ENGINEERING DATA

DSC90

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°
11x25	6	200	38	0.002	0.004	-	2 - 3	2 - 3
		300	56	0.006	0.008	-	3 - 4	3 - 4
		400	75	0.010	0.015	-	4 - 5	4 - 5
		500	94	0.016	0.023	-	5 - 6	5 - 7
		600	113	0.022	0.033	-	6 - 7	6 - 8
		700	132	0.031	0.045	-	7 - 8	7 - 9
		800	151	0.040	0.059	10	7 - 9	8 - 10
15x37	10	200	106	0.002	0.004	-	5 - 6	5 - 6
		300	160	0.006	0.009	-	7 - 8	7 - 8
		400	213	0.010	0.016	-	8 - 10	9 - 11
		500	266	0.016	0.025	-	10 - 12	10 - 13
		600	319	0.022	0.035	-	12 - 14	12 - 15
		700	372	0.031	0.048	12	13 - 16	14 - 17
		800	425	0.040	0.063	17	15 - 18	15 - 19
18x60	12	200	154	0.002	0.004	-	6 - 7	6 - 7
		300	231	0.006	0.008	-	8 - 10	8 - 10
		400	308	0.010	0.014	-	10 - 13	11 - 13
		500	385	0.016	0.022	-	12 - 15	13 - 16
		600	461	0.022	0.032	-	14 - 18	15 - 18
		700	538	0.031	0.043	12	16 - 20	17 - 21
		800	615	0.040	0.056	16	18 - 22	19 - 23
21x79	16	200	275	0.002	0.004	-	8 - 10	9 - 10
		300	412	0.006	0.008	-	12 - 14	12 - 15
		400	550	0.010	0.015	-	15 - 18	15 - 19
		500	687	0.016	0.024	-	18 - 22	18 - 23
		600	825	0.022	0.034	11	20 - 26	21 - 27
		700	962	0.031	0.046	17	23 - 29	24 - 30
		800	1100	0.040	0.06	21	26 - 33	27 - 34
24x24	10	200	106	0.002	0.004	-	3 - 4	4 - 4
		300	160	0.006	0.009	-	5 - 6	5 - 6
		400	213	0.010	0.016	-	6 - 7	6 - 8
		500	266	0.016	0.025	-	7 - 9	8 - 9
		600	319	0.022	0.037	-	8 - 10	9 - 11
		700	372	0.031	0.05	13	10 - 12	10 - 12
		800	425	0.040	0.065	18	11 - 13	11 - 14

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. ash (-) 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).

ENGINEERING DATA

DSC90

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	12	200	154	0.002	0.004	-	5 - 6	5 - 6
		300	231	0.006	0.009	-	6 - 8	7 - 8
		400	308	0.010	0.015	-	8 - 10	9 - 10
		500	385	0.016	0.024	-	10 - 12	10 - 13
		600	461	0.022	0.035	-	11 - 14	12 - 15
		700	538	0.031	0.047	14	13 - 16	14 - 17
		800	615	0.040	0.062	19	15 - 18	15 - 19
24x48	14	200	210	0.002	0.004	-	6 - 7	6 - 8
		300	315	0.006	0.009	-	8 - 10	9 - 11
		400	420	0.010	0.015	-	11 - 13	11 - 13
		500	525	0.016	0.024	-	13 - 16	13 - 16
		600	630	0.022	0.035	10	15 - 18	15 - 19
		700	735	0.031	0.047	16	17 - 21	18 - 22
		800	840	0.040	0.062	20	19 - 23	20 - 24
30x24	14	200	210	0.002	0.005	-	5 - 6	5 - 6
		300	315	0.006	0.012	-	7 - 9	8 - 9
		400	420	0.010	0.021	-	9 - 11	10 - 12
		500	525	0.016	0.034	-	11 - 13	12 - 14
		600	630	0.022	0.048	15	13 - 16	13 - 16
		700	735	0.031	0.066	20	15 - 18	15 - 19
		800	840	0.040	0.860	25	16 - 20	17 - 21
30x36	16	200	275	0.002	0.005	-	6 - 8	7 - 8
		300	412	0.006	0.010	-	9 - 11	9 - 11
		400	550	0.010	0.018	-	12 - 14	12 - 15
		500	687	0.016	0.029	-	14 - 17	14 - 18
		600	825	0.022	0.041	14	16 - 20	17 - 21
		700	962	0.031	0.056	20	18 - 23	19 - 23
		800	1100	0.040	0.073	24	20 - 25	21 - 26
30x48	16	200	275	0.002	0.004	-	6 - 8	7 - 8
		300	412	0.006	0.009	-	9 - 11	9 - 11
		400	550	0.010	0.015	-	12 - 14	12 - 15
		500	687	0.016	0.024	-	14 - 17	14 - 18
		600	825	0.022	0.034	11	16 - 20	17 - 21
		700	962	0.031	0.047	17	18 - 23	19 - 23
		800	1100	0.040	0.061	21	20 - 25	21 - 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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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. ash (-) 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).

DSC90 - Throw Diagram

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