

DRUM LOUVER

DRL series



APPLICATION

The DRL series are designed to cover large enclosed spaces (shopping malls, warehouses, factories ...) that requires long or short throw patterns and trajectory control, this feature is provided by a moving drum whereas the blades can be adjusted apart.

The KBE Drum louver can supply air to areas that cannot be provided by conventional outlets due to architectural or structural conditions.

FEATURED STANDARD CONSTRUCTION

•FRAME:

Constructed from heavy extruded aluminum with 1^{27/64} (36 mm) flange face border with a 1^{3/16}" (30mm) overlap margin.

•DRUM:

- Constructed from 1.6 mm high quality extruded aluminium.
- Constructed from 1.2 mm high quality extruded aluminium for 6" and 8" size.
- The drum can be adjusted on a horizontal axis to direct the air throw in the chosen direction from 0 to 30° degree up or down.

•BLADES:

- Blades are made with extruded aluminum flanges.
- Blades can be adjusted individually on the vertical axis.

•GASKET:

- Foam Gasket is fixed on the back of the frame.

•NYLON BRUSH:

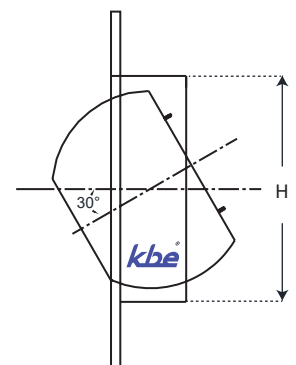
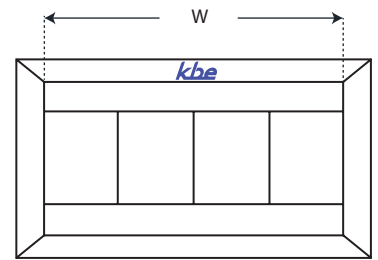
- Nylon side brush seal is fixed around the drum.

•FINISH:

- RAL9010.

•SIZES:

- Minimum Sizes: 5" x 5"
- Maximum Sizes: 60" x 14"



OPTIONS

- Opposed blade damper (OBD) can be fixed on the drum louver.
- Plenum Box can be added.
- Mill finish (brut), all type of RAL finishing.

NB : 5 mm Clearance is deducted from your order size.



MODEL DRL

DRUM ROTO LOUVER

PERFORMANCE DATA

CFM	Listed Sizes (Inches)	9" x 6"			12" x 6"			18" x 6"			24" x 6"		
	Duct Opening Area (Sq. Ft.)	0.50			0.65			0.94			1.23		
	Deflection	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Ak Outlet Area (Sq. Ft.)	.17	.16	.13	.23	.21	.18	.35	.32	.26	.47	.41	.35
100	Outlet Velocity (fpm)	590	625	770									
	Throw in Feet @ Vt = 150 fpm	8	7	6									
	Pt Inches W.G.	.021	.024	.036									
	NC	<	<	<									
200	Outlet Velocity (fpm)	1175	1250	1540	870	950	1110	570	625	770			
	Throw in Feet @ Vt = 150 fpm	14	12	10	12	10	8	10	8	7			
	Pt Inches W.G.	.086	.097	.148	.047	.056	.076	.020	.024	.036			
	NC	<	<	<	<	<	<	<	<	<			
300	Outlet Velocity (fpm)	1765	1875	2305	1305	1430	1665	855	935	1150	635	730	855
	Throw in Feet @ Vt = 150 fpm	21	18	15	19	16	13	17	14	12	16	14	11
	Pt Inches W.G.	.194	.219	.331	.106	.127	.173	.045	.054	.082	.025	.033	.045
	NC	22	26	31	<	<	23	<	<	<	<	<	<
400	Outlet Velocity (fpm)				1740	1905	2200	1140	1250	1535	850	975	1140
	Throw in Feet @ Vt = 150 fpm				24	20	17	23	19	16	21	18	15
	Pt Inches W.G.				.189	.226	.302	.081	.097	.147	.045	.059	.081
	NC				23	27	32	<	<	22	<	<	<
500	Outlet Velocity (fpm)							1425	1560	1920	1060	1220	1425
	Throw in Feet @ Vt = 150 fpm							27	23	19	25	21	17
	Pt Inches W.G.							.126	.152	.229	.070	.092	.026
	NC							20	24	29	<	<	22
600	Outlet Velocity (fpm)							1715	1875	2305	1275	1460	1715
	Throw in Feet @ Vt = 150 fpm							30	25	21	28	24	20
	Pt Inches W.G.							.183	.219	.331	.101	.133	.183
	NC							25	29	34	<	22	27
700	Outlet Velocity (fpm)							2000	2185	2690	1490	1705	2000
	Throw in Feet @ Vt = 150 fpm							33	28	23	31	26	22
	Pt Inches W.G.							.249	.298	.451	.138	.181	.249
	NC							30	34	39	23	27	32
800	Outlet Velocity (fpm)										1700	1950	2285
	Throw in Feet @ Vt = 150 fpm										34	29	24
	Pt Inches W.G.										.180	.237	.325
	NC										27	31	36
900	Outlet Velocity (fpm)										1915	2195	2570
	Throw in Feet @ Vt = 150 fpm										38	32	27
	Pt Inches W.G.										.228	.300	.412
	NC										30	34	39



