

### Drum Louver-Curved/Flat Frame

MODEL	Discharge Velocity	500	750	1000	1500	2000	2500
<b>DL-1204</b>	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
<b>DL-1804</b>	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
<b>DL-2404</b>	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
<b>DL-3004</b>	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
<b>DL-3604</b>	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
<b>DL-4204</b>	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
<b>DL-4804</b>	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
<b>DL-6004</b>	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.

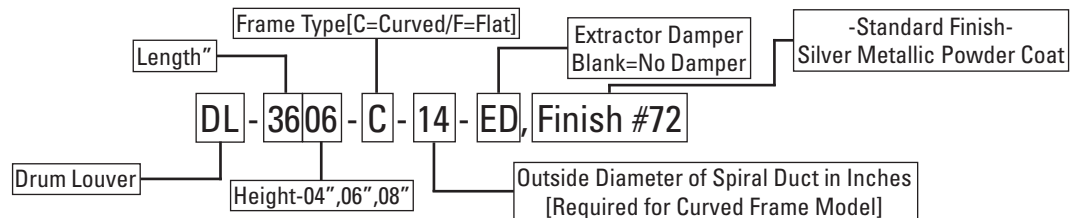
### Drum Louver-Curved/Flat Frame

MODEL	Discharge Velocity	500	750	1000	1250	1500	2000
<b>DL-1206</b>	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
<b>DL-1806</b>	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
<b>DL-2406</b>	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
<b>DL-3006</b>	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
<b>DL-3606</b>	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
<b>DL-4206</b>	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
<b>DL-4806</b>	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
<b>DL-6006</b>	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



### Drum Louver-Curved/Flat Frame

MODEL	Discharge Velocity	500	750	1000	1250	1500	2000
<b>DL-1208</b>	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
<b>DL-1808</b>	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
<b>DL-2408</b>	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
<b>DL-3008</b>	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
<b>DL-3608</b>	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
<b>DL-4208</b>	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
<b>DL-4808</b>	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
<b>DL-6008</b>	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
<b>DL-1210</b>	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
<b>DL-1810</b>	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
<b>DL-2410</b>	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
<b>DL-3010</b>	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
<b>DL-3610</b>	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
<b>DL-4210</b>	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
<b>DL-4810</b>	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
<b>DL-6010</b>	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

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

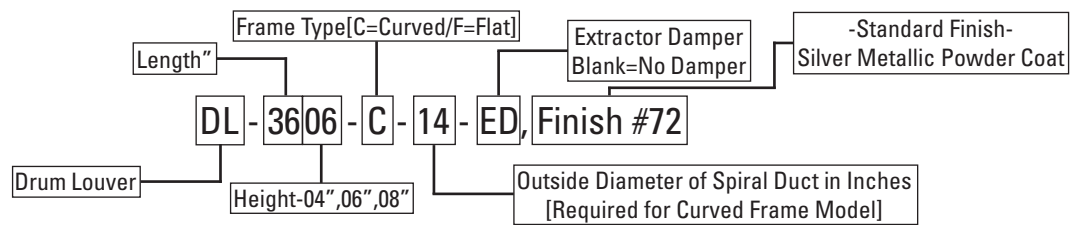
#### Sample Specification:

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### Drum Louver-Curved/Flat Frame

