



**DMGSR, DMGDR, DMGPR**  
 These spiral duct mounted grilles feature all aluminum construction and radiused end caps to fit specific duct diameters. Single deflection (DMGSR), double deflection (DMGDR), and perforated (DMGPR) styles are available.



**DMGSU, DMGDU, DMGPU**  
 These spiral duct mounted grilles feature all aluminum construction and universal end caps to fit multiple duct diameters. Single deflection (DMGSU), double deflection (DMGDU), and perforated (DMGPU) styles are available.



**DMD**  
 This supply drum louver mounts directly to round spiral duct, does not require any duct taps, and features 80° of drum rotation.

**DMGSR, DMGSU, DMGDR, DMGDU**

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**DMGPR, DMGPU**

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**DMD**

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**Introduction: DMD**

The DMD duct mounted drum louver series delivers air with extremely long throws, which makes them ideally suited for installation in large enclosures. They provide both horizontal and vertical air stream control. Controlling length of throw and its direction is made possible by the adjustable drum and vane design. The long throw is adjusted by the louver vanes while air directional control is obtained by rotating the drum. The drum rotation features 80° angular adjustment of the jet centerline (40° up from centerline to 40° down). The ability to mount the DMD directly to spiral or round duct work without the use of costly transition taps makes the DMD ideal for exposed ceiling installations.

**MODEL**

DMD - Duct mounted drum louver.

**FEATURES**

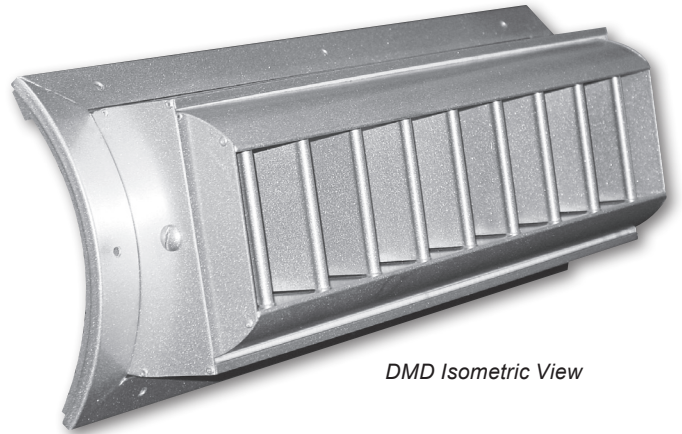
- 2" Louver vane spacing.
- Mounts directly to spiral or round duct.
- Easy finger tip adjustment.
- Heavy gage aluminum construction.
- Foam gasket to seal unit to duct.

**ACCESSORIES**

- Damper/Extractor

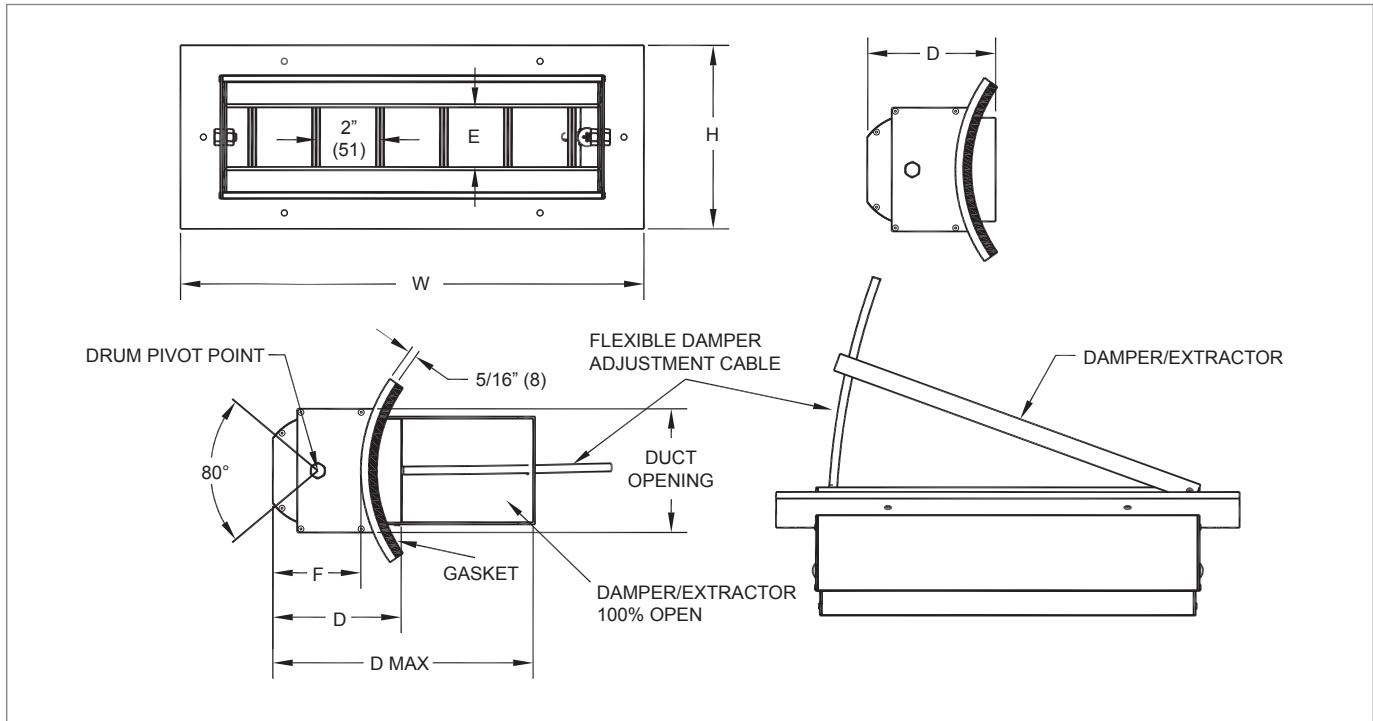
**FINISHES**

- Standard Finish is #70 Silver Metallic.
- Optional finishes available.