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PERFORMANCE DATA

CFM	Listed Sizes (Inches)	30" x 6"			36" x 6"			48" x 6"			60" x 6"		
	Duct Opening Area (Sq. Ft.)	1.52			1.81			2.40			2.98		
	Deflection	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Ak Outlet Area (Sq. Ft.)	.59	.52	.44	.72	.62	.55	.94	.83	.70	1.17	1.05	.88
400	Outlet Velocity (fpm)	675	770	910									
	Throw in Feet @ Vt = 150 fpm	18	15	13									
	Pt Inches W.G.	.028	.036	.052									
	NC	<	<	<									
500	Outlet Velocity (fpm)	845	960	1135	695	805	910						
	Throw in Feet @ Vt = 150 fpm	24	20	17	22	19	15						
	Pt Inches W.G.	.044	.057	.080	.030	.040	.052						
	NC	<	<	<	<	<	<						
600	Outlet Velocity (fpm)	1015	1150	1360	850	965	1090	635	720	855			
	Throw in Feet @ Vt = 150 fpm	28	24	20	26	22	18	25	21	17			
	Pt Inches W.G.	.064	.082	.115	.043	.058	.074	.025	.032	.045			
	NC	<	<	22	<	<	<	<	<	<			
700	Outlet Velocity (fpm)	1185	1345	1590	970	1130	1270	745	840	1000			
	Throw in Feet @ Vt = 150 fpm	32	27	19	30	25	21	29	25	20			
	Pt Inches W.G.	.087	.113	.158	.058	.079	.100	.034	.044	.062			
	NC	<	22	27	<	<	<	<	<	<			
800	Outlet Velocity (fpm)	1355	1535	1815	1110	1290	1455	850	960	1140	680	760	910
	Throw in Feet @ Vt = 150 fpm	33	29	24	32	27	22	31	26	22	30	25	21
	Pt Inches W.G.	.114	.147	.205	.076	.103	.132	.045	.057	.081	.028	.036	.052
	NC	22	26	31	<	22	27	<	<	<	<	<	<
1000	Outlet Velocity (fpm)	1695	1920	2270	1385	1610	1820	1060	1205	1425	855	950	1135
	Throw in Feet @ Vt = 150 fpm	40	34	28	38	32	27	37	31	26	36	31	25
	Pt Inches W.G.	.179	.229	.321	.119	.162	.206	.070	.090	.126	.045	.056	.080
	NC	29	33	38	25	29	34	<	<	25	<	<	<
1200	Outlet Velocity (fpm)				1665	1935	2180	1275	1445	1715	1025	1140	1360
	Throw in Feet @ Vt = 150 fpm				43	36	30	42	36	29	41	35	29
	Pt Inches W.G.				.173	.233	.298	.101	.130	.183	.065	.081	.115
	NC				30	34	39	21	25	30	<	20	25
1400	Outlet Velocity (fpm)				1945	2255	2545	1490	1685	2000	1195	1330	1590
	Throw in Feet @ Vt = 150 fpm				48	41	34	47	40	33	46	39	32
	Pt Inches W.G.				.235	.317	.404	.138	.177	.249	.089	.110	.158
	NC				35	39	44	26	30	35	21	25	30
1600	Outlet Velocity (fpm)							1700	1925	2285	1365	1520	1815
	Throw in Feet @ Vt = 150 fpm							50	42	35	49	42	34
	Pt Inches W.G.							.180	.231	.325	.116	.144	.205
	NC							30	34	39	25	29	34
1800	Outlet Velocity (fpm)							1915	2165	2570	1535	1715	2045
	Throw in Feet @ Vt = 150 fpm							53	45	37	52	44	36
	Pt Inches W.G.							.228	.292	.412	.147	.183	.260
	NC							34	38	43	29	33	38
2000	Outlet Velocity (fpm)										1710	1905	2270
	Throw in Feet @ Vt = 150 fpm										56	48	39
	Pt Inches W.G.										.182	.226	.321
	NC										32	36	41



