



ENGINEERING DATA

DSQ1

LISTED UNIT SIZE (in.)	AIRFLOW (CFM)	PLENUM PRESSURE (in. wc)	NC (Noise Criteria)	Throw Length & Width in Adjacent Zone (AZ), (ft.)	
				$\Delta 5^\circ$	$\Delta 10^\circ$
18x4	25	0.005	-	2 - 4	2 - 5
	35	0.010	-	2 - 5	3 - 6
	43	0.015	-	3 - 6	3 - 7
	50	0.020	-	3 - 6	3 - 8
	56	0.025	-	3 - 7	3 - 8
	61	0.030	-	3 - 7	4 - 9
	70	0.040	-	3 - 8	4 - 9
	78	0.050	-	4 - 8	4 - 10
24x4	29	0.005	-	2 - 5	2 - 6
	42	0.010	-	3 - 6	3 - 7
	51	0.015	-	3 - 7	3 - 8
	59	0.020	-	3 - 7	4 - 9
	66	0.025	-	3 - 8	4 - 9
	72	0.030	-	4 - 8	4 - 10
	83	0.040	-	4 - 9	4 - 11
	93	0.050	-	4 - 9	5 - 11
30x4	46	0.005	-	3 - 7	3 - 8
	65	0.010	-	3 - 8	4 - 9
	80	0.015	-	4 - 9	4 - 11
	92	0.020	-	4 - 10	5 - 12
	103	0.025	15	4 - 10	5 - 12
	113	0.030	17	5 - 11	5 - 13
	130	0.040	21	5 - 12	6 - 14
	145	0.050	23	5 - 12	6 - 15
36x4	50	0.005	-	3 - 7	3 - 8
	70	0.010	-	4 - 8	4 - 10
	86	0.015	-	4 - 10	5 - 11
	99	0.020	-	4 - 10	5 - 12
	111	0.025	-	5 - 11	5 - 13
	122	0.030	15	5 - 12	6 - 14
	140	0.040	18	5 - 13	6 - 15
	157	0.050	21	6 - 13	7 - 16
40x4	49	0.005	-	3 - 7	3 - 8
	69	0.010	-	4 - 9	4 - 10
	85	0.015	-	4 - 10	5 - 11
	98	0.020	-	4 - 10	5 - 12
	110	0.025	-	5 - 11	5 - 13
	120	0.030	-	5 - 12	6 - 14
	139	0.040	15	5 - 13	6 - 15
	155	0.050	18	6 - 13	7 - 16

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. NC = Noise Criteria (based on 10db Room attenuation (Re: 10^{-12} watts) evaluated at 125 through 4000Hz octave bands).
6. ΔT = The temperature difference, measured in $^\circ F$, between the supply air and the space 3-1/2 feet above the floor.
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8. Throw values are distances in feet at 50 fpm at listed temperature difference (see diagram on page 07).

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				$\Delta 5^\circ$	$\Delta 10^\circ$
48x4	59	0.005	-	3 - 8	4 - 10
	83	0.010	-	4 - 10	5 - 12
	102	0.015	-	5 - 11	5 - 13
	118	0.020	-	5 - 12	6 - 14
	132	0.025	-	5 - 13	6 - 15
	144	0.030	-	6 - 13	6 - 16
	166	0.040	17	6 - 14	7 - 17
	186	0.050	19	6 - 15	7 - 18
18x6	22	0.010	-	1 - 6	1 - 6
	31	0.020	-	1 - 7	2 - 8
	37	0.030	-	2 - 8	2 - 9
	43	0.040	-	2 - 9	2 - 10
	48	0.050	-	2 - 10	2 - 10
	53	0.060	15	2 - 11	3 - 11
	61	0.080	20	2 - 12	3 - 12
	68	0.100	23	3 - 13	3 - 13
24x6	35	0.010	-	1 - 8	2 - 8
	49	0.020	-	2 - 9	2 - 10
	60	0.030	-	2 - 11	3 - 11
	70	0.040	-	2 - 12	3 - 12
	78	0.050	-	3 - 13	3 - 13
	85	0.060	16	3 - 14	3 - 14
	99	0.080	21	3 - 15	4 - 16
	110	0.100	24	3 - 16	4 - 17
30x6	42	0.010	-	2 - 8	2 - 8
	60	0.020	-	2 - 10	2 - 11
	73	0.030	-	2 - 12	3 - 12
	84	0.040	-	3 - 13	3 - 13
	94	0.050	-	3 - 14	3 - 14
	103	0.060	17	3 - 14	4 - 15
	119	0.080	22	3 - 16	4 - 17
	133	0.100	25	4 - 17	4 - 18
36x6	43	0.010	-	1 - 8	2 - 8
	61	0.020	-	2 - 10	2 - 10
	75	0.030	-	2 - 11	3 - 12
	86	0.040	-	3 - 12	3 - 13
	97	0.050	15	3 - 13	3 - 14
	106	0.060	18	3 - 14	3 - 15
	122	0.080	23	3 - 15	4 - 16
	137	0.100	26	4 - 17	4 - 17

