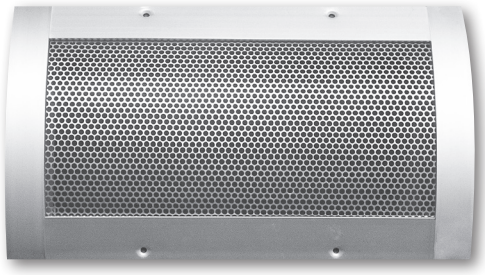
Introduction: 5DMGPR, 5DMGPU

The 5DMGPR and 5DMGPU spiral duct supply grilles are designed to be installed directly on spiral duct, eliminating the need for costly register taps. Each unit is offered with a perforated face as well as an extractor damper for volume control. The 5DMGPR series features curved end caps, which fit your specific duct diameter requirements for a clean, unobtrusive appearance. For added flexibility, the 5DMGPU offers foam universal end caps, which allow one grille size to fit multiple round duct work diameters. The exceptional performance and ease of installation makes Krueger's 5DMGPR and 5DMGPU spiral duct supply grilles an ideal choice for exposed duct ceiling applications.



5DMGPR Radius End Cap Duct Mounted Grille, face view.

5DMGPR Radius End Cap side view (left) and 5DMGPU Universal End Cap side view (right).

MODEL

5DMGPR -
Perforated spiral duct supply grille with end caps curved to fit a specific duct diameter.

5DMGPU -
Perforated spiral duct supply grille with universal end caps to accommodate multiple duct diameters.

FEATURES

- Perforated Pattern: 5/32" holes on 3/16" centers (63% free area).
- All aluminum construction.

ACCESSORIES

- Damper/Extractor

FINISHES

- Standard finish is #44 British White or #81 Clear Anodize.

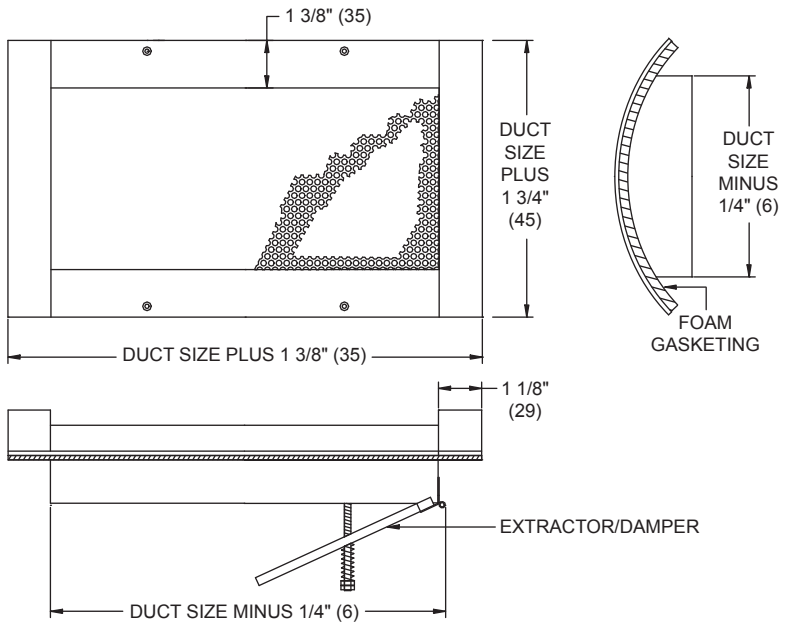
RELATED DEFINITIONS

- ENTRAINED JET: A jet that is near enough to a ceiling or wall to become attached or develop the Coanda Effect.*