MODEL DRL

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PERFORMANCE DATA

CFM	Listed Sizes (Inches)			20 x 10			26 x 10			30 x 10			36 x 10		
	Duct Opening Area (Sq. Ft.)			1.60			1.97			2.35			2.73		
	Deflection			0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
Ak Outlet Area (Sq. Ft.)			.68	.60	.51	.85	.75	.64	1.05	.9	.76	1.20	1.05	.90	
400	Outlet Velocity (fpm)			590	665	785									
	Throw in Feet @ Vt = 150 fpm			20	17	14									
	Pt Inches W.G.			.021	.027	.038									
	NC			<	<	<									
600	Outlet Velocity (fpm)			880	1000	1175	705	800	935	570	665	790			
	Throw in Feet @ Vt = 150 fpm			27	23	19	26	22	18	23	19	16			
	Pt Inches W.G.			.048	.062	.086	.030	.039	.054	.020	.027	.039			
	NC			<	<	<	<	<	<	<	<	<			
800	Outlet Velocity (fpm)			1175	1336	1570	940	1065	1250	760	890	1050	665	760	890
	Throw in Feet @ Vt = 150 fpm			33	28	23	32	27	22	29	25	20	27	23	19
	Pt Inches W.G.			.086	.111	.154	.055	.070	.097	.036	.049	.068	.027	.036	.049
	NC			<	23	28	<	<	21	<	<	<	<	<	<
1000	Outlet Velocity (fpm)			1470	1665	1960	1175	1335	1560	950	1110	1315	835	950	1110
	Throw in Feet @ Vt = 150 fpm			39	33	27	38	32	27	35	30	24	33	28	23
	Pt Inches W.G.			.135	.173	.239	.086	.111	.152	.056	.076	.107	.043	.056	.076
	NC			28	32	37	21	25	30	<	<	24	<	<	20
1200	Outlet Velocity (fpm)			1765	2000	2350	1410	1600	1875	1140	1335	1580	1000	1140	1335
	Throw in Feet @ Vt = 150 fpm			43	36	30	42	36	29	39	33	27	37	31	26
	Pt Inches W.G.			.194	.249	.344	.124	.159	.219	.081	.111	.156	.062	.081	.111
	NC			35	39	44	28	32	37	22	26	31	<	22	27
1400	Outlet Velocity (fpm)						1645	1865	2185	1335	1555	1840	1165	1335	1555
	Throw in Feet @ Vt = 150 fpm						47	40	33	44	37	31	42	36	29
	Pt Inches W.G.						.169	.216	.298	.111	.151	.211	.085	.111	.151
	NC						34	38	43	28	32	37	24	28	33
1600	Outlet Velocity (fpm)						1880	2135	2500	1525	1775	2105	1335	1525	1775
	Throw in Feet @ Vt = 150 fpm						50	42	35	47	37	33	45	38	31
	Pt Inches W.G.						.221	.284	.389	.145	.197	.276	.111	.145	.197
	NC						39	43	48	33	37	42	29	33	38
1800	Outlet Velocity (fpm)									1715	2000	2370	1500	1715	2000
	Throw in Feet @ Vt = 150 fpm									52	44	36	50	42	35
	Pt Inches W.G.									.183	.249	.350	.140	.183	.249
	NC									38	42	47	33	37	42
2000	Outlet Velocity (fpm)									1905	2220	2630	1665	1905	2220
	Throw in Feet @ Vt = 150 fpm									55	47	38	53	45	37
	Pt Inches W.G.									.226	.307	.431	.173	.226	.307
	NC									42	46	51	37	41	46
2250	Outlet Velocity (fpm)												1875	2140	2500
	Throw in Feet @ Vt = 150 fpm												59	50	41
	Pt Inches W.G.												.219	.285	.389
	NC												42	46	51



