

US-DL / US-DL-SV - DRUM AT 0° DEFLECTION AND NO SPREAD

6" HEIGHT

Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000
	Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
	Total Pressure	0.050	0.080	0.130	0.160	0.250	0.320	0.410	0.510
12 x 6	Airflow, cfm	160	215	270	325	380	430	485	540
	NC (Noise Criteria)	-	12	19	25	30	33	37	40
	Throw	7-10-19	9-14-22	12-18-25	14-19-28	17-21-30	18-22-32	19-24-34	20-25-35
18 x 6	Airflow, cfm	240	325	405	485	565	650	730	810
	NC (Noise Criteria)	-	14	21	27	32	35	39	42
	Throw	9-13-24	12-17-26	14-22-30	17-24-33	21-26-36	23-28-38	25-30-40	26-32-44
24 x 6	Airflow, cfm	325	430	540	650	755	865	972	1040
	NC (Noise Criteria)	-	17	23	29	34	37	41	44
	Throw	10-15-28	13-20-32	17-25-35	20-28-39	23-30-42	26-32-45	27-34-48	28-35-49
36 x 6	Airflow, cfm	485	650	810	970	1135	1295	1460	1620
	NC (Noise Criteria)	10	18	24	30	35	38	42	45
	Throw	12-19-34	16-24-37	21-30-42	24-34-47	29-37-51	34-40-53	35-42-56	37-46-62

10" HEIGHT

Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000
	Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
	Total Pressure	0.030	0.050	0.090	0.120	0.170	0.220	0.280	0.340
24 x 10	Airflow, cfm	525	700	875	1050	1225	1400	1575	1750
	NC (Noise Criteria)	10	18	25	30	34	39	42	46
	Throw	12-18-34	18-28-40	21-33-44	28-37-49	31-39-53	35-41-56	37-43-60	39-48-65
30 x 10	Airflow, cfm	657	876	1095	1314	1535	1750	1970	2190
	NC (Noise Criteria)	11	20	26	31	36	41	44	47
	Throw	14-21-40	19-28-43	24-35-49	28-40-55	34-43-59	39-46-62	41-48-65	43-53-72
36 x 10	Airflow, cfm	790	1050	1315	1580	1840	2105	2365	2630
	NC (Noise Criteria)	13	21	28	33	38	41	45	48
	Throw	15-23-44	21-31-47	26-39-53	31-44-60	37-47-65	42-50-68	45-53-71	47-58-79
44 x 10	Airflow, cfm	1060	1400	1750	2100	2450	2800	3150	3500
	NC (Noise Criteria)	14	22	29	34	39	42	46	49
	Throw	17-26-50	24-35-54	30-45-62	35-50-69	43-54-75	49-58-78	52-60-82	54-67-92

12" HEIGHT

Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000
	Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
	Total Pressure	0.030	0.050	0.090	0.120	0.170	0.220	0.280	0.340
18 x 12	Airflow, cfm	470	625	780	935	1090	1250	1400	1560
	NC (Noise Criteria)	-	18	26	31	35	40	43	46
	Throw	12-18-34	16-24-36	20-30-41	24-34-46	29-37-50	33-39-52	35-41-55	37-45-61
24 x 12	Airflow, cfm	625	830	1040	1250	1455	1665	1870	2030
	NC (Noise Criteria)	12	19	27	32	36	40	44	47
	Throw	14-20-39	19-27-42	23-34-48	27-39-53	33-42-58	37-45-61	40-48-64	42-52-71
36 x 12	Airflow, cfm	940	1250	1560	1875	2185	2500	2810	3125
	NC (Noise Criteria)	13	21	28	33	38	42	45	48
	Throw	17-25-47	23-33-51	29-42-58	33-47-65	40-49-70	46-54-74	48-58-78	51-63-86
48 x 12	Airflow, cfm	1250	1665	2080	2495	2910	3330	3745	4160
	NC (Noise Criteria)	14	22	29	34	39	43	47	49
	Throw	18-28-55	26-39-59	33-49-65	39-55-75	47-59-82	53-63-86	56-67-90	60-73-100

15" HEIGHT

Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000
	Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
Total Pressure	0.020	0.040	0.070	0.100	0.130	0.170	0.220	0.270	
24 x 15	Airflow, cfm	775	1030	1290	1550	1805	2065	2320	2580
	NC (Noise Criteria)	13	21	27	32	37	41	44	47
	Throw	15-22-43	21-30-46	26-38-53	30-43-59	37-46-64	42-50-67	44-53-71	46-58-79
30 x 15	Airflow, cfm	970	1290	1615	1940	2260	2585	2910	3230
	NC (Noise Criteria)	13	22	28	33	38	42	45	49
	Throw	17-25-49	23-34-52	29-43-59	34-49-67	41-52-72	47-56-76	49-60-83	52-65-88
36 x 15	Airflow, cfm	1160	1550	1935	2320	2710	3100	3485	3870
	NC (Noise Criteria)	15	23	29	34	39	43	47	50
	Throw	19-27-53	25-37-57	32-47-65	37-53-72	45-57-79	51-61-83	54-65-86	57-71-96
48 x 15	Airflow, cfm	1550	2065	2580	3100	3610	4130	4645	5160
	NC (Noise Criteria)	16	24	30	35	40	44	48	51
	Throw	21-32-61	30-43-66	37-54-75	43-61-84	52-65-91	59-70-95	63-75-100	66-82-111

PERFORMANCE NOTES

- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006
- Throw values are in feet at terminal velocities of 150, 100 and 50 fpm at isothermal conditions. Throw values were measured with drum at 0° deflection and no spread.
- For an explanation of catalog throw data, see the Engineering Guidelines section of this catalog
- NC values based on octave band 2 to 7 sound power levels minus a room absorption of 10 dB
- Each NC value represents the noise criteria curve that will not be exceeded by the sound pressure in any of the octave bands, 2 through 7, with a room absorption of 10 dB, re 10-12 watts
- Dash (-) in space denotes an NC value of less than 10
- All pressures are given in inches of water
- Velocity pressure is based on inlet duct area and velocity
- To obtain static pressure, subtract velocity pressure from the total pressure
- Listed size is slightly less than the minimum allowed duct dimensions (refer to data page for actual duct dimensions)