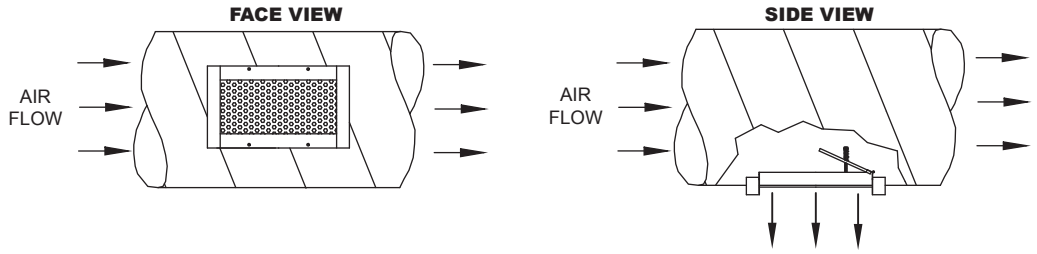
** For further information regarding entrained jets, reference ASHRAE Handbook Fundamentals.*

5DMGPR Dimensional Data

5DMGPR, FACE VIEW, SIDE VIEW, & CROSS SECTIONS



5DMGPR, AIRFLOW DESCRIPTIONS



5DMGPR Dimensional Details

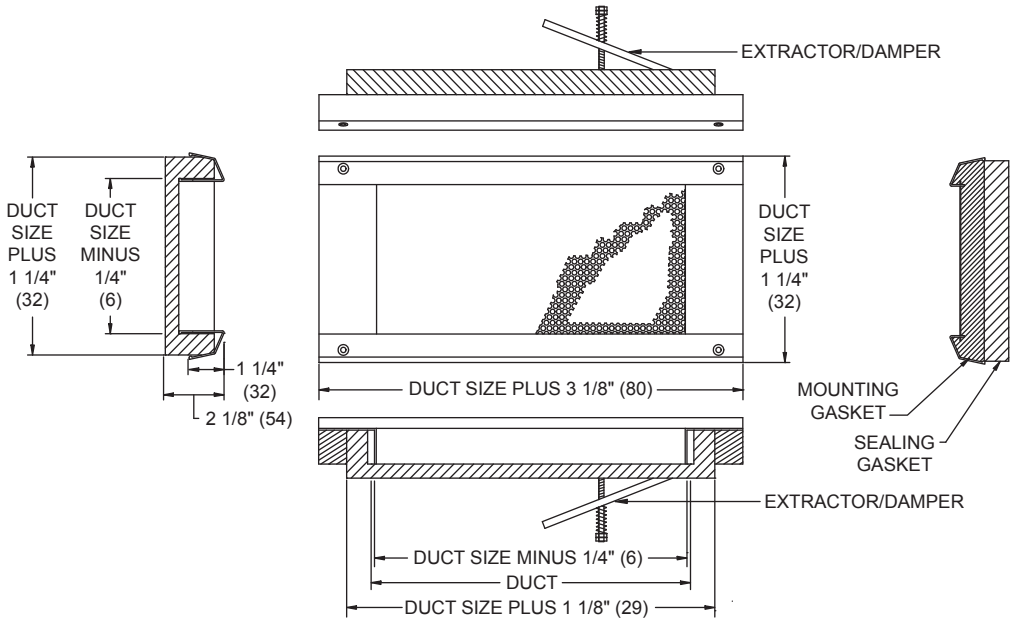
5DMGPR, AVAILABLE SIZES & MINIMUM DUCT DIAMETERS

		Width										
		10" (254)	**12" (305)**	**14" (356)**	**16" (406)**	**18" (457)**	**20" (508)**	**24" (610)**	**30" (762)**	**36" (914)**	**42" (1067)**	**48" (1219)**
Height	**3" (76)**	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)
	4" (102)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)
	6" (152)	8" (203)	8" (203)	8" (203)	8" (203)	8" (203)	8" (203)	8" (203)	8" (203)	8" (203)	8" (203)	8" (203)
	8" (203)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)
	10" (254)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)
	12" (305)	-	14" (356)	14" (356)	14" (356)	14" (356)	14" (356)	14" (356)	14" (356)	14" (356)	14" (356)	14" (356)

