



ENGINEERING DATA

DFX

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°
16x16	10x2	200	26	0.002	0.008	-	2 - 3	2 - 4
		300	39	0.006	0.019	-	2 - 5	3 - 6
		400	53	0.010	0.034	-	2 - 7	3 - 7
		500	66	0.016	0.053	10	3 - 8	3 - 9
		600	79	0.022	0.076	16	3 - 10	4 - 11
		700	92	0.031	0.103	21	3 - 11	4 - 13
		800	105	0.040	0.135	25	3 - 13	4 - 14
16x24	10x2	200	26	0.002	0.005	-	2 - 3	2 - 4
		300	39	0.006	0.011	-	2 - 5	3 - 6
		400	53	0.010	0.019	-	2 - 7	3 - 7
		500	66	0.016	0.030	-	3 - 8	3 - 9
		600	79	0.022	0.043	14	3 - 10	4 - 11
		700	92	0.031	0.059	19	3 - 11	4 - 13
		800	105	0.040	0.076	23	3 - 13	4 - 14
20x20	12x2	200	32	0.002	0.005	-	2 - 3	3 - 4
		300	47	0.006	0.012	-	2 - 5	3 - 6
		400	63	0.010	0.021	-	3 - 7	4 - 7
		500	79	0.016	0.033	-	3 - 8	4 - 9
		600	95	0.022	0.048	15	3 - 10	4 - 11
		700	111	0.031	0.066	20	4 - 12	5 - 13
		800	126	0.040	0.085	24	4 - 13	5 - 14
24x24	14x2	200	37	0.002	0.004	-	2 - 3	3 - 4
		300	55	0.006	0.009	-	3 - 5	4 - 6
		400	74	0.010	0.017	-	3 - 7	4 - 8
		500	92	0.016	0.026	-	4 - 8	5 - 9
		600	111	0.022	0.038	14	4 - 10	5 - 11
		700	129	0.031	0.051	19	4 - 12	5 - 13
		800	148	0.040	0.067	23	5 - 13	6 - 15
24x30	20x3	200	80	0.002	0.007	-	3 - 7	4 - 8
		300	121	0.006	0.017	-	4 - 11	5 - 12
		400	161	0.010	0.030	-	5 - 14	6 - 16
		500	201	0.016	0.047	12	5 - 18	7 - 20
		600	241	0.022	0.068	17	6 - 21	7 - 23
		700	282	0.031	0.093	22	6 - 25	8 - 27
		800	322	0.040	0.121	26	7 - 28	8 - 31

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 04).



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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°
24x36	20x3	200	80	0.002	0.005	-	3 - 7	4 - 8
		300	121	0.006	0.012	-	4 - 11	5 - 12
		400	161	0.010	0.022	-	5 - 14	6 - 16
		500	201	0.016	0.034	11	5 - 18	7 - 20
		600	241	0.022	0.049	16	6 - 21	7 - 23
		700	282	0.031	0.067	21	6 - 25	8 - 27
		800	322	0.040	0.087	25	7 - 28	8 - 31
24x48	20x3	200	80	0.002	0.004	-	3 - 7	4 - 8
		300	121	0.006	0.009	-	4 - 11	5 - 12
		400	161	0.010	0.017	-	5 - 14	6 - 16
		500	201	0.016	0.026	10	5 - 18	7 - 20
		600	241	0.022	0.037	15	6 - 21	7 - 23
		700	282	0.031	0.051	20	6 - 25	8 - 27
		800	322	0.040	0.066	24	7 - 28	8 - 31
30x24	20x3	200	80	0.002	0.007	-	4 - 6	5 - 7
		300	121	0.006	0.017	-	5 - 9	6 - 10
		400	161	0.010	0.030	-	5 - 12	6 - 13
		500	201	0.016	0.047	12	6 - 15	7 - 17
		600	241	0.022	0.068	17	6 - 18	8 - 20
		700	282	0.031	0.093	22	7 - 21	8 - 23
		800	322	0.040	0.121	26	7 - 23	9 - 26
36x24	20x3	200	80	0.002	0.005	-	4 - 5	5 - 6
		300	121	0.006	0.012	-	5 - 8	6 - 9
		400	161	0.010	0.022	-	6 - 10	7 - 12
		500	201	0.016	0.034	11	6 - 13	8 - 14
		600	241	0.022	0.049	16	7 - 15	8 - 17
		700	282	0.031	0.067	21	7 - 18	9 - 20
		800	322	0.040	0.087	25	8 - 20	10 - 23
48x24	20x3	200	80	0.002	0.004	-	4 - 4	6 - 5
		300	121	0.006	0.010	-	5 - 6	7 - 7
		400	161	0.010	0.018	-	6 - 8	8 - 9
		500	201	0.016	0.028	10	7 - 10	9 - 11
		600	241	0.022	0.040	16	7 - 12	9 - 14
		700	282	0.031	0.055	20	8 - 14	10 - 16
		800	322	0.040	0.071	25	9 - 16	11 - 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 04).



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							Δ5°	Δ10°
60x24	24x3	200	97	0.002	0.004	-	5 - 4	7 - 5
		300	145	0.006	0.009	-	6 - 6	8 - 7
		400	193	0.010	0.016	-	7 - 8	9 - 9
		500	242	0.016	0.025	10	8 - 10	10 - 12
		600	290	0.022	0.036	15	9 - 12	11 - 14
		700	338	0.031	0.049	20	10 - 14	12 - 16
		800	387	0.040	0.064	24	10 - 16	13 - 18

Notes:

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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 04).

DFX - Throw Diagram

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

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