MODEL DRL

DRUM ROTO LOUVER

PERFORMANCE DATA

CFM	Listed Sizes (Inches)	40 x 10			50 x 10			60 x 10			70 x 10		
	Duct Opening Area (Sq. Ft.)	3.10			3.80			4.60			5.30		
	Deflection	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Ak Outlet Area (Sq. Ft.)	1.35	1.20	1.00	1.70	1.50	1.30	2.05	1.85	1.55	2.40	2.15	1.80
800	Outlet Velocity (fpm)	590	665	800									
	Throw in Feet @ Vt = 150 fpm	26	22	18									
	Pt Inches W.G.	.021	.027	.039									
	NC	<	<	<									
1000	Outlet Velocity (fpm)	740	835	1000	590	665	770						
	Throw in Feet @ Vt = 150 fpm	32	28	23	31	26	22						
	Pt Inches W.G.	.034	.043	.062	.021	.027	.036						
	NC	<	<	<	<	<	<						
1200	Outlet Velocity (fpm)	890	1000	1200	705	800	925	585	650	775			
	Throw in Feet @ Vt = 150 fpm	36	31	25	34	29	24	32	27	22			
	Pt Inches W.G.	.049	.062	.089	.030	.039	.053	.021	.026	.037			
	NC	<	<	22	<	<	<	<	<	<			
1400	Outlet Velocity (fpm)	1035	1165	1400	825	935	1075	680	755	905	585	650	775
	Throw in Feet @ Vt = 150 fpm	40	34	28	38	32	27	36	31	25	34	29	24
	Pt Inches W.G.	.067	.084	.122	.042	.054	.072	.028	.035	.051	.021	.026	.037
	NC	<	23	28	<	<	21	<	<	<	<	<	<
1600	Outlet Velocity (fpm)	1185	1335	1600	940	1065	1230	780	865	1030	665	745	890
	Throw in Feet @ Vt = 150 fpm	44	37	31	42	36	29	40	34	28	38	32	27
	Pt Inches W.G.	.087	.111	.159	.055	.070	.094	.038	.046	.066	.027	.034	.049
	NC	24	28	33	<	21	26	<	<	21	<	<	<
1800	Outlet Velocity (fpm)	1335	1500	1800	1060	1200	1385	880	970	1160	750	835	1000
	Throw in Feet @ Vt = 150 fpm	47	40	33	45	38	31	43	36	30	41	35	29
	Pt Inches W.G.	.111	.140	.201	.070	.089	.119	.048	.058	.083	.035	.043	.062
	NC	28	32	37	22	26	31	<	20	25	<	<	20
2000	Outlet Velocity (fpm)	1480	1665	2000	1175	1335	1540	975	1080	1290	835	930	1110
	Throw in Feet @ Vt = 150 fpm	51	43	36	49	42	34	47	40	33	45	38	31
	Pt Inches W.G.	.137	.173	.249	.086	.111	.148	.059	.072	.103	.043	.053	.076
	NC	32	36	41	26	30	35	20	24	29	<	<	24
2250	Outlet Velocity (fpm)	1665	1875	2250	1325	1500	1730	1095	1215	1450	935	1045	1250
	Throw in Feet @ Vt = 150 fpm	55	47	38	53	45	37	51	43	36	49	42	34
	Pt Inches W.G.	.173	.219	.315	.109	.140	.186	.074	.092	.131	.054	.068	.097
	NC	37	41	46	31	35	40	25	29	34	20	24	29
2500	Outlet Velocity (fpm)	1850	2085	2500	1470	1665	1925	1220	1350	1610	1040	1160	1390
	Throw in Feet @ Vt = 150 fpm	60	51	42	58	49	41	56	48	39	54	46	38
	Pt Inches W.G.	.213	.271	.389	.135	.173	.231	.092	.113	.162	.067	.083	.120
	NC	41	45	50	35	39	44	29	33	38	24	28	33
3000	Outlet Velocity (fpm)				1765	2000	2305	1465	1620	1935	1250	1395	1665
	Throw in Feet @ Vt = 150 fpm				65	55	45	63	53	44	61	52	43
	Pt Inches W.G.				.194	.249	.331	.134	.164	.233	.097	.121	.173
	NC				42	46	51	36	40	45	31	35	40
3500	Outlet Velocity (fpm)							1705	1890	2260	1460	1625	1945
	Throw in Feet @ Vt = 150 fpm							69	59	48	67	57	47
	Pt Inches W.G.							.181	.222	.318	.133	.165	.235
	NC							42	46	51	37	41	46
3750	Outlet Velocity (fpm)							1830	2025	2420	1560	1745	2085
	Throw in Feet @ Vt = 150 fpm							72	61	50	69	59	48
	Pt Inches W.G.							.208	.255	.365	.152	.190	.271
	NC							44	48	53	39	43	48
4000	Outlet Velocity (fpm)							1950	2160	2580	1665	1860	2220
	Throw in Feet @ Vt = 150 fpm							77	65	54	74	63	52
	Pt Inches W.G.							.237	.291	.415	.173	.215	.307
	NC							47	51	56	42	46	51