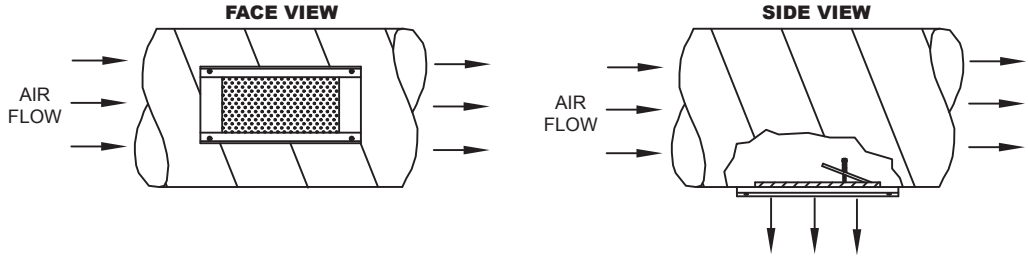
NOTES: Dimensions in parentheses are mm. Maximum duct diameter for all sizes is 36" (914). Duct diameter available in 2" increments. Dash in space indicates not available.

5DMGPU Dimensional Data

5DMGPU, FACE VIEW, SIDE VIEW, & CROSS SECTIONS



5DMGPU, AIRFLOW DESCRIPTIONS



5DMGPU Dimensional Details

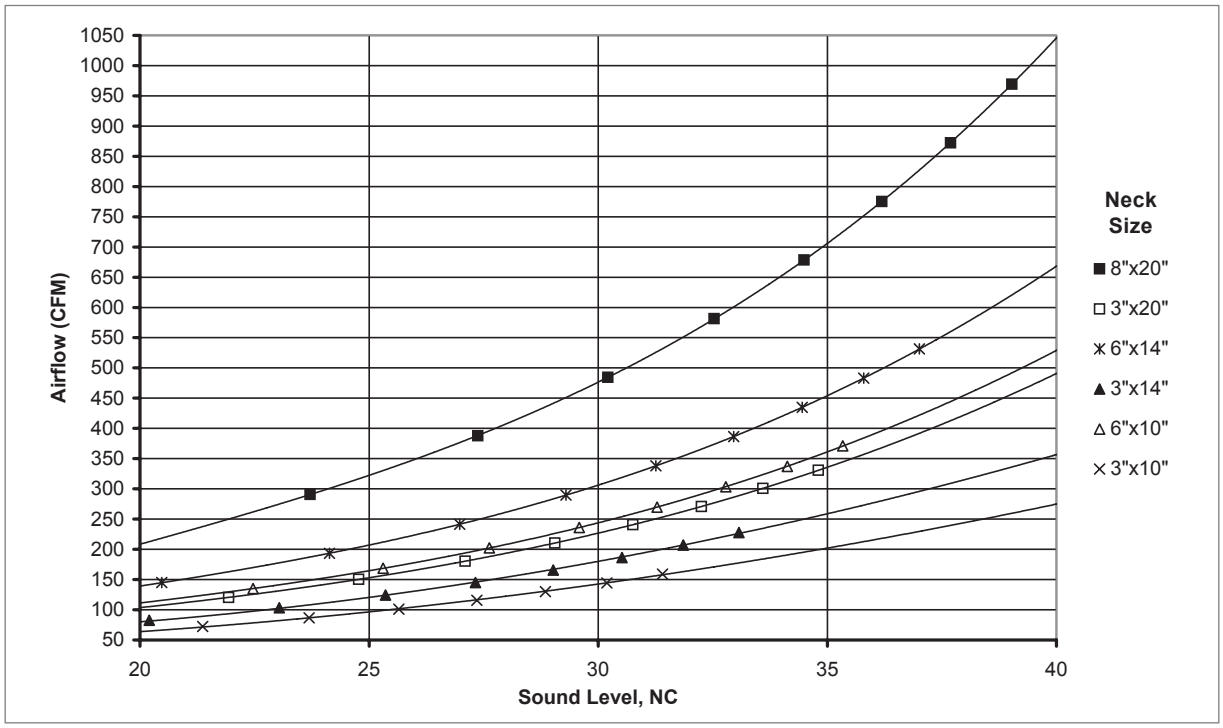
5DMGPU, AVAILABLE SIZES & MINIMUM DUCT DIAMETERS

		Width										
		10" (254)	**12" (305)**	**14" (356)**	**16" (406)**	**18" (457)**	**20" (508)**	**24" (610)**	**30" (762)**	**36" (914)**	**42" (1067)**	**48" (1219)**
