

Drum Louver-Curved/Flat Frame

MODEL	Discharge Velocity	500	750	1000	1500	2000	2500
DL-1204	CFM	72	107	143	215	286	358
	Total Pressure	0.021	0.047	0.084	0.189	0.334	0.523
	NC	<15	<15	<15	21	29	39
	Projection	3-5-10	4-8-16	5-10-22	8-17-31	11-22-36	13-28-41
DL-1804	CFM	114	171	228	342	456	570
	Total Pressure	0.024	0.055	0.098	0.219	0.391	0.611
	NC	<15	<15	<15	23	33	41
	Projection	4-8-16	5-12-25	8-18-32	13-26-40	18-32-46	22-36-52
DL-2404	CFM	146	218	291	437	583	728
	Total Pressure	0.023	0.051	0.091	0.204	0.365	0.57
	NC	<15	<15	<15	24	34	42
	Projection	5-10-23	8-16-30	11-23-37	17-32-46	22-37-53	25-41-59
DL-3004	CFM	183	274	366	549	731	914
	Total Pressure	0.024	0.052	0.095	0.208	0.379	0.59
	NC	<15	<15	<15	25	35	43
	Projection	7-14-29	10-21-35	14-29-41	22-36-50	25-41-59	28-47-65
DL-3604	CFM	220	330	440	660	880	1100
	Total Pressure	0.024	0.052	0.095	0.208	0.379	0.59
	NC	<15	<15	<15	26	36	45
	Projection	8-17-32	12-24-39	17-32-46	24-40-55	28-46-64	31-50-72
DL-4204	CFM	257	386	514	772	1029	1286
	Total Pressure	0.024	0.054	0.095	0.215	0.381	0.593
	NC	<15	<15	<15	27	37	46
	Projection	10-20-35	15-27-42	20-35-49	26-42-60	30-49-70	33-55-78
DL-4804	CFM	294	442	589	883	1178	1472
	Total Pressure	0.024	0.054	0.096	0.215	0.384	0.593
	NC	<15	<15	<15	28	38	47
	Projection	12-23-37	17-30-45	22-37-53	28-46-65	32-53-74	36-59-83
DL-6004	CFM	369	553	738	1106	1475	1844
	Total Pressure	0.024	0.054	0.097	0.216	0.385	0.603
	NC	<15	<15	<15	29	38	48
	Projection	14-29-42	19-35-50	25-42-59	31-50-72	36-59-83	40-66-92

Performance data based on ASHRAE 70-91

performance values for various deflection angles

Deflection Angle	0°	15°	30°	45°
Total Pressure [times]	1.0	1.2	1.8	2.4
Throw Projection [times]	1.0	0.8	0.7	0.5
Noise Criteria – NC [add]	+0	+3	+7	+12

Airflow CFM: Standard air density and isothermal conditions.

Total Pressure: Inches of water gauge required.

Discharge Velocity: Discharge Velocity in feet per minute [fpm].

Noise Criteria: Noise criteria [NC] curve which is not exceeded with a Room Attenuation of 10db and based on Sound Power Level Re: 10-12 watts.

Projection: Projection distance [THROW] in feet from the Louver discharge at which the maximum velocity has been reduced to specified terminal velocity [Vt].

Terminal Velocity: Maximum velocity [Vt] in feet per minute at the specified distance from the outlet face [THROW] 200 fpm, 100 fpm, and 50 fpm respectively.