MODEL DRL

DRUM ROTO LOUVER

PERFORMANCE DATA

CFM	Listed Sizes (Inches)	20 x 11			26 x 11			32 x 11			36 x 11		
	Duct Opening Area (Sq. Ft.)	1.85			2.29			2.83			3.37		
	Deflection	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Ak Outlet Area (Sq. Ft.)	.69	.61	.52	.87	.77	.64	1.04	.89	.75	1.21	1.06	.90
400	Outlet Velocity (fpm)	580	655	770									
	Throw in Feet @ Vt = 150 fpm	12	10	8									
	Pt Inches W.G.	.020	.026	.036									
	NC	<	<	<									
600	Outlet Velocity (fpm)	870	985	1155	690	780	935	575	675	800	495	565	665
	Throw in Feet @ Vt = 150 fpm	17	14	12	16	14	11	15	13	10	14	12	10
	Pt Inches W.G.	.047	.060	.083	.029	.038	.054	.020	.028	.039	.015	.019	.027
	NC	<	<	<	<	<	<	<	<	<	<	<	<
800	Outlet Velocity (fpm)	1160	1310	1540	920	1040	1250	770	900	1065	660	755	890
	Throw in Feet @ Vt = 150 fpm	23	19	16	22	19	15	21	18	15	20	17	14
	Pt Inches W.G.	.083	.107	.148	.053	.067	.097	.036	.050	.070	.027	.035	.049
	NC	<	20	25	<	<	<	<	<	<	<	<	<
1000	Outlet Velocity (fpm)	1450	1640	1925	1150	1300	1560	960	1125	1335	825	945	1110
	Throw in Feet @ Vt = 150 fpm	29	25	20	28	24	20	27	23	19	26	22	18
	Pt Inches W.G.	.131	.167	.231	.082	.105	.152	.057	.078	.111	.042	.055	.076
	NC	23	27	32	<	21	26	<	<	<	<	<	<
1200	Outlet Velocity (fpm)	1740	1965	2305	1380	1560	1875	1155	1350	1600	990	1130	1335
	Throw in Feet @ Vt = 150 fpm	35	30	24	33	28	23	32	27	22	30	25	21
	Pt Inches W.G.	.189	.241	.331	.118	.152	.219	.083	.113	.159	.061	.079	.111
	NC	28	32	37	22	26	31	<	21	26	<	<	22
1400	Outlet Velocity (fpm)				1610	1820	2185	1345	1575	1865	1155	1320	1555
	Throw in Feet @ Vt = 150 fpm				37	31	26	35	41	24	33	28	23
	Pt Inches W.G.				.162	.206	.298	.113	.155	.216	.083	.108	.151
	NC				27	31	36	22	26	31	<	22	27
1600	Outlet Velocity (fpm)				1840	2075	2500	1540	1795	2135	1320	1510	1775
	Throw in Feet @ Vt = 150 fpm				43	36	30	40	34	28	37	31	26
	Pt Inches W.G.				.211	.268	.389	.148	.201	.284	.108	.142	.197
	NC				31	35	40	26	30	35	23	27	32
1800	Outlet Velocity (fpm)							1730	2020	2400	1485	1700	2000
	Throw in Feet @ Vt = 150 fpm							46	39	32	44	37	31
	Pt Inches W.G.							.186	.254	.359	.137	.180	.249
	NC							29	33	38	26	30	35
2000	Outlet Velocity (fpm)							1925	2245	2665	1650	1885	2220
	Throw in Feet @ Vt = 150 fpm							50	42	35	48	41	34
	Pt Inches W.G.							.231	.314	.443	.170	.221	.307
	NC							32	36	41	29	33	38
2250	Outlet Velocity (fpm)										1860	2120	2500
	Throw in Feet @ Vt = 150 fpm										54	46	38
	Pt Inches W.G.										.215	.280	.389
	NC										32	36	41