Height	**3" (76)**	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)	6" (152)
	4" (102)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)	10" (254)
	6" (152)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)	12" (305)
	8" (203)	-	-	20" (508)	20" (508)	20" (508)	20" (508)	20" (508)	20" (508)	20" (508)	20" (508)	20" (508)
	10" (254)	-	-	-	24" (610)	24" (610)	24" (610)	24" (610)	24" (610)	24" (610)	24" (610)	24" (610)

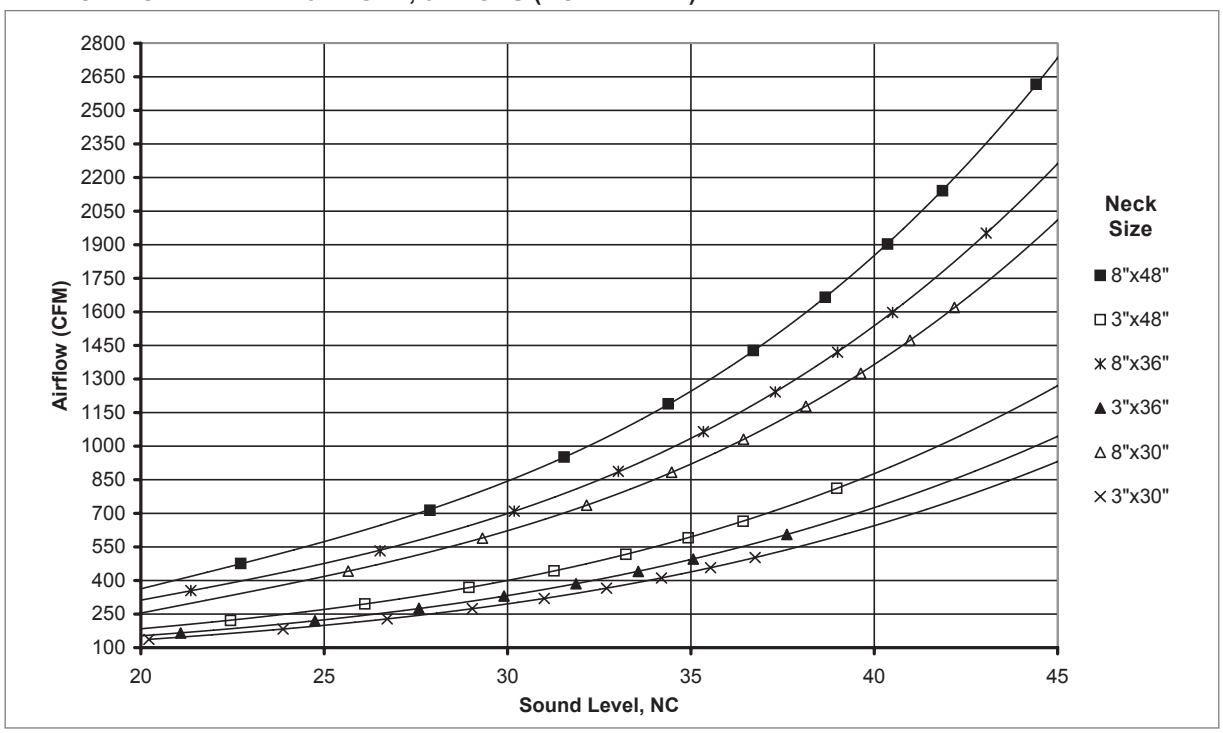
NOTES: Dimensions in parentheses are mm. Maximum duct diameter for all sizes is 36" (914). Duct diameter available in 2" increments. Dash in space indicates not available.