MODEL	Discharge Velocity	500	750	1000	1250	1500	1750
<b>DL-2012</b>	CFM	547	820	1093	1367	1640	1913
	Total Pressure	0.023	0.05	0.09	0.13	0.20	0.255
	NC	<20	<20	25	33	39	44
	Projection	20-36-50	31-43-62	36-54-72	40-58-80	43-62-87	47-67-95
<b>DL-3012</b>	CFM	829	1243	1657	2072	2486	2901
	Total Pressure	0.023	0.05	0.09	0.13	0.20	0.255
	NC	<20	<20	27	35	42	47
	Projection	31-44-62	38-54-76	44-62-87	49-69-98	54-77-108	58-82-116
<b>DL-4012</b>	CFM	1111	1666	2222	2777	3333	3888
	Total Pressure	0.025	0.055	0.10	0.15	0.22	0.295
	NC	<20	<20	29	37	43	48
	Projection	36-50-72	44-62-88	50-72-102	56-80-114	62-88-124	67-94-134
<b>DL-5012</b>	CFM	1393	2089	2786	3482	4179	4875
	Total Pressure	0.025	0.055	0.10	0.15	0.22	0.295
	NC	<20	20	30	38	44	50
	Projection	41-58-80	49-69-98	57-80-114	63-90-127	69-98-139	75-107-151
<b>DL-6012</b>	CFM	1675	2513	3350	4188	5025	5863
	Total Pressure	0.03	0.064	0.11	0.175	0.26	0.34
	NC	<20	21	31	39	45	51
	Projection	44-62-88	58-76-108	62-88-124	70-98-140	76-108-153	82-117-165
<b>DL-7012</b>	CFM	1957	2936	3914	4893	5872	6850
	Total Pressure	0.03	0.064	0.11	0.175	0.26	0.34
	NC	<20	22	32	40	46	53
	Projection	48-67-96	59-82-117	67-96-135	76-108-151	83-117-165	90-126-179

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.

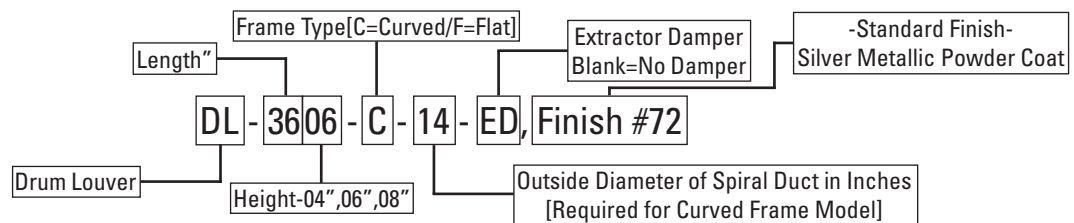
**Projection:** Projection distance [THROW] in feet from the Louver discharge at which the maximum velocity has been reduced to specified terminal velocity [Vt].

**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	1750
<b>DL-2015</b>	CFM	698	1047	1396	1745	2094	2443
	Total Pressure	0.023	0.05	0.09	0.13	0.20	0.255
	NC	<20	<20	27	35	41	46
	Projection	24-41-58	35-49-70	41-58-80	46-64-90	49-70-123	56-76-127
<b>DL-3015</b>	CFM	1058	1587	2116	2646	3175	3704
	Total Pressure	0.025	0.055	0.10	0.15	0.22	0.295
	NC	<20	20	31	39	43	49
	Projection	35-49-71	43-61-86	49-71-100	55-79-112	61-86-122	66-94-132
<b>DL-4015</b>	CFM	1418	2128	2837	3546	4255	4965
	Total Pressure	0.025	0.055	0.10	0.15	0.22	0.295
	NC	<20	21	31	39	45	50
	Projection	41-58-82	50-71-100	58-82-115	65-91-129	71-100-141	76-108-152
<b>DL-5015</b>	CFM	1779	2668	3557	4447	5336	6225
	Total Pressure	0.03	0.062	0.12	0.19	0.248	0.34
	NC	<20	22	32	40	46	51
	Projection	46-65-91	56-79-112	65-91-128	72-102-144	79-112-158	85-121-170
<b>DL-6015</b>	CFM	2139	3208	4278	5347	6417	7486
	Total Pressure	0.034	0.072	0.13	0.21	0.29	0.37
	NC	<20	23	33	41	47	52
	Projection	50-71-100	61-86-122	71-100-142	79-112-158	86-122-173	93-132-187
<b>DL-7015</b>	CFM	2499	3749	4998	6248	7498	8747
	Total Pressure	0.035	0.078	0.14	0.23	0.313	0.40
	NC	<20	24	34	41	48	53
	Projection	54-77-108	66-94-132	77-108-153	85-121-170	94-132-187	101-143-202

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.