*DMD Isometric View**DMD Face View*

**DMD Dimensional Information**

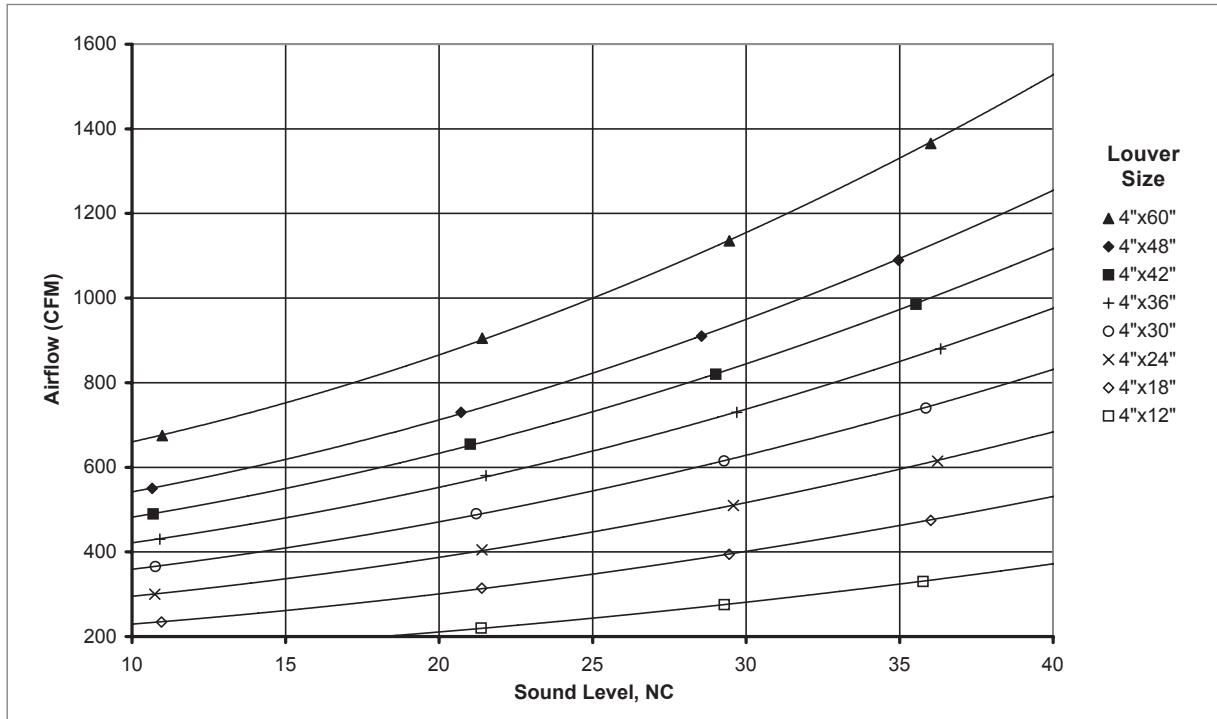
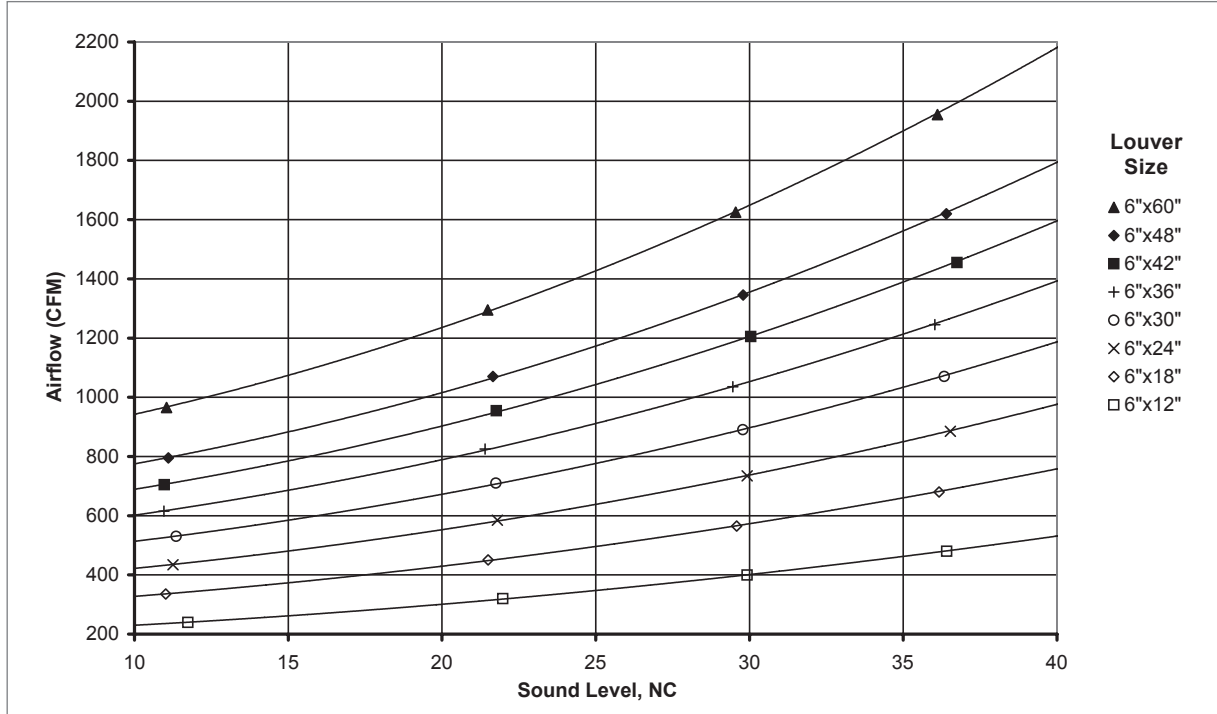
**DMD, FACE VIEW, SIDE VIEW, & CROSS SECTIONS**