5DMGPR, 5DMGPU Reference Charts

AIRFLOW VS. NC LEVEL: 5DMGPR, 5DMGPU (NO DAMPER)



AIRFLOW VS. NC LEVEL: 5DMGPR, 5DMGPU (NO DAMPER)



5DMGPR, 5DMGPU Performance Data

ENTRAINED JET AIRFLOW IP & METRIC DATA: 5DMGPR, 5DMGPU (NO DAMPER)

IP Data						Metric Data											
Nom. Duct	Neck Vel	Air Flow	Entrained		NC	Nom. Duct	Neck Vel	Air Flow	Entrained		Octave Band, dB					
			Pt	Throw					Pt	Throw						
in	FPM	CFM	"WG	ft		mm	m/s	L/s	Pa	m	2	3	4	5	6	7
10" x 3"	300	43	.023	2 - 4 - 8	-	254 x 76	1.52	20	5.6	0.7 - 1.2 - 2.4	34	27	19	15	13	-
	400	58	.040	3 - 5 - 10	-		2.03	27	10.0	1.1 - 1.6 - 3.2	36	28	22	19	18	14
	500	72	.063	4 - 6 - 13	-		2.54	34	15.7	1.3 - 2.0 - 4.0	37	30	24	21	21	18
	600	87	.091	5 - 8 - 14	13		3.05	41	22.6	1.6 - 2.4 - 4.4	38	31	26	24	24	22
	700	101	.123	6 - 9 - 16	15		3.56	48	30.7	1.8 - 2.8 - 4.8	38	32	28	26	27	25
	800	116	.161	7 - 10 - 17	17		4.06	55	40.1	2.1 - 3.2 - 5.1	39	32	29	27	29	28
	900	130	.204	8 - 12 - 18	19		4.57	61	50.8	2.4 - 3.6 - 5.4	40	33	30	29	31	30
	1000	145	.252	9 - 13 - 19	21		5.08	68	62.7	2.6 - 4.0 - 5.7	40	34	31	30	32	32
	1100	159	.305	10 - 14 - 20	22		5.59	75	75.9	2.9 - 4.2 - 6.0	40	34	32	31	34	34
10" x 4"	300	63	.023	3 - 5 - 9	-	254 x 102	1.52	30	5.6	0.8 - 1.4 - 2.8	36	28	21	17	15	-
	400	84	.040	4 - 6 - 12	-		2.03	39	10.0	1.3 - 1.9 - 3.8	37	30	24	20	19	16
	500	104	.063	5 - 8 - 16	11		2.54	49	15.7	1.6 - 2.4 - 4.7	39	31	26	23	23	20
	600	125	.091	6 - 9 - 17	14		3.05	59	22.6	1.9 - 2.8 - 5.3	39	32	28	25	26	24
	700	146	.123	7 - 11 - 19	17		3.56	69	30.7	2.2 - 3.3 - 5.7	40	33	29	27	28	27
	800	167	.161	8 - 12 - 20	19		4.06	79	40.1	2.5 - 3.8 - 6.1	41	34	31	29	31	29
	900	188	.204	9 - 14 - 21	21		4.57	89	50.8	2.8 - 4.3 - 6.5	41	35	32	31	32	32
	1000	209	.252	10 - 16 - 22	22		5.08	99	62.7	3.2 - 4.7 - 6.8	42	35	33	32	34	34
	1100	230	.305	11 - 17 - 24	24		5.59	108	75.9	3.5 - 5.1 - 7.2	42	36	34	33	36	36
10" x 6"	300	101	.023	3 - 6 - 12	-	254 x 152	1.52	48	5.6	1.0 - 1.8 - 3.6	38	30	23	19	17	12