MODEL DRL

DRUM ROTO LOUVER

PERFORMANCE DATA

CFM	Listed Sizes (Inches)	40 x 11			50 x 11			60 x 11			70 x 11		
	Duct Opening Area (Sq. Ft.)	3.59			4.45			5.32			6.19		
	Deflection	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Ak Outlet Area (Sq. Ft.)	1.38	1.23	1.02	1.72	1.53	1.24	2.09	1.88	1.57	2.41	2.17	1.81
800	Outlet Velocity (fpm)	580	650	785									
	Throw in Feet @ Vt = 150 fpm	19	16	13									
	Pt Inches W.G.	.020	.026	.038									
	NC	<	<	<									
1000	Outlet Velocity (fpm)	725	815	980	580	655	805						
	Throw in Feet @ Vt = 150 fpm	23	19	16	21	18	15						
	Pt Inches W.G.	.032	.041	.059	.020	.026	.040						
	NC	<	<	<	<	<	<						
1200	Outlet Velocity (fpm)	870	975	1175	695	785	965	575	640	765			
	Throw in Feet @ Vt = 150 fpm	25	21	17	23	19	16	21	18	15			
	Pt Inches W.G.	.047	.059	.086	.030	.038	.058	.020	.025	.036			
	NC	<	<	<	<	<	<	<	<	<			
1400	Outlet Velocity (fpm)	1015	1140	1370	810	915	1130	675	745	890	580	645	775
	Throw in Feet @ Vt = 150 fpm	27	23	19	25	21	17	23	19	16	22	19	15
	Pt Inches W.G.	.064	.081	.117	.040	.052	.079	.028	.034	.049	.020	.025	.037
	NC	<	<	24	<	<	22	<	<	<	<	<	<
1600	Outlet Velocity (fpm)	1160	1300	1570	925	1045	1290	770	850	1020	660	735	885
	Throw in Feet @ Vt = 150 fpm	31	26	22	30	25	21	28	24	20	26	22	18
	Pt Inches W.G.	.083	.105	.154	.053	.068	.103	.036	.045	.064	.027	.033	.048
	NC	<	23	28	<	<	23	<	<	<	<	<	<
1800	Outlet Velocity (fpm)	1305	1465	1765	1040	1175	1450	885	955	1145	745	830	995
	Throw in Feet @ Vt = 150 fpm	40	34	28	38	32	27	37	31	26	35	30	24
	Pt Inches W.G.	.106	.134	.194	.067	.086	.131	.046	.057	.082	.034	.043	.061
	NC	22	26	31	<	21	26	<	<	<	21	<	<
2000	Outlet Velocity (fpm)	1450	1625	1960	1155	1305	1610	960	1065	1275	825	920	1105
	Throw in Feet @ Vt = 150 fpm	45	38	31	41	35	29	39	33	27	37	31	26
	Pt Inches W.G.	.131	.165	.239	.083	.106	.162	.057	.070	.101	.042	.053	.076
	NC	25	29	34	20	24	29	<	<	24	<	<	20
2250	Outlet Velocity (fpm)	1630	1830	2205	1300	1470	1815	1080	1195	1435	930	1035	1245
	Throw in Feet @ Vt = 150 fpm	50	42	35	46	39	32	44	37	31	42	36	29
	Pt Inches W.G.	.166	.208	.303	.105	.135	.205	.072	.089	.128	.053	.067	.096
	NC	29	33	38	24	28	33	<	23	28	<	<	24
2500	Outlet Velocity (fpm)	1810	2030	2450	1445	1635	2015	1200	1330	1590	1035	1150	1380
	Throw in Feet @ Vt = 150 fpm	54	46	38	50	42	35	48	41	34	46	39	32
	Pt Inches W.G.	.204	.256	.374	.130	.166	.253	.089	.110	.158	.067	.082	.118
	NC	32	36	41	27	31	36	22	26	31	<	22	27
3000	Outlet Velocity (fpm)				1735	1960	2420	1440	1595	1910	1240	1380	1655
	Throw in Feet @ Vt = 150 fpm				60	51	42	56	48	39	54	46	38
	Pt Inches W.G.				.187	.239	.365	.129	.158	.227	.095	.118	.171
	NC				32	36	41	27	31	36	23	27	32
3500	Outlet Velocity (fpm)							1680	1860	2230	1445	1610	1935
	Throw in Feet @ Vt = 150 fpm							64	54	45	62	53	43
	Pt Inches W.G.							.176	.215	.310	.130	.162	.233
	NC							32	36	41	28	32	37
4000	Outlet Velocity (fpm)							1925	2125	2545	1650	1845	2210
	Throw in Feet @ Vt = 150 fpm							72	61	50	70	59	49
	Pt Inches W.G.							.231	.281	.404	.170	.212	.304
	NC							36	40	45	32	36	41
4500	Outlet Velocity (fpm)										1860	2075	2485
	Throw in Feet @ Vt = 150 fpm										76	65	53
	Pt Inches W.G.										.215	.268	.384
	NC										35	39	44