**DMD, AVAILABLE SIZES**

Nominal Duct Size	H	W	E	F	D	D MAX	Minimum Round Duct	Blade Qty	Screw Holes
12 x 4	6 1/2" (165)	14 3/8" (365)	2" (51)	3 1/8" (79)	4" (102)	17 1/4" (438)	8" (203)	6	6
18 x 4		20 3/8" (518)						9	8
24 x 4		26 3/8" (670)						12	10
30 x 4		32 3/8" (822)						15	10
36 x 4		38 3/8" (975)						18	12
42 x 4		44 3/8" (1127)						21	12
48 x 4		50 3/8" (1280)						24	14
60 x 4		62 3/8" (1584)						30	16
12 x 6	8 1/2" (216)	14 3/8" (365)	3 1/2" (89)	3 7/8" (98)	4 3/4" (121)	18" (457)	10" (254)	6	6
18 x 6		20 3/8" (518)						9	8
24 x 6		26 3/8" (670)						12	10
30 x 6		32 3/8" (822)						15	10
36 x 6		38 3/8" (975)						18	12
42 x 6		44 3/8" (1127)						21	12
48 x 6		50 3/8" (1280)						24	14
60 x 6		62 3/8" (1584)						30	16
12 x 8	10 1/2" (267)	14 3/8" (365)	5" (127)	4 1/2" (114)	5 1/2" (140)	18 3/4" (476)	12" (305)	6	6
18 x 8		20 3/8" (518)						9	8
24 x 8		26 3/8" (670)						12	10
30 x 8		32 3/8" (822)						15	10
36 x 8		38 3/8" (975)						18	12
42 x 8		44 3/8" (1127)						21	12
48 x 8		50 3/8" (1280)						24	14
60 x 8		62 3/8" (1584)						30	16
12 x 10	12 1/2" (318)	14 3/8" (365)	6 5/8" (168)	5 1/4" (133)	6 1/4" (159)	19 1/2" (495)	14" (356)	6	6
18 x 10		20 3/8" (518)						9	8
24 x 10		26 3/8" (670)						12	10
30 x 10		32 3/8" (822)						15	10
36 x 10		38 3/8" (975)						18	12
42 x 10		44 3/8" (1127)						21	12
48 x 10		50 3/8" (1280)						24	14
60 x 10		62 3/8" (1584)						30	16

NOTES: Dimensions in parentheses are mm.

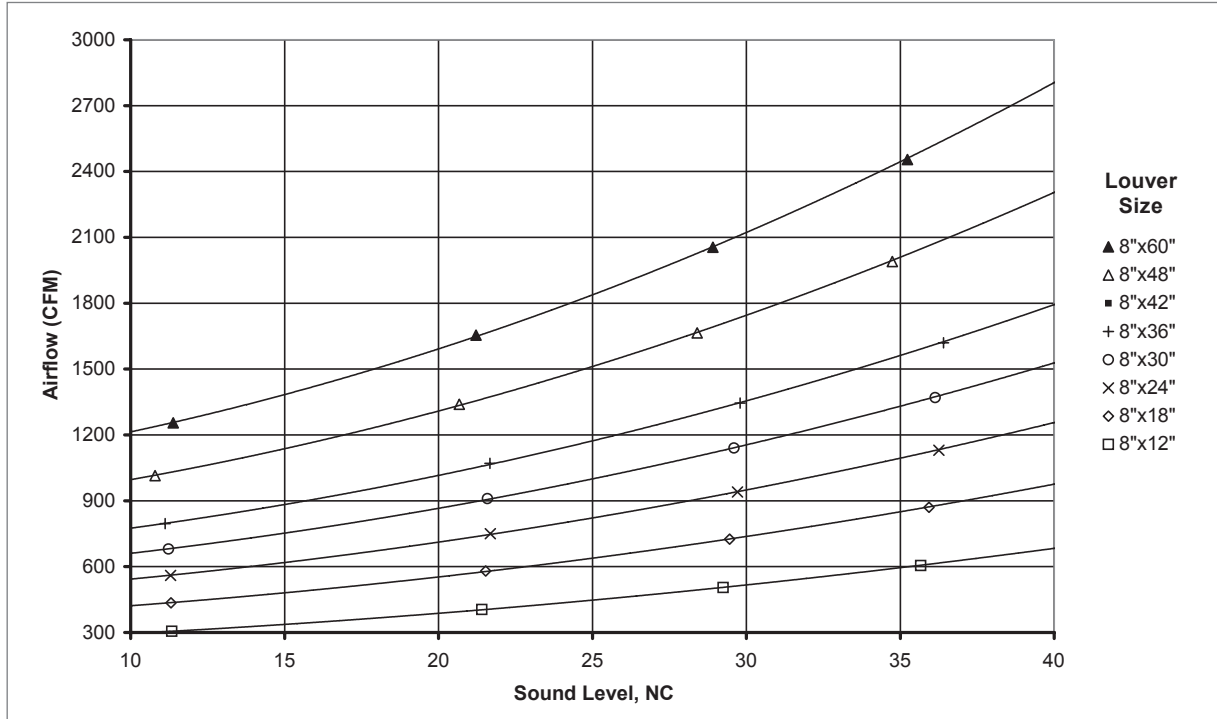
**DMD Reference Charts**
**AIRFLOW VS. NC LEVEL: DMD (NO DAMPER)**