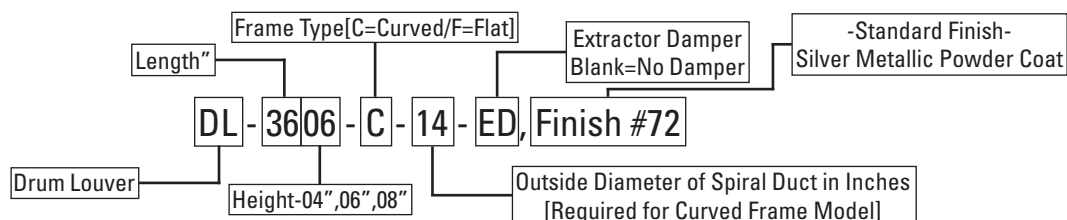
Drum Louver-Curved/Flat Frame

MODEL	Discharge Velocity	500	750	1000	1250	1500	2000
DL-1206	CFM	135	203	270	338	405	540
	Total Pressure	0.028	0.044	0.112	0.176	0.253	0.45
	NC	<15	<15	16	24	30	41
	Projection	5-10-20	8-16-31	10-20-36	12-25-39	15-31-43	21-36-50
DL-1806	CFM	205	308	410	513	615	820
	Total Pressure	0.03	0.067	0.119	0.189	0.267	0.476
	NC	<15	<15	18	26	32	42
	Projection	8-16-31	12-24-38	15-31-43	19-34-48	23-38-54	27-43-62
DL-2406	CFM	276	413	551	689	827	1102
	Total Pressure	0.03	0.069	0.123	0.192	0.276	0.492
	NC	<15	<15	20	28	34	44
	Projection	11-21-36	15-31-44	21-36-50	24-40-56	27-44-62	31-50-72
DL-3006	CFM	346	518	691	864	1037	1382
	Total Pressure	0.031	0.07	0.126	0.195	0.281	0.504
	NC	<15	<15	21	29	35	45
	Projection	13-26-41	20-35-49	24-40-56	27-44-63	30-49-70	35-56-80
DL-3606	CFM	416	624	832	1040	1248	1664
	Total Pressure	0.032	0.071	0.128	0.199	0.285	0.51
	NC	<15	<15	22	30	36	46
	Projection	16-31-44	23-38-54	27-44-62	30-49-69	33-54-77	38-62-88
DL-4206	CFM	487	730	973	1216	1460	1946
	Total Pressure	0.032	0.072	0.129	0.201	0.287	0.512
	NC	<15	<15	23	31	37	47
	Projection	19-34-48	25-41-59	29-48-67	32-53-75	36-59-83	41-67-95
DL-4806	CFM	557	835	1113	1391	1670	2226
	Total Pressure	0.032	0.072	0.129	0.202	0.29	0.514
	NC	<15	<15	23	32	38	48
	Projection	22-36-52	27-44-62	31-52-72	35-57-80	39-62-89	44-72-102
DL-6006	CFM	698	1046	1395	1744	2093	2790
	Total Pressure	0.033	0.073	0.131	0.204	0.293	0.522
	NC	<15	<15	24	32	39	49
	Projection	24-41-58	31-49-70	35-58-80	39-64-89	43-70-98	49-80-114

Performance data based on ASHRAE 70-91

performance values for various deflection angles

Deflection Angle	0°	15°	30°	45°
Total Pressure [times]	1.0	1.2	1.8	2.4
Throw Projection [times]	1.0	0.8	0.7	0.5
Noise Criteria – NC [add]	+0	+3	+7	+12



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MODEL	Discharge Velocity	500	750	1000	1250	1500	2000
DL-1208	CFM	200	300	400	500	600	800
	Total Pressure	0.034	0.075	0.135	0.210	0.303	0.538
	NC	<15	<15	21	29	36	46
	Projection	8-16-30	12-23-37	15-30-43	18-33-48	22-37-53	26-43-61
DL-1808	CFM	304	456	608	760	912	1216
	Total Pressure	0.036	0.081	0.143	0.223	0.322	0.572
	NC	<15	<15	23	31	37	47
	Projection	12-23-37	17-32-46	23-37-53	25-41-59	28-46-65	32-53-76
DL-2408	CFM	408	612	816	1020	1224	1632
	Total Pressure	0.037	0.083	0.147	0.23	0.332	0.585
	NC	<15	15	25	33	39	48
	Projection	15-31-43	23-38-54	27-43-61	29-48-68	32-54-76	38-61-88
DL-3008	CFM	512	768	1024	1280	1536	2048
	Total Pressure	0.037	0.084	0.149	0.234	0.335	0.595
	NC	<15	16	26	34	40	49
	Projection	20-35-49	26-42-60	30-49-70	33-54-77	37-60-85	42-70-98
DL-3608	CFM	617	925	1233	1541	1850	2466
	Total Pressure	0.038	0.085	0.151	0.237	0.34	0.604
	NC	<15	17	27	35	41	50
	Projection	23-38-54	29-47-66	33-54-76	36-60-84	40-66-92	47-76-107
DL-4208	CFM	721	1081	1441	1801	2162	2882
	Total Pressure	0.038	0.086	0.153	0.239	0.345	0.613
	NC	<15	18	28	35	42	52
	Projection	25-41-58	31-50-71	35-58-82	39-64-91	43-71-101	50-82-116
DL-4808	CFM	825	1237	1649	2061	2474	3298
	Total Pressure	0.039	0.087	0.155	0.241	0.347	0.619
	NC	<15	19	29	36	43	53
	Projection	27-44-62	33-54-76	38-62-88	42-69-98	47-76-108	54-88-124
DL-6008	CFM	1033	1550	2066	2583	3099	4132
	Total Pressure	0.039	0.088	0.156	0.244	0.350	0.622
	NC	<15	20	30	37	44	54
	Projection	30-49-70	37-60-85	42-70-98	47-77-109	52-85-120	60-98-139

