



ENGINEERING DATA

DSQ

UNIT SIZE (in.)	INLET SIZE (in.)	NECK VELOCITY (FPM)	AIRFLOW (CFM)	P _D (in. wc)	P _T (in. wc)	NC (Noise Criteria)	Throw Length & Width in Adjacent Zone (AZ), (ft.)	
							Δ5°	Δ10°
24x24	8	200	68	0.002	0.008	-	4 - 4	4 - 4
		300	101	0.006	0.017	-	5 - 6	5 - 6
		400	135	0.010	0.030	-	5 - 8	6 - 8
		500	169	0.016	0.047	-	6 - 9	7 - 9
		600	203	0.022	0.068	-	6 - 11	7 - 11
		700	237	0.031	0.093	11	7 - 12	8 - 13
		800	271	0.040	0.122	16	7 - 14	8 - 15
24x48	8	200	68	0.002	0.004	-	4 - 4	4 - 4
		300	101	0.006	0.008	-	5 - 6	5 - 6
		400	135	0.010	0.014	-	5 - 8	6 - 8
		500	169	0.016	0.023	-	6 - 9	7 - 9
		600	203	0.022	0.033	-	6 - 11	7 - 11
		700	237	0.031	0.044	-	7 - 12	8 - 13
		800	271	0.040	0.058	-	7 - 14	8 - 15
24x79	10	200	106	0.002	0.003	-	5 - 6	5 - 6
		300	160	0.006	0.008	-	6 - 9	6 - 9
		400	213	0.010	0.014	-	6 - 12	7 - 12
		500	266	0.016	0.022	-	7 - 14	8 - 15
		600	319	0.022	0.032	-	8 - 17	9 - 17
		700	372	0.031	0.043	-	8 - 19	9 - 20
		800	425	0.040	0.056	-	9 - 22	10 - 22
36x48	10	200	106	0.002	0.004	-	5 - 4	6 - 5
		300	160	0.006	0.008	-	6 - 6	7 - 7
		400	213	0.010	0.014	-	7 - 8	8 - 9
		500	266	0.016	0.022	-	8 - 10	9 - 10
		600	319	0.022	0.032	-	9 - 12	10 - 12
		700	372	0.031	0.044	-	9 - 14	10 - 14
		800	425	0.040	0.057	-	10 - 16	11 - 16
47x79	12	200	154	0.002	0.003	-	7 - 5	8 - 5
		300	231	0.006	0.007	-	8 - 7	9 - 8
		400	308	0.010	0.013	-	9 - 9	10 - 10
		500	385	0.016	0.020	-	10 - 12	12 - 12
		600	461	0.022	0.029	-	11 - 14	12 - 14
		700	538	0.031	0.039	-	12 - 16	13 - 16
		800	615	0.040	0.051	-	13 - 18	14 - 18

Notes:

1. The adjacent zone (AZ) is the discharge isolevel at 1" above the floor where the terminal velocity is 50 fpm.
2. Tests for sound and pressure conducted in accordance with ASHRAE 70-2006 at isothermal conditions.
3. Tests for AZ conducted in accordance with Nordtest method of aerodynamic testing and rating of low velocity.
4. Tests conducted with straight rigid inlet condition. Other inlet conditions may alter performance.
5. P_D = dynamic (velocity) pressure, P_T = total pressure, inches of water column.
6. NC = Noise Criteria (based on 10db Room attenuation (Re: 10⁻¹² watts) evaluated at 125 through 4000Hz octave bands).
7. ΔT = The temperature difference, measured in °F, between the supply air and the space 3-1/2 feet above the floor.
8. Dash (-) indicates an NC value of less than 10.
9. Throw values are distances in feet at 50 fpm at listed temperature difference (see diagram on page 03).

Displacement Diffusers



ENGINEERING DATA

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UNIT SIZE (in.)	INLET SIZE (in.)	NECK VELOCITY (FPM)	AIRFLOW (CFM)	P _D (in. wc)	P _T (in. wc)	NC (Noise Criteria)	Throw Length & Width in Adjacent Zone (AZ), (ft.)	
							Δ5°	Δ10°
47x79	24x8	200	261	0.002	0.004	-	9 - 8	10 - 8
		300	392	0.006	0.009	-	10 - 12	12 - 12
		400	522	0.010	0.015	-	12 - 15	13 - 16
		500	653	0.016	0.024	-	13 - 19	14 - 19
		600	783	0.022	0.034	-	14 - 22	16 - 23
		700	914	0.031	0.047	-	15 - 25	17 - 26
		800	1045	0.040	0.061	14	16 - 29	18 - 29
48x24	10	200	106	0.002	0.006	-	6 - 4	7 - 4
		300	160	0.006	0.013	-	7 - 5	8 - 5
		400	213	0.010	0.023	-	8 - 7	9 - 7
		500	266	0.016	0.036	-	9 - 8	10 - 8
		600	319	0.022	0.052	-	10 - 10	11 - 10
		700	372	0.031	0.071	11	10 - 11	11 - 11
		800	425	0.040	0.092	15	11 - 12	12 - 13
48x36	10	200	106	0.002	0.004	-	6 - 4	7 - 4
		300	160	0.006	0.009	-	7 - 5	8 - 5
		400	213	0.010	0.015	-	8 - 7	9 - 7
		500	266	0.016	0.024	-	9 - 8	10 - 8
		600	319	0.022	0.034	-	10 - 10	11 - 10
		700	372	0.031	0.047	-	10 - 11	11 - 11
		800	425	0.040	0.061	-	11 - 12	12 - 13
60x24	12	200	154	0.002	0.007	-	7 - 4	8 - 4
		300	231	0.006	0.016	-	9 - 6	10 - 6
		400	308	0.010	0.028	-	10 - 8	11 - 8
		500	385	0.016	0.044	-	11 - 10	12 - 10
		600	461	0.022	0.064	11	12 - 11	13 - 12
		700	538	0.031	0.087	16	13 - 13	14 - 13
		800	615	0.040	0.113	20	14 - 15	15 - 15
60x36	16	200	275	0.002	0.007	-	10 - 7	11 - 7
		300	412	0.006	0.016	-	11 - 10	13 - 11
		400	550	0.010	0.029	-	13 - 13	15 - 14
		500	687	0.016	0.045	-	14 - 16	16 - 17
		600	825	0.022	0.066	15	15 - 19	17 - 20
		700	962	0.031	0.089	20	16 - 22	18 - 23
		800	1100	0.040	0.117	24	17 - 25	20 - 26

Notes:

1. The adjacent zone (AZ) is the discharge isolevel at 1" above the floor where the terminal velocity is 50 fpm.
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Displacement
Diffusers



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DSQ

DSQ - Throw Diagram

L - Length (First Throw Value in Performance Data Tables)

W - Width (Second Throw Value in Performance Data Tables)