**AIRFLOW VS. NC LEVEL: DMD (NO DAMPER)**


DUCT MOUNTED GRILLES &amp; LOUVERS

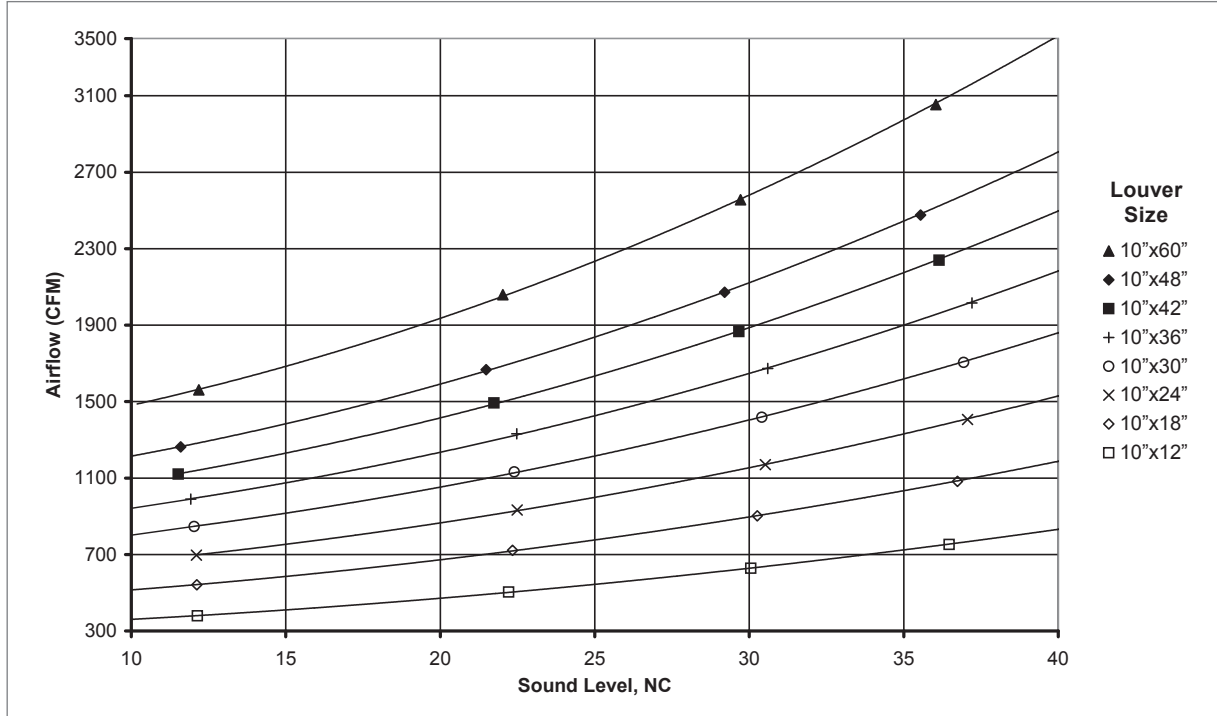
DMD

**DMD Reference Charts**

**AIRFLOW VS. NC LEVEL: DMD (NO DAMPER)**



**AIRFLOW VS. NC LEVEL: DMD (NO DAMPER)**



DUCT MOUNTED GRILLES & LOUVERS

D  
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**DMD Performance Data**
**IP/METRIC DATA: DMD, 4" LOUVER (NO DAMPER)**

Nominal Duct Opening	IP Data			NC	Nominal Duct Opening	Metric Data			Octave Band, dB						
	Air Flow	Pt	Throw			Air Flow	Pt	Throw	2	3	4	5	6	7	
in	CFM	"WG	ft		mm	L/s	Pa	m							
4" x 12"	165	.111	5 - 11 - 21	11	102 x 305	78	27.8	1.4 - 3.2 - 6.5	32	29	28	23	18	-	
	220	.198	8 - 14 - 27	21		104	49.3	2.5 - 4.3 - 8.1	40	37	36	33	30	17	
	275	.309	12 - 18 - 30	29		130	77.0	3.6 - 5.4 - 9.1	46	43	43	41	39	27	
	330	.445	14 - 21 - 33	36		156	110.8	4.3 - 6.5 - 10.0	51	48	48	47	46	34	
	385	.606	17 - 25 - 35	41		182	150.8	5.0 - 7.5 - 10.7	56	53	53	53	52	41	
4" x 18"	235	.103	9 - 15 - 28	11	102 x 457	111	25.7	2.9 - 4.6 - 8.4	32	29	28	23	17	-	
	315	.186	14 - 20 - 32	21		148	46.2	4.1 - 6.2 - 9.7	41	38	37	33	29	17	
	395	.292	17 - 25 - 36	29		186	72.7	5.1 - 7.7 - 10.9	47	44	43	41	39	26	
	475	.423	20 - 28 - 39	36		224	105.2	6.2 - 8.4 - 11.9	52	49	49	47	46	34	
	555	.577	24 - 30 - 42	42		262	143.7	7.2 - 9.1 - 12.9	56	53	53	53	52	41	
4" x 24"	300	.097	13 - 19 - 31	11	102 x 610	142	24.1	3.9 - 5.9 - 9.5	32	29	28	22	17	-	
	405	.176	17 - 26 - 36	21		191	43.8	5.3 - 7.8 - 11.0	41	38	37	33	29	17	
	510	.279	22 - 29 - 41	30		241	69.5	6.7 - 8.7 - 12.4	47	44	44	41	39	26	
	615	.406	26 - 32 - 45	36		290	101.0	7.8 - 9.6 - 13.6	52	49	49	48	46	34	
	720	.556	28 - 34 - 48	42		340	138.4	8.5 - 10.4 - 14.7	57	54	54	53	53	41	
4" x 30"	365	.093	16 - 24 - 34	11	102 x 762	172	23.0	4.8 - 7.1 - 10.5	33	30	28	23	17	-	