MODEL DRL

DRUM ROTO LOUVER

PERFORMANCE DATA

CFM	Listed Sizes (Inches)	40 x 14			50 x 14			60 x 14			70 x 14		
	Duct Opening Area (Sq. Ft.)	4.45			5.52			6.60			7.67		
	Deflection	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Ak Outlet Area (Sq. Ft.)	2.17	1.93	1.60	2.69	2.40	2.03	3.21	2.83	2.36	3.68	3.30	2.78
1500	Outlet Velocity (fpm)	690	775	935									
	Throw in Feet @ Vt = 150 fpm	25	21	17									
	Pt Inches W.G.	.029	.037	.054									
	NC	<	<	<									
1750	Outlet Velocity (fpm)	805	905	1095	650	730	860						
	Throw in Feet @ Vt = 150 fpm	29	25	20	27	23	19						
	Pt Inches W.G.	.040	.051	.074	.026	.033	.046						
	NC	<	<	<	<	<	<						
2000	Outlet Velocity (fpm)	920	1035	1250	745	835	985	625	705	845			
	Throw in Feet @ Vt = 150 fpm	33	28	23	31	26	22	29	25	20			
	Pt Inches W.G.	.053	.067	.097	.034	.043	.060	.024	.030	.044			
	NC	<	20	25	<	<	20	<	<	<			
2250	Outlet Velocity (fpm)	1035	1165	1405	835	935	1110	700	795	955	610	680	810
	Throw in Feet @ Vt = 150 fpm	37	31	26	35	30	24	33	28	23	32	27	22
	Pt Inches W.G.	.067	.084	.123	.043	.054	.076	.030	.039	.057	.023	.028	.040
	NC	20	24	29	<	<	23	<	<	<	<	<	<
2500	Outlet Velocity (fpm)	1150	1295	1560	930	1040	1230	780	885	1060	680	755	900
	Throw in Feet @ Vt = 150 fpm	41	35	29	39	33	27	37	31	26	36	31	25
	Pt Inches W.G.	.082	.104	.152	.053	.067	.094	.038	.048	.070	.028	.035	.050
	NC	23	27	32	<	21	26	<	<	22	<	<	<
3000	Outlet Velocity (fpm)	1380	1555	1875	1115	1250	1475	935	1060	1270	815	910	1080
	Throw in Feet @ Vt = 150 fpm	49	42	34	46	39	32	44	37	31	43	36	30
	Pt Inches W.G.	.118	.151	.219	.077	.097	.136	.054	.070	.100	.041	.052	.072
	NC	29	33	38	23	27	32	<	22	27	<	<	24
3250	Outlet Velocity (fpm)	1495	1685	2030	1210	1355	1600	1010	1150	1375	885	985	1170
	Throw in Feet @ Vt = 150 fpm	53	45	37	50	42	35	48	41	34	46	39	32
	Pt Inches W.G.	.139	.177	.256	.091	.114	.159	.063	.082	.117	.048	.060	.085
	NC	31	35	40	25	29	34	21	25	30	<	21	26
3500	Outlet Velocity (fpm)	1610	1815	2185	1300	1460	1725	1090	1235	1485	950	1060	1260
	Throw in Feet @ Vt = 150 fpm	57	48	40	54	46	38	52	44	36	50	42	35
	Pt Inches W.G.	.162	.205	.298	.105	.133	.185	.074	.095	.137	.056	.070	.098
	NC	33	37	42	27	31	36	23	27	32	23	23	28
4000	Outlet Velocity (fpm)	1845	2070	2500	1485	1665	1970	1245	1415	1695	1085	1210	1440
	Throw in Feet @ Vt = 150 fpm	66	56	46	62	53	43	59	50	41	57	48	40
	Pt Inches W.G.	.212	.267	.389	.137	.173	.242	.096	.124	.179	.073	.091	.129
	NC	37	41	46	31	35	40	27	31	36	23	27	32
6000	Outlet Velocity (fpm)										1630	1820	2160
	Throw in Feet @ Vt = 150 fpm										85	72	59
	Pt Inches W.G.										.166	.206	.291
	NC										35	39	44

