

DVRI

Unit Size (W x H)	Inlet Size	Neck Velocity	200	300	400	500	600	700	800
		Velocity Pressure	0.002	0.006	0.010	0.016	0.022	0.031	0.040
24" x 24"	8" Dia.	Airflow, cfm	68	101	135	169	203	237	271
		Total Pressure	0.008	0.017	0.030	0.047	0.068	0.093	0.122
		NC (Noise Criteria)	-	-	-	-	-	11	16
		Adjacent Zone (AZ) Δ5°	4-4	5-6	5-8	6-9	6-11	7-12	7-14
		Adjacent Zone (AZ) Δ10°	4-4	5-6	6-8	7-9	7-11	8-13	8-15
24" x 48"	8" Dia.	Airflow, cfm	68	101	135	169	203	237	271
		Total Pressure	0.004	0.008	0.014	0.023	0.033	0.044	0.058
		NC (Noise Criteria)	-	-	-	-	-	-	-
		Adjacent Zone (AZ) Δ5°	4-4	5-6	5-8	6-9	6-11	7-12	7-14
		Adjacent Zone (AZ) Δ10°	4-4	5-6	6-8	7-9	7-11	8-13	8-15
24" x 79"	10" Dia.	Airflow, cfm	106	160	213	266	319	372	425
		Total Pressure	0.003	0.008	0.014	0.022	0.032	0.043	0.056
		NC (Noise Criteria)	-	-	-	-	-	-	-
		Adjacent Zone (AZ) Δ5°	5-6	6-9	6-12	7-14	8-17	8-19	9-22
		Adjacent Zone (AZ) Δ10°	5-6	6-9	7-12	8-15	9-17	9-20	10-22
36" x 48"	10" Dia.	Airflow, cfm	106	160	213	266	319	372	425
		Total Pressure	0.004	0.008	0.014	0.022	0.032	0.044	0.057
		NC (Noise Criteria)	-	-	-	-	-	-	-
		Adjacent Zone (AZ) Δ5°	5-4	6-6	7-8	8-10	9-12	9-14	10-16
		Adjacent Zone (AZ) Δ10°	6-5	7-7	8-9	9-10	10-12	10-14	11-16
47" x 79"	12" Dia.	Airflow, cfm	154	231	308	385	461	538	615
		Total Pressure	0.003	0.007	0.013	0.020	0.029	0.039	0.051
		NC (Noise Criteria)	-	-	-	-	-	-	-
		Adjacent Zone (AZ) Δ5°	7-5	8-7	9-9	10-12	11-14	12-16	13-18
		Adjacent Zone (AZ) Δ10°	8-5	9-8	10-10	12-12	12-14	13-16	14-18
47" x 79"	24" x 8"	Airflow, cfm	261	392	522	653	783	914	1045
		Total Pressure	0.004	0.009	0.015	0.024	0.034	0.047	0.061
		NC (Noise Criteria)	-	-	-	-	-	-	14
		Adjacent Zone (AZ) Δ5°	9-8	10-12	12-15	13-19	14-22	15-25	16-29
		Adjacent Zone (AZ) Δ10°	10-8	12-12	13-16	14-19	16-23	17-26	18-29
48" x 24"	10" Dia.	Airflow, cfm	106	160	213	266	319	372	425
		Total Pressure	0.006	0.013	0.023	0.036	0.052	0.071	0.092
		NC (Noise Criteria)	-	-	-	-	-	11	15
		Adjacent Zone (AZ) Δ5°	6-4	7-5	8-7	9-8	10-10	10-11	11-12
		Adjacent Zone (AZ) Δ10°	7-4	8-5	9-7	10-8	11-10	11-11	12-13
48" x 36"	10" Dia.	Airflow, cfm	106	160	213	266	319	372	425
		Total Pressure	0.004	0.009	0.015	0.024	0.034	0.047	0.061
		NC (Noise Criteria)	-	-	-	-	-	-	-
		Adjacent Zone (AZ) Δ5°	6-4	7-5	8-7	9-8	10-10	10-11	11-12
		Adjacent Zone (AZ) Δ10°	7-4	8-5	9-7	10-8	11-10	11-11	12-13

DVRI (continued)

Unit Size (W x H)	Inlet Size	Neck Velocity	200	300	400	500	600	700	800
		Velocity Pressure	0.002	0.006	0.010	0.016	0.022	0.031	0.040
60" x 24"	12" Dia.	Airflow, cfm	154	231	308	385	461	538	615
		Total Pressure	0.007	0.016	0.028	0.044	0.064	0.087	0.113
		NC (Noise Criteria)	-	-	-	-	11	16	20
		Adjacent Zone (AZ) $\Delta 5^\circ$	7-4	9-6	10-8	11-10	12-11	13-13	14-15
		Adjacent Zone (AZ) $\Delta 10^\circ$	8-4	10-6	11-8	12-10	13-12	14-13	15-15
60" x 36"	16" Dia.	Airflow, cfm	275	412	550	687	825	962	1100
		Total Pressure	0.007	0.016	0.029	0.045	0.066	0.089	0.117
		NC (Noise Criteria)	-	-	-	-	15	20	24
		Adjacent Zone (AZ) $\Delta 5^\circ$	10-7	11-10	13-13	14-16	15-19	16-22	17-25
		Adjacent Zone (AZ) $\Delta 10^\circ$	11-7	13-11	15-14	16-17	17-20	18-23	20-26

PERFORMANCE NOTES

- The adjacent zone (AZ) is the discharge isovel at 1" above the floor where the terminal velocity is 50 fpm
- Adjacent zone dimensions were obtained from tests conducted in accordance with Nordtest method of aerodynamic testing and rating of low velocity
- Sound and pressure data were obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006
- $\Delta T$  is the "under temperature" which is the difference between room air temperature at 3-1/2 ft above the floor and the supply air temperature
- Throw values shown are distances in feet for temperature differentials of 5°F  $\Delta T$  and 10°F  $\Delta T$  cooling at 50 fpm terminal velocity. The first listed throw value corresponds to the length and the second throw value to the width (see diagram at bottom of page).
- 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 which 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