	490	.167	21 - 28 - 40	21		231	41.5	6.4 - 8.6 - 12.1	41	38	37	33	29	16	
	615	.262	26 - 32 - 45	29		290	65.3	7.8 - 9.6 - 13.6	47	44	44	41	38	26	
	740	.380	28 - 35 - 49	36		349	94.6	8.6 - 10.5 - 14.9	52	49	49	47	46	34	
	865	.519	31 - 37 - 53	41		408	129.2	9.3 - 11.4 - 16.1	57	54	54	53	52	40	
4" x 36"	430	.090	18 - 26 - 37	11	102 x 914	203	22.4	5.6 - 8.0 - 11.4	33	30	29	23	17	-	
	580	.163	25 - 31 - 43	22		274	40.7	7.6 - 9.3 - 13.2	41	38	37	33	29	16	
	730	.259	28 - 34 - 49	30		345	64.4	8.5 - 10.5 - 14.8	48	45	44	41	38	26	
	880	.376	31 - 38 - 53	36		415	93.6	9.4 - 11.5 - 16.2	53	50	50	48	46	34	
	1030	.515	33 - 41 - 58	42		486	128.2	10.1 - 12.4 - 17.6	57	54	54	53	52	41	
4" x 42"	490	.086	21 - 28 - 40	11	102 x 1067	231	21.4	6.4 - 8.6 - 12.1	33	30	28	22	16	-	
	655	.154	27 - 33 - 46	21		309	38.2	8.1 - 9.9 - 14.0	41	38	37	33	28	16	
	820	.241	30 - 36 - 52	29		387	60.0	9.1 - 11.1 - 15.7	47	44	44	41	37	25	
	985	.348	33 - 40 - 57	36		465	86.6	9.9 - 12.2 - 17.2	52	49	49	47	45	33	
	1150	.474	35 - 43 - 61	41		543	118.0	10.7 - 13.1 - 18.6	57	54	54	53	51	40	
4" x 48"	550	.083	24 - 30 - 42	11	102 x 1219	260	20.7	7.2 - 9.1 - 12.8	33	30	29	22	16	-	
	730	.147	28 - 34 - 49	21		345	36.5	8.5 - 10.5 - 14.8	41	38	37	32	28	15	
	910	.228	31 - 38 - 54	29		429	56.8	9.5 - 11.7 - 16.5	47	44	43	40	37	25	
	1090	.327	34 - 42 - 59	35		514	81.4	10.4 - 12.8 - 18.1	52	49	49	46	44	32	
	1270	.444	37 - 45 - 64	40		599	110.5	11.3 - 13.8 - 19.5	56	53	53	52	50	39	
4" x 60"	675	.081	27 - 33 - 47	11	102 x 1524	319	20.1	8.2 - 10.1 - 14.2	33	30	29	23	16	-	
	905	.145	31 - 38 - 54	21		427	36.1	9.5 - 11.7 - 16.5	42	39	38	33	28	16	
	1135	.228	35 - 43 - 61	29		536	56.8	10.7 - 13.0 - 18.5	48	45	44	41	38	25	
	1365	.330	38 - 47 - 67	36		644	82.2	11.7 - 14.3 - 20.2	53	50	50	48	45	33	
	1595	.451	42 - 51 - 72	42		753	112.2	12.6 - 15.5 - 21.9	58	55	54	53	52	40	

