

DVIR

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
16" x 16"	10" x 2"	Airflow, cfm	26	39	53	66	79	92	105
		Total Pressure	0.008	0.019	0.034	0.053	0.076	0.103	0.135
		NC (Noise Criteria)	-	-	-	10	16	21	25
		Adjacent Zone (AZ) Δ5°	2-3	2-5	2-7	3-8	3-10	3-11	3-13
		Adjacent Zone (AZ) Δ10°	2-4	3-6	3-7	3-9	4-11	4-13	4-14
16" x 24"	10" x 2"	Airflow, cfm	26	39	53	66	79	92	105
		Total Pressure	0.005	0.011	0.019	0.030	0.043	0.059	0.076
		NC (Noise Criteria)	-	-	-	-	14	19	23
		Adjacent Zone (AZ) Δ5°	2-3	2-5	2-7	3-8	3-10	3-11	3-13
		Adjacent Zone (AZ) Δ10°	2-4	3-6	3-7	3-9	4-11	4-13	4-14
20" x 20"	12" x 2"	Airflow, cfm	32	47	63	79	95	111	126
		Total Pressure	0.005	0.012	0.021	0.033	0.048	0.066	0.085
		NC (Noise Criteria)	-	-	-	-	15	20	24
		Adjacent Zone (AZ) Δ5°	2-3	2-5	3-7	3-8	3-10	4-12	4-13
		Adjacent Zone (AZ) Δ10°	3-4	3-6	4-7	4-9	4-11	5-13	5-14
24" x 24"	14" x 2"	Airflow, cfm	37	55	74	92	111	129	148
		Total Pressure	0.004	0.009	0.017	0.026	0.038	0.051	0.067
		NC (Noise Criteria)	-	-	-	-	14	19	23
		Adjacent Zone (AZ) Δ5°	2-3	3-5	3-7	4-8	4-10	4-12	5-13
		Adjacent Zone (AZ) Δ10°	3-4	4-6	4-8	5-9	5-11	5-13	6-15
24" x 30"	20" x 3"	Airflow, cfm	80	121	161	201	241	282	322
		Total Pressure	0.007	0.017	0.030	0.047	0.068	0.093	0.121
		NC (Noise Criteria)	-	-	-	12	17	22	26
		Adjacent Zone (AZ) Δ5°	3-7	4-11	5-14	5-18	6-21	6-25	7-28
		Adjacent Zone (AZ) Δ10°	4-8	5-12	6-16	7-20	7-23	8-27	8-31
24" x 36"	20" x 3"	Airflow, cfm	80	121	161	201	241	282	322
		Total Pressure	0.005	0.012	0.022	0.034	0.049	0.067	0.087
		NC (Noise Criteria)	-	-	-	11	16	21	25
		Adjacent Zone (AZ) Δ5°	3-7	4-11	5-14	5-18	6-21	6-25	7-28
		Adjacent Zone (AZ) Δ10°	4-8	5-12	6-16	7-20	7-23	8-27	8-31
24" x 48"	20" x 3"	Airflow, cfm	80	121	161	201	241	282	322
		Total Pressure	0.004	0.009	0.017	0.026	0.037	0.051	0.066
		NC (Noise Criteria)	-	-	-	10	15	20	24
		Adjacent Zone (AZ) Δ5°	3-7	4-11	5-14	5-18	6-21	6-25	7-28
		Adjacent Zone (AZ) Δ10°	4-8	5-12	6-16	7-20	7-23	8-27	8-31
30" x 24"	20" x 3"	Airflow, cfm	80	121	161	201	241	282	322
		Total Pressure	0.007	0.017	0.030	0.047	0.068	0.093	0.121
		NC (Noise Criteria)	-	-	-	12	17	22	26
		Adjacent Zone (AZ) Δ5°	4-6	5-9	5-12	6-15	6-18	7-21	7-23
		Adjacent Zone (AZ) Δ10°	5-7	6-10	6-13	7-17	8-20	8-23	9-26
36" x 24"	20" x 3"	Airflow, cfm	80	121	161	201	241	282	322
		Total Pressure	0.005	0.012	0.022	0.034	0.049	0.067	0.087
		NC (Noise Criteria)	-	-	-	11	16	21	25
		Adjacent Zone (AZ) Δ5°	4-5	5-8	6-10	6-13	7-15	7-18	8-20
		Adjacent Zone (AZ) Δ10°	5-6	6-9	7-12	8-14	8-17	9-20	10-23

DVIR (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
48" x 24"	20" x 3"	Airflow, cfm	80	121	161	201	241	282	322
		Total Pressure	0.004	0.010	0.018	0.028	0.040	0.055	0.071
		NC (Noise Criteria)	-	-	-	10	16	20	25
		Adjacent Zone (AZ) $\Delta 5^\circ$	4-4	5-6	6-8	7-10	7-12	8-14	9-16
		Adjacent Zone (AZ) $\Delta 10^\circ$	6-5	7-7	8-9	9-11	9-14	10-16	11-18
60" x 24"	24" x 3"	Airflow, cfm	97	145	193	242	290	338	387
		Total Pressure	0.004	0.009	0.016	0.025	0.036	0.049	0.064
		NC (Noise Criteria)	-	-	-	10	15	20	24
		Adjacent Zone (AZ) $\Delta 5^\circ$	5-4	6-6	7-8	8-10	9-12	10-14	10-16
		Adjacent Zone (AZ) $\Delta 10^\circ$	7-5	8-7	9-9	10-12	11-14	12-16	13-18

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
- ΔT 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 ΔT and 10°F ΔT 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

