3 - 4.5 - 8	3.8 - 5.8 - 8.8	4.5 - 6.8 - 9.8	5.3 - 7.3 - 10.3	6 - 8 - 11	6.8 - 8.3 - 12	7 - 8.8 - 12.5
		Side Wall									
111.55	10.16	Total Pressure, Pa	3	7	12	19	27	37	49	62	76
		l/s per m	75.852	115	153	192	231	269	308	347	385
		NC	-	30	38	45	50	55	59	62	62
		Throw, m	1.3 - 2.5 - 5.3	2.5 - 4 - 7.5	3.3 - 5.3 - 8.8	4.3 - 6.5 - 9.8	5.3 - 7.5 - 10.8	6 - 8.3 - 11.5	7 - 8.8 - 12.5	7.5 - 9.3 - 13	8 - 9.8 - 13.8
		Side Wall									
144.81	12.7	Total Pressure, Pa	3	6	12	18	26	36	47	59	73
		l/s per m	98	147	197	246	296	345	395	444	494
		NC	-	31	39	46	51	55	59	63	62
		Throw, m	1.5 - 2.8 - 5.8	2.8 - 4.3 - 8.5	4 - 5.8 - 9.8	5 - 7.3 - 11	5.8 - 8.5 - 12.3	6.8 - 9.3 - 13	7.5 - 9.8 - 14	8.5 - 10.3 - 15	9.3 - 11 - 15.5
		Side Wall									
178.06	15.24	Total Pressure, Pa	3	6	11	18	25	35	45	57	71
		l/s per m	118	178	238	299	359	420	480	540	601
		NC	-	31	39	46	51	56	60	63	63
		Throw, m	1.5 - 3 - 6.5	3 - 5 - 9.5	4.3 - 6.5 - 11	5.3 - 8 - 12.3	6.5 - 9.5 - 13.5	7.3 - 10.3 - 14.3	8.5 - 11 - 15.5	9.5 - 11.5 - 16.5	10 - 12.3 - 17.3
		Side Wall									

Throw & Sound based on 1.22 meter lengths, throw is iso-thermal

Data Notes : CT Diffuser data

- 1.) All Pressures are in Pascals
- 2.) Throw are given for terminal velocities of .8, .5, and .3 mps.
- 3.) Throw and Sound Values are based on a 1.22 m section, Isothermal. Multipliers for other lengths are shown below.
- 4.) NC values are based on a room absorption of 10 dB, re 10-12 Watts. Corrections for lengths other than 1.22 meters are shown below.
- 5.) When the diffuser is used as a return, increase the NC value by 4. The negative static pressure is 0.8 times the listed total pressure shown.
- 6.) This product has been tested per ASHRAE 70-91, with an ideal inlet plenum. If less than ideal inlets are used, sound levels may be higher.
- 7.) Maximum available width is 61 cm except for frames 5,6 & 15 (which are limited to 30.5 mm). Consult your TITUS representative for details.
- 8.) Dash (-) in space denotes an NC value of less than 10.

NC corrections for various diffuser lengths.

Length, mm	600	1225	1825	2450	3050
Supply	-3	0	+2	+3	+5
Return	0	+3	+5	+6	+8

Throw correction for length (Multiply)

Active Length, mm	600	1225	2450	3050	3650
Throw Corr.	0.72	1	1.5	1.7	1.8

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric • contact factory for availability of sizes •



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