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s), free jet. Throw is based on a 15° upward deflection; for 0°, multiply throws shown by 1.2; for 30°, multiply by 0.8. Sound is based on a 0° spread, for 20° spread, add 4 NC; for 40° spread, add 9 NC. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a dB value of less than 10. Velocity pressures are based on nominal duct velocity. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70. For best performance, the round duct diameter should be sized as large as possible. Duct velocities in excess of 1000 FPM may result in higher noise and asymmetric throw patterns. See Krueger's selection program for performance data not shown, including octave band data.

**DMD Performance Data**

**IP/METRIC DATA: DMD, 6" LOUVER (NO DAMPER)**

Nominal Duct Opening	IP Data			NC	Nominal Duct Opening	Metric Data			Octave Band, dB						
	Air Flow	Pt	Throw			Air Flow	Pt	Throw	2	3	4	5	6	7	
in	CFM	"WG	ft		mm	L/s	Pa	m							
6" x 12"	240	.089	9 - 15 - 28	12	152 x 305	113	22.1	2.9 - 4.6 - 8.5	33	30	29	23	18	-	
	320	.158	14 - 20 - 32	22		151	39.3	4.1 - 6.2 - 9.8	41	38	37	34	30	18	
	400	.247	17 - 25 - 36	30		189	61.5	5.1 - 7.7 - 11.0	47	44	44	41	39	27	
	480	.356	20 - 28 - 39	36		227	88.6	6.2 - 8.5 - 12.0	52	49	49	48	47	35	
	560	.485	24 - 30 - 43	42		264	120.7	7.2 - 9.2 - 13.0	57	54	54	53	53	41	
6" x 18"	335	.080	14 - 21 - 33	11	152 x 457	158	19.9	4.3 - 6.5 - 10.0	33	30	28	23	17	-	
	450	.144	19 - 27 - 38	21		213	35.8	5.8 - 8.2 - 11.6	41	38	37	33	29	17	
	565	.227	24 - 30 - 43	30		267	56.5	7.3 - 9.2 - 13.0	47	44	44	41	38	26	
	680	.329	27 - 33 - 47	36		321	81.8	8.2 - 10.1 - 14.3	53	50	49	48	46	34	
	795	.449	29 - 36 - 51	42		375	111.8	8.9 - 10.9 - 15.4	57	54	54	53	52	41	
6" x 24"	435	.077	18 - 27 - 38	11	152 x 610	205	19.1	5.6 - 8.1 - 11.4	33	30	29	23	17	-	
	585	.139	25 - 31 - 44	22		276	34.6	7.5 - 9.4 - 13.2	42	39	38	33	29	17	
	735	.219	28 - 35 - 49	30		347	54.6	8.6 - 10.5 - 14.8	48	45	44	41	39	26	
	885	.318	31 - 38 - 54	37		418	79.2	9.4 - 11.5 - 16.3	53	50	50	48	46	34	
	1035	.435	33 - 41 - 58	42		489	108.4	10.2 - 12.5 - 17.6	57	54	54	54	53	41	
6" x 30"	530	.074	22 - 29 - 41	11	152 x 762	250	18.4	6.8 - 8.9 - 12.6	33	30	29	23	17	-	
	710	.132	28 - 34 - 48	22		335	33.0	8.4 - 10.3 - 14.6	42	39	38	33	29	17	
	890	.208	31 - 38 - 54	30		420	51.8	9.4 - 11.6 - 16.3	48	45	44	41	38	26	
	1070	.301	34 - 42 - 59	36		505	74.9	10.3 - 12.7 - 17.9	53	50	50	48	46	34	
	1250	.411	37 - 45 - 64	42		590	102.2	11.2 - 13.7 - 19.4	57	54	54	53	52	41	
6" x 36"	615	.069	26 - 32 - 45	11	152 x 914	290	17.3	7.8 - 9.6 - 13.6	33	30	29	23	17	-	
	825	.125	30 - 37 - 52	21		389	31.1	9.1 - 11.1 - 15.7	42	39	38	33	29	16	
	1035	.197	33 - 41 - 58	29		489	49.0	10.2 - 12.5 - 17.6	48	45	44	41	38	26	
	1245	.285	37 - 45 - 64	36		588	70.9	11.2 - 13.7 - 19.3	53	50	50	48	45	33	
	1455	.389	40 - 49 - 69	42		687	96.8	12.1 - 14.8 - 20.9	57	54	54	53	52	40	
6" x 42"	705	.067	28 - 34 - 48	11	152 x 1067	332	16.8	8.4 - 10.3 - 14.5	33	30	29	23	16	-	
	955	.124	32 - 39 - 56	22		451	30.8	9.8 - 12.0 - 16.9	42	39	38	33	29	16	
	1205	.197	36 - 44 - 63	30		569	49.0	11.0 - 13.4 - 19.0	49	46	45	42	38	26	
	1455	.287	40 - 49 - 69	37		687	71.5	12.1 - 14.8 - 20.9	54	51	50	48	46	34	
	1705	.394	43 - 53 - 74	42		805	98.1	13.1 - 16.0 - 22.6	58	55	55	54	53	41	
6" x 48"	795	.066	29 - 36 - 51	11	152 x 1219	375	16.4	8.9 - 10.9 - 15.4	34	31	29	23	17	-	
	1070	.119	34 - 42 - 59	22		505	29.7	10.3 - 12.7 - 17.9	42	39	38	33	29	16	
	1345	.188	38 - 47 - 66	30		635	46.9	11.6 - 14.2 - 20.1	48	45	45	41	38	26	
	1620	.273	42 - 51 - 73	36		765	68.1	12.7 - 15.6 - 22.0	54	51	50	48	46	34	
	1895	.374	45 - 55 - 78	42		894	93.2	13.8 - 16.9 - 23.8	58	55	55	53	52	40	
6" x 60"	965	.062	32 - 40 - 56	11	152 x 1524	456	15.6	9.8 - 12.0 - 17.0	34	31	29	23	16	-	
	1295	.112	37 - 46 - 65	21		611	28.0	11.4 - 13.9 - 19.7	42	39	38	33	28	16	
	1625	.177	42 - 51 - 73	30		767	44.1	12.7 - 15.6 - 22.1	48	45	45	41	38	25	
	1955	.256	46 - 56 - 80	36		923	63.8	14.0 - 17.1 - 24.2	54	51	50	48	45	33	
	2285	.350	50 - 61 - 86	42		1078	87.1	15.1 - 18.5 - 26.2	58	55	55	53	52	40	