Performance Notes for Series DRL

All data are tested in accordance with ANSI/ASHRAE 70-1991

Definition of Units:

- CFM - Cubic Feet per Minute (air)
- Out Vel - Velocity of air stream in Feet Per Minute
- Ps - Static Pressure = Pt - Pv (inches of water column)
- Pt - Total Pressure (inches of water column)
- Throw - Non-isothermal horizontal throw (supply air temperature 20°F colder than average room air temperature) values are for 150 fpm velocities for 0°, 15°, and 30° spread
- NC - Noise criterion, sound pressure level. NC ratings are based on sound power (Lw) RE: 10E-12 watts minus a 10 dB room attenuation in all octave bands
- Ak - Area Factors

Outlet Velocity at 0° deflection should not exceed 2000 FPM. Units should not be selected above catalogue flow rates.

Vt (fpm) Terminal Velocity	50	75	80	100	125	150	200	250
Mult Factor	3.0	2.0	1.8	1.5	1.2	1.0	.75	.6

CFM	=	Neck Velocity (fpm)
Neck Area in Square Ft		
$\left(\frac{\{\text{Neck Velocity (fpm)}\}^2}{4005} \right)$	=	Pv (Velocity Pressure) in. w.c.

ORDERING INFORMATION

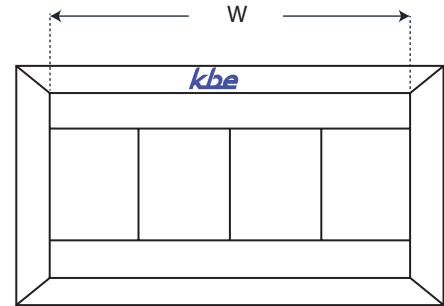
MODEL FINISHING WIDTH HEIGHT

DRL - RAL9010 - -- X --



RAL9010 : Standard
 RAL"num": Other Ral color
 -- : Mill Finish (Brut)

N.B: - For more information, please check the submittal sheet

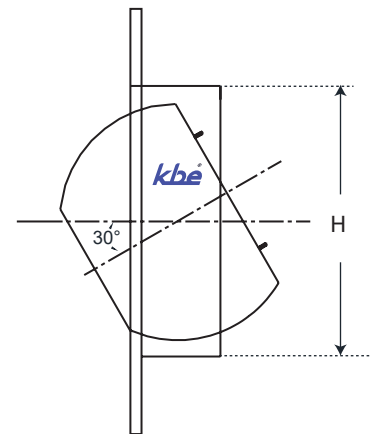


•Sizes:

- Minimum Sizes: 5" x 5"
- Maximum Sizes: 60" x 14"

•Options:

- Opposed blade damper (OBD) can be fixed on the drum louver.
- Plenum Box can be added.
- All type of RAL finishing.



NB : 5 mm Clearance is deducted from your order size.