Notes:

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				$\Delta 5^\circ$	$\Delta 10^\circ$
40x6	56	0.010	-	2 - 9	2 - 9
	79	0.020	-	2 - 11	3 - 12
	97	0.030	-	3 - 13	3 - 13
	112	0.040	-	3 - 14	3 - 15
	126	0.050	16	3 - 15	4 - 16
	138	0.060	19	3 - 16	4 - 17
	159	0.080	23	4 - 18	4 - 19
	178	0.100	26	4 - 19	5 - 20
48x6	70	0.010	-	2 - 10	2 - 10
	99	0.020	-	3 - 12	3 - 13
	121	0.030	-	3 - 14	3 - 15
	139	0.040	-	3 - 16	4 - 16
	156	0.050	16	4 - 17	4 - 18
	171	0.060	19	4 - 18	4 - 19
	197	0.080	24	4 - 20	5 - 21
	220	0.100	27	5 - 21	5 - 22
18x8	22	0.010	-	1 - 6	1 - 6
	31	0.020	-	1 - 7	2 - 8
	38	0.030	-	2 - 9	2 - 9
	44	0.040	-	2 - 9	2 - 10
	50	0.050	-	2 - 10	2 - 11
	54	0.060	16	2 - 11	3 - 11
	63	0.080	21	3 - 12	3 - 12
	70	0.100	24	3 - 13	3 - 13
24x8	36	0.010	-	1 - 8	2 - 8
	51	0.020	-	2 - 10	2 - 10
	63	0.030	-	2 - 11	3 - 12
	72	0.040	-	3 - 12	3 - 13
	81	0.050	-	3 - 13	3 - 14
	89	0.060	18	3 - 14	3 - 15
	102	0.080	22	3 - 15	4 - 16
	115	0.100	26	4 - 17	4 - 17
30x8	44	0.010	-	2 - 8	2 - 9
	62	0.020	-	2 - 10	2 - 11
	76	0.030	-	2 - 12	3 - 12
	87	0.040	-	3 - 13	3 - 14
	98	0.050	16	3 - 14	3 - 15
	107	0.060	18	3 - 15	4 - 16
	123	0.080	23	4 - 16	4 - 17
	138	0.100	26	4 - 18	4 - 18

Notes:

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				$\Delta 5^\circ$	$\Delta 10^\circ$
36x8	44	0.010	-	1 - 8	2 - 8
	63	0.020	-	2 - 10	2 - 10
	77	0.030	-	2 - 11	3 - 12
	89	0.040	-	3 - 13	3 - 13
	99	0.050	16	3 - 13	3 - 14
	109	0.060	19	3 - 14	3 - 15
	125	0.080	23	3 - 16	4 - 16
	140	0.100	27	4 - 17	4 - 18
40x8	58	0.010	-	2 - 9	2 - 10
	82	0.020	-	2 - 12	3 - 12
	101	0.030	-	3 - 13	3 - 14
	116	0.040	-	3 - 15	3 - 15
	130	0.050	17	3 - 16	4 - 16
	143	0.060	20	4 - 17	4 - 17
	165	0.080	24	4 - 18	5 - 19
	184	0.100	28	4 - 20	5 - 21
48x8	72	0.010	-	2 - 10	2 - 11
	102	0.020	-	3 - 13	3 - 13
	126	0.030	-	3 - 15	3 - 15
	145	0.040	-	3 - 16	4 - 17
	162	0.050	18	4 - 17	4 - 18
	178	0.060	20	4 - 18	5 - 19
	205	0.080	25	4 - 20	5 - 21
	229	0.100	28	5 - 22	6 - 23
60x8	87	0.010	-	2 - 11	2 - 11
	123	0.020	-	3 - 14	3 - 14
	151	0.030	-	3 - 16	4 - 16
	175	0.040	-	4 - 17	4 - 18
	195	0.050	18	4 - 18	5 - 19
	214	0.060	21	4 - 20	5 - 20
	247	0.080	26	5 - 22	5 - 23
	276	0.100	29	5 - 23	6 - 24
12x12	29	0.010	-	2 - 6	2 - 6
	41	0.020	-	2 - 8	2 - 9
	50	0.030	-	2 - 10	2 - 10
	58	0.040	-	2 - 11	3 - 12
	64	0.050	-	2 - 12	3 - 13
	71	0.060	17	2 - 14	3 - 15
	81	0.080	21	3 - 16	3 - 16
	91	0.100	24	3 - 17	3 - 18