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s), free jet. Throw is based on a 15° upward deflection; for 0°, multiply throws shown by 1.2; for 30°, multiply by 0.8. Sound is based on a 0° spread, for 20° spread, add 4 NC; for 40° spread, add 9 NC. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a dB value of less than 10. Velocity pressures are based on nominal duct velocity. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70. For best performance, the round duct diameter should be sized as large as possible. Duct velocities in excess of 1000 FPM may result in higher noise and asymmetric throw patterns. See Krueger's selection program for performance data not shown, including octave band data.

DUCT MOUNTED GRILLES & LOUVERS

DMD

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**DMD Performance Data**
**IP/METRIC DATA: DMD, 8" LOUVER (NO DAMPER)**

Nominal Duct Opening	IP Data			NC	Nominal Duct Opening	Metric			Octave Band, dB						
	Air Flow	Pt	Throw			Air Flow	Pt	Throw	2	3	4	5	6	7	
in	CFM	"WG	ft		mm	L/s	Pa	m							
8" x 12"	305	.078	13 - 19 - 31	11	203 x 305	144	19.5	3.9 - 5.9 - 9.6	33	30	29	23	18	-	
	405	.138	17 - 26 - 36	21		191	34.3	5.2 - 7.8 - 11.0	41	38	37	33	29	17	
	505	.214	21 - 29 - 40	29		238	53.3	6.5 - 8.7 - 12.3	47	44	43	41	38	26	
	605	.307	25 - 31 - 44	36		286	76.5	7.7 - 9.5 - 13.5	52	49	49	47	46	34	
	705	.417	28 - 34 - 48	41		333	103.9	8.4 - 10.3 - 14.5	56	53	53	53	52	40	
8" x 18"	435	.073	18 - 27 - 38	11	203 x 457	205	18.2	5.6 - 8.1 - 11.4	33	30	29	23	17	-	
	580	.130	24 - 31 - 43	22		274	32.3	7.4 - 9.3 - 13.2	41	38	37	33	29	16	
	725	.203	28 - 34 - 49	29		342	50.5	8.5 - 10.4 - 14.7	48	45	44	41	38	26	
	870	.292	31 - 38 - 53	36		411	72.7	9.3 - 11.4 - 16.2	53	50	49	47	46	34	
	1015	.397	33 - 41 - 57	41		479	98.9	10.1 - 12.3 - 17.4	57	54	54	53	52	40	
8" x 24"	560	.069	24 - 30 - 43	11	203 x 610	264	17.2	7.2 - 9.2 - 13.0	33	30	29	23	17	-	
	750	.124	28 - 35 - 49	22		354	30.9	8.7 - 10.6 - 15.0	42	39	38	33	29	16	
	940	.195	32 - 39 - 55	30		444	48.6	9.7 - 11.9 - 16.8	48	45	44	41	38	26	
	1130	.282	35 - 43 - 61	36		533	70.2	10.6 - 13.0 - 18.4	53	50	50	48	46	34	
	1320	.385	38 - 46 - 65	42		623	95.8	11.5 - 14.1 - 19.9	57	54	54	53	52	40	
8" x 30"	680	.066	27 - 33 - 47	11	203 x 762	321	16.4	8.2 - 10.1 - 14.3	34	31	29	23	17	-	
	910	.118	31 - 38 - 54	22		429	29.4	9.5 - 11.7 - 16.5	42	39	38	33	29	16	
	1140	.185	35 - 43 - 61	30		538	46.2	10.7 - 13.1 - 18.5	48	45	44	41	38	26	
	1370	.268	39 - 47 - 67	36		647	66.7	11.7 - 14.3 - 20.3	53	50	50	48	45	33	
	1600	.365	42 - 51 - 72	42		755	91.0	12.6 - 15.5 - 21.9	58	55	54	53	52	40	
8" x 36"	795	.063	29 - 36 - 51	11	203 x 914	375	15.7	8.9 - 10.9 - 15.4	34	31	29	23	17	-	
	1070	.114	34 - 42 - 59	22		505	28.5	10.3 - 12.7 - 17.9	42	39	38	33	29	16	
	1345	.180	38 - 47 - 66	30		635	44.9	11.6 - 14.2 - 20.1	48	45	45	41	38	26	
	1620	.262	42 - 51 - 73	36		765	65.2	12.7 - 15.6 - 22.0	54	51	50	48	46	34	
	1895	.358	45 - 55 - 78	42		894	89.2	13.8 - 16.9 - 23.8	58	55	55	53	52	40	
8" x 42"	900	.060	31 - 38 - 54	11	203 x 1067	425	14.9	9.5 - 11.6 - 16.4	34	31	29	23	16	-	
	1200	.106	36 - 44 - 62	21		566	26.4	11.0 - 13.4 - 19.0	42	39	37	33	28	15	
	1500	.166	40 - 49 - 70	29		708	41.3	12.2 - 15.0 - 21.2	48	45	44	40	37	24	
	1800	.239	44 - 54 - 76	35		850	59.4	13.4 - 16.4 - 23.2	53	50	49	47	44	32	
	2100	.325	48 - 58 - 83	41		991	80.9	14.5 - 17.7 - 25.1	57	54	54	52	51	39	
8" x 48"	1015	.058	33 - 41 - 57	11	203 x 1219	479	14.5	10.1 - 12.3 - 17.4	34	31	29	23	16	-	
	1340	.102	38 - 47 - 66	21		632	25.3	11.6 - 14.2 - 20.0	42	39	37	32	27	15	
	1665	.157	42 - 52 - 74	28		786	39.1	12.9 - 15.8 - 22.3	48	45	44	40	36	24	
	1990	.224	46 - 57 - 80	35		939	55.8	14.1 - 17.3 - 24.4	53	50	49	46	44	31	
	2315	.303	50 - 61 - 87	40		1093	75.5	15.2 - 18.6 - 26.4	57	54	53	52	50	38	
8" x 60"	1255	.057	37 - 45 - 64	11	203 x 1524	592	14.3	11.2 - 13.7 - 19.4	34	31	30	23	17	-	
	1655	.100	42 - 52 - 73	21		781	24.8	12.9 - 15.8 - 22.3	42	39	38	33	28	15	
	2055	.154	47 - 58 - 82	29		970	38.3	14.3 - 17.6 - 24.8	48	45	44	41	37	24	
	2455	.219	52 - 63 - 89	35		1159	54.6	15.7 - 19.2 - 27.1	53	50	50	47	44	32	
	2855	.297	56 - 68 - 96	41		1347	73.9	16.9 - 20.7 - 29.3	57	54	54	52	50	38	

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s), free jet. Throw is based on a 15° upward deflection; for 0°, multiply throws shown by 1.2; for 30°, multiply by 0.8. Sound is based on a 0° spread, for 20° spread, add 4 NC; for 40° spread, add 9 NC. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a dB value of less than 10. Velocity pressures are based on nominal duct velocity. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70. For best performance, the round duct diameter should be sized as large as possible. Duct velocities in excess of 1000 FPM may result in higher noise and asymmetric throw patterns. See Krueger's selection program for performance data not shown, including octave band data.