Performance data based on ASHRAE 70-91

performance values for various deflection angles

Deflection Angle	0°	15°	30°	45°
Total Pressure [times]	1.0	1.2	1.8	2.4
Throw Projection [times]	1.0	0.8	0.7	0.5
Noise Criteria – NC [add]	+0	+3	+7	+12

Sample Specification:

Air outlets shall be DL Series Drum Louvers by AirConcepts, Inc. Model DL-C (drum louver with curved frame to match the spiral duct diameter) or DL-F (drum louver with flat frame to mount on exposed rectangular duct work). Sizes and model shall be as required or as shown on the plans. Construction shall be of heavy gauge aluminum extrusions with a standard #72 Silver Metallic Powder Coat Finish (or alternate color as selected by architect). Directional control shall be accomplished without the use of special tools. The drum louver shall be capable of a plus or minus 40 degree rotation about the center line. The spread deflection shall be adjustable from 0 to 45 degrees using individually adjustable 2 inch airfoil blades on 2 inch centers. The blades shall be pivoted from the front of the louver to provide a uniform architectural appearance. Where indicated on the plans, the units shall have an extract-damper pre-installed. The drum louver and damper assembly shall have minimum intrusion into the duct work and shall not limit the drum rotation.

Drum Louver-Curved/Flat Frame

MODEL	Discharge Velocity	500	750	1000	1250	1500	2000
DL-1210	CFM	270	405	540	675	810	1080
	Total Pressure	0.025	0.06	0.10	0.17	0.24	0.40
	NC	<15	17	25	33	40	50
	Projection	10-21-35	15-30-43	22-36-50	24-40-56	27-43-61	31-50-70
DL-1810	CFM	410	615	820	1025	1230	1640
	Total Pressure	0.03	0.074	0.119	0.205	0.296	0.475
	NC	<15	19	27	35	41	51
	Projection	15-30-43	23-38-54	27-43-61	30-49-70	33-54-76	38-62-88
DL-2410	CFM	550	825	1100	1375	1650	2200
	Total Pressure	0.03	0.077	0.125	0.215	0.312	0.50
	NC	<15	20	28	36	42	52
	Projection	21-36-50	27-44-62	31-50-72	35-56-80	38-62-88	43-71-101
DL-3010	CFM	690	1035	1380	1725	2070	2760
	Total Pressure	0.031	0.078	0.125	0.218	0.313	0.504
	NC	<15	21	29	37	43	53
	Projection	24-41-58	31-49-70	35-58-80	38-62-87	42-70-97	48-80-110
DL-3610	CFM	830	1245	1660	2075	2490	3320
	Total Pressure	0.032	0.08	0.128	0.224	0.32	0.512
	NC	<15	22	30	38	44	54
	Projection	27-44-62	33-54-77	39-62-89	42-70-98	47-76-108	55-90-125
DL-4210	CFM	970	1455	1940	2425	2910	3880
	Total Pressure	0.032	0.081	0.13	0.227	0.325	0.524
	NC	15	23	31	39	45	55
	Projection	29-48-67	36-59-83	41-67-95	47-76-107	50-82-116	66-93-131
DL-4810	CFM	1110	1665	2220	2775	3330	4440
	Total Pressure	0.033	0.082	0.132	0.23	0.328	0.53
	NC	16	24	32	40	47	57
	Projection	35-50-70	43-61-86	50-70-99	55-78-111	61-86-121	70-99-140
DL-6010	CFM	1395	2092	2790	3487	4185	5580
	Total Pressure	0.033	0.083	0.133	0.232	0.332	0.532
	NC	17	25	33	41	48	58
	Projection	39-56-79	48-68-96	56-79-111	62-88-124	68-96-136	79-111-157

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performance values for various deflection angles

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