Notes:

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				$\Delta 5^\circ$	$\Delta 10^\circ$
18x12	43	0.010	-	2 - 6	2 - 6
	61	0.020	-	2 - 8	3 - 9
	75	0.030	-	3 - 10	3 - 11
	86	0.040	-	3 - 12	3 - 12
	97	0.050	15	3 - 13	4 - 14
	106	0.060	18	3 - 14	4 - 15
	122	0.080	23	4 - 16	4 - 17
	137	0.100	26	4 - 18	4 - 19
24x12	70	0.010	-	3 - 8	3 - 8
	99	0.020	-	3 - 11	4 - 11
	121	0.030	-	4 - 13	4 - 14
	139	0.040	-	4 - 15	5 - 16
	156	0.050	16	4 - 16	5 - 17
	171	0.060	19	4 - 18	5 - 19
	197	0.080	24	5 - 20	6 - 22
	220	0.100	27	5 - 23	6 - 24
6x18	28	0.010	-	1 - 10	2 - 11
	39	0.020	-	2 - 14	2 - 15
	48	0.030	-	2 - 17	2 - 18
	55	0.040	-	2 - 19	2 - 20
	62	0.050	-	2 - 21	2 - 23
	68	0.060	15	2 - 23	2 - 25
	78	0.080	20	2 - 27	3 - 28
	87	0.100	23	2 - 30	3 - 31
24x24	167	0.010	-	4 - 17	5 - 19
	236	0.020	-	5 - 24	6 - 26
	288	0.030	-	6 - 29	7 - 31
	333	0.040	15	6 - 34	7 - 36
	372	0.050	18	7 - 38	8 - 40
	408	0.060	21	7 - 41	8 - 43
	471	0.080	26	8 - 47	9 - 50
	527	0.100	29	8 - 52	9 - 56
30x24	202	0.010	-	5 - 17	6 - 18
	285	0.020	-	6 - 24	7 - 26
	350	0.030	-	7 - 29	8 - 31
	404	0.040	16	7 - 34	9 - 36
	451	0.050	20	8 - 38	9 - 40
	494	0.060	22	8 - 41	10 - 43
	571	0.080	27	9 - 47	10 - 50
	638	0.100	30	9 - 52	11 - 55

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				$\Delta 5^\circ$	$\Delta 10^\circ$
36x24	209	0.010	-	5 - 15	6 - 16
	296	0.020	-	6 - 22	8 - 23
	362	0.030	-	7 - 26	8 - 28
	418	0.040	17	8 - 30	9 - 32
	468	0.050	21	8 - 33	10 - 35
	512	0.060	23	9 - 36	10 - 39
	592	0.080	28	9 - 42	11 - 44
48x24	661	0.100	31	10 - 47	12 - 49
	333	0.010	-	7 - 19	9 - 20
	471	0.020	-	9 - 26	10 - 28
	577	0.030	-	10 - 32	11 - 34
	666	0.040	18	10 - 37	12 - 39
	745	0.050	21	11 - 41	13 - 44
	816	0.060	24	12 - 45	14 - 47
24x30	942	0.080	29	12 - 51	15 - 54
	1053	0.100	32	13 - 57	16 - 61
	226	0.010	-	5 - 23	6 - 25
	320	0.020	-	6 - 33	7 - 34
	392	0.030	-	7 - 39	8 - 42
	453	0.040	15	7 - 45	9 - 48
	506	0.050	19	8 - 50	9 - 53
24x36	554	0.060	22	8 - 55	10 - 58
	640	0.080	26	9 - 63	10 - 67
	716	0.100	30	9 - 70	11 - 74
	262	0.010	-	6 - 27	7 - 28
	371	0.020	-	7 - 37	8 - 40
	454	0.030	-	7 - 45	9 - 48
	524	0.040	16	8 - 52	9 - 55
24x48	586	0.050	20	8 - 58	10 - 61
	642	0.060	23	9 - 63	10 - 67
	741	0.080	27	9 - 73	11 - 77
	829	0.100	31	10 - 81	12 - 86
	357	0.010	-	7 - 36	8 - 38
	505	0.020	-	8 - 50	9 - 53
	619	0.030	-	9 - 61	10 - 65
24x30	715	0.040	17	9 - 70	11 - 74
	799	0.050	21	10 - 78	12 - 83
	876	0.060	24	10 - 85	12 - 90
	1011	0.080	28	11 - 98	13 - 104
	1130	0.100	32	12 - 109	14 - 115

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ENGINEERING DATA

DSQ1

DSQ1 - Throw Diagram

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

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