**DMD Performance Data**

**IP/METRIC DATA: DMD, 10" LOUVER (NO DAMPER)**

Nominal Duct Opening	IP Data				NC	Nominal Duct Opening	Metric			Octave Band, dB						
	Air Flow	Pt	Throw	mm			Air Flow	Pt	Throw	2	3	4	5	6	7	
	CFM	"WG	ft				L/s	Pa	m							
10" x 12"	380	.067	16 - 24 - 35	12	254 x 305	179	16.8	4.9 - 7.3 - 10.7	34	31	29	24	18	-		
	504	.119	21 - 29 - 40	22		238	29.6	6.4 - 8.7 - 12.3	42	39	38	34	30	17		
	628	.185	26 - 32 - 45	30		297	46.0	7.9 - 9.7 - 13.7	48	45	44	42	39	27		
	753	.265	29 - 35 - 49	36		355	66.1	8.7 - 10.6 - 15.0	53	50	50	48	46	34		
10" x 18"	877	.360	31 - 38 - 53	42	254 x 457	414	89.7	9.4 - 11.5 - 16.2	57	54	54	53	53	41		
	542	.063	23 - 30 - 42	12		256	15.7	6.9 - 9.0 - 12.7	34	31	30	24	18	-		
	722	.112	28 - 34 - 48	22		341	27.9	8.5 - 10.4 - 14.7	42	39	38	34	30	17		
	902	.175	31 - 38 - 54	30		426	43.6	9.5 - 11.6 - 16.5	48	45	45	42	39	27		
10" x 24"	1083	.252	34 - 42 - 59	37	254 x 610	511	62.8	10.4 - 12.7 - 18.0	53	50	50	48	46	34		
	1263	.343	37 - 45 - 64	42		596	85.5	11.2 - 13.8 - 19.5	58	55	55	54	53	41		
	697	.060	27 - 34 - 48	12		329	14.9	8.3 - 10.2 - 14.5	34	31	30	24	18	-		
	933	.107	32 - 39 - 55	22		440	26.7	9.7 - 11.8 - 16.7	43	40	39	34	30	17		
10" x 30"	1170	.168	36 - 44 - 62	31	254 x 762	552	41.9	10.8 - 13.2 - 18.7	49	46	45	42	39	27		
	1406	.243	39 - 48 - 68	37		664	60.6	11.9 - 14.5 - 20.5	54	51	51	49	47	35		
	1643	.332	42 - 52 - 73	43		775	82.7	12.8 - 15.7 - 22.2	58	55	55	54	53	41		
	846	.057	30 - 37 - 52	12		399	14.2	9.2 - 11.3 - 15.9	34	31	30	24	18	-		
10" x 36"	1132	.102	35 - 43 - 61	22	254 x 914	534	25.4	10.6 - 13.0 - 18.4	43	40	39	34	29	17		
	1419	.160	39 - 48 - 68	30		669	39.9	11.9 - 14.6 - 20.6	49	46	45	42	39	26		
	1705	.231	43 - 53 - 74	37		805	57.6	13.1 - 16.0 - 22.6	54	51	51	48	46	34		
	1991	.315	46 - 57 - 80	42		940	78.6	14.1 - 17.3 - 24.4	58	55	55	54	53	41		
10" x 42"	990	.055	33 - 40 - 57	12	254 x 1067	467	13.6	9.9 - 12.2 - 17.2	35	32	30	24	17	-		
	1332	.099	38 - 46 - 66	22		629	24.6	11.5 - 14.1 - 20.0	43	40	39	34	29	17		
	1674	.156	43 - 52 - 74	31		790	38.8	12.9 - 15.8 - 22.4	49	46	46	42	39	27		
	2016	.226	47 - 57 - 81	37		951	56.3	14.2 - 17.4 - 24.6	54	51	51	49	46	34		
10" x 48"	2358	.309	51 - 62 - 87	43	254 x 1219	1113	77.0	15.4 - 18.8 - 26.6	59	56	56	54	53	41		
	1120	.052	35 - 43 - 60	12		529	12.8	10.6 - 13.0 - 18.3	34	31	30	23	17	-		
	1493	.092	40 - 49 - 70	22		705	22.8	12.2 - 15.0 - 21.2	42	39	38	33	29	16		
	1867	.143	45 - 55 - 78	30		881	35.6	13.7 - 16.7 - 23.7	49	46	45	41	38	25		
10" x 60"	2240	.206	49 - 60 - 85	36	254 x 1524	1057	51.3	15.0 - 18.3 - 25.9	54	51	50	48	45	33		
	2613	.280	53 - 65 - 92	42		1233	69.8	16.2 - 19.8 - 28.0	58	55	55	53	51	40		
	1262	.050	37 - 45 - 64	12		596	12.5	11.2 - 13.8 - 19.5	35	32	30	23	17	-		
	1667	.088	42 - 52 - 74	21		787	21.8	12.9 - 15.8 - 22.4	42	39	38	33	28	15		
10" x 60"	2072	.135	47 - 58 - 82	29	254 x 1524	978	33.7	14.4 - 17.6 - 24.9	48	45	45	41	37	25		
	2476	.194	52 - 63 - 90	36		1169	48.2	15.7 - 19.3 - 27.3	53	50	50	47	44	32		
	2881	.262	56 - 68 - 97	41		1360	65.2	17.0 - 20.8 - 29.4	58	55	54	52	51	39		
	1561	.049	41 - 50 - 71	12		737	12.3	12.5 - 15.3 - 21.6	35	32	31	24	17	-		
10" x 60"	2059	.086	47 - 58 - 82	22	254 x 1524	972	21.4	14.3 - 17.6 - 24.9	43	40	39	34	29	16		
	2557	.133	53 - 64 - 91	30		1207	33.1	16.0 - 19.6 - 27.7	49	46	45	41	37	25		
	3054	.189	57 - 70 - 100	36		1442	47.2	17.5 - 21.4 - 30.3	54	51	50	48	45	33		
	3552	.256	62 - 76 - 107	41		1676	63.8	18.8 - 23.1 - 32.6	58	55	55	53	51	39		

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s), free jet. Throw is based on a 15° upward deflection; for 0°, multiply throws shown by 1.2; for 30°, multiply by 0.8. Sound is based on a 0° spread, for 20° spread, add 4 NC; for 40° spread, add 9 NC. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Dash in space denotes a dB value of less than 10. Velocity pressures are based on nominal duct velocity. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70. For best performance, the round duct diameter should be sized as large as possible. Duct velocities in excess of 1000 FPM may result in higher noise and asymmetric throw patterns. See Krueger's selection program for performance data not shown, including octave band data.

DUCT MOUNTED GRILLES & LOUVERS

DMD

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**DMD Suggested Specification & Configuration**

- 1. SERIES: (XXX)**  
DMD - Duct Mounted Drum Louver
- 2. WIDTH: (XX)**  
12", 18", 24", 30", 36", 42", 48", and 60"
- 3. HEIGHT: (XX)**  
4", 6", 8", or 10"
- 4. DUCT DIAMETER: (XX)**  
8" to 48"
- 5. DAMPER: (XX) \***  
00 - No Damper/Extractor  
01 - Damper/Extractor
- 6. FINISH: (XX)**  
36 - Black Gloss  
44 - British White  
50 - Bright White  
70 - Silver Metallic

\* Damper/extractor must be ordered with the product; cannot be retrofitted.

**DMD**

The industrial supply drum louver shall be a Krueger model DMD. The DMD shall be designed to be installed directly to spiral or round duct work without the use of costly transition taps. The frame shall have screw holes. The louver vanes shall be a heavy gage aluminum and fully adjustable. The drum shall be heavy gage aluminum and able to rotate a minimum of 40° up or down from the centerline of the frame.

Optional damper/extractor shall be available and made of plate aluminum and be operable from the face of the drum louver. The damper/extractor, once adjusted, must keep the setting through the operating range of the drum louver as determined by catalog performance data.

**PERFORMANCE**

The manufacturer shall provide published performance data for the diffuser. The diffuser shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

**FINISH**

The paint finish shall be #70 Silver Metallic and be a P-Series Powder Coating finish, baked at 400°F for 7 minutes. The paint thickness shall be 1.8 – 2.2 mils, pencil hardness per ASTM D3363 of H – 2H, crosshatch adhesion per ASTM D3359 of 4B, impact per ASTM D2794 of direct and reverse impact range of 40 to 160 in/lb depending on formulation, salt spray per ASTM B117 of 1000 hours, humidity per ASTM D2247 of 1000 hours and water soak per ASTM D8702 of 500 hours.