	400	135	.040	5 - 8 - 16	-		2.03	64	10.0	1.6 - 2.4 - 4.8	40	32	26	22	22	18
	500	169	.063	7 - 10 - 20	13		2.54	80	15.7	2.0 - 3.0 - 6.0	41	33	28	25	25	22
	600	202	.091	8 - 12 - 22	16		3.05	95	22.6	2.4 - 3.6 - 6.7	42	35	30	28	28	26
	700	236	.123	9 - 14 - 24	19		3.56	111	30.7	2.8 - 4.2 - 7.3	42	35	32	30	31	29
	800	270	.161	11 - 16 - 26	21		4.06	127	40.1	3.2 - 4.8 - 7.8	43	36	33	31	33	32
	900	304	.204	12 - 18 - 27	23		4.57	143	50.8	3.6 - 5.4 - 8.2	43	37	34	33	35	34
	1000	337	.252	13 - 20 - 29	24		5.08	159	62.7	4.0 - 6.0 - 8.7	44	38	35	34	36	36
	1100	371	.305	15 - 21 - 30	26		5.59	175	75.9	4.4 - 6.4 - 9.1	44	38	36	35	38	38
12" x 4"	300	76	.023	3 - 5 - 10	-	305 x 102	1.52	36	5.6	0.9 - 1.6 - 3.1	37	29	21	17	16	11
	400	102	.040	5 - 7 - 14	-		2.03	48	10.0	1.4 - 2.1 - 4.2	38	31	24	21	20	17
	500	127	.063	6 - 9 - 17	12		2.54	60	15.7	1.7 - 2.6 - 5.2	39	32	27	24	24	21
	600	152	.091	7 - 10 - 19	15		3.05	72	22.6	2.1 - 3.1 - 5.8	40	33	29	26	27	25
	700	178	.123	8 - 12 - 21	17		3.56	84	30.7	2.4 - 3.7 - 6.3	41	34	30	28	29	28
	800	203	.161	9 - 14 - 22	20		4.06	96	40.1	2.8 - 4.2 - 6.7	42	35	32	30	31	30
	900	229	.204	10 - 16 - 24	21		4.57	108	50.8	3.1 - 4.7 - 7.1	42	36	33	31	33	33
	1000	254	.252	11 - 17 - 25	23		5.08	120	62.7	3.5 - 5.2 - 7.5	43	36	34	33	35	35
	1100	279	.305	13 - 18 - 26	24		5.59	132	75.9	3.8 - 5.6 - 7.9	43	37	35	34	37	37
14" x 3"	300	62	.023	3 - 5 - 9	-	356 x 76	1.52	29	5.6	0.8 - 1.4 - 2.8	36	28	21	17	15	-
	400	83	.040	4 - 6 - 12	-		2.03	39	10.0	1.3 - 1.9 - 3.8	37	30	24	20	19	16
	500	104	.063	5 - 8 - 16	11		2.54	49	15.7	1.6 - 2.4 - 4.7	38	31	26	23	23	20
	600	124	.091	6 - 9 - 17	14		3.05	59	22.6	1.9 - 2.8 - 5.3	39	32	28	25	26	24
	700	145	.123	7 - 11 - 19	17		3.56	68	30.7	2.2 - 3.3 - 5.7	40	33	29	27	28	27
	800	166	.161	8 - 12 - 20	19		4.06	78	40.1	2.5 - 3.8 - 6.1	41	34	31	29	31	29
	900	186	.204	9 - 14 - 21	20		4.57	88	50.8	2.8 - 4.3 - 6.5	41	35	32	31	32	32
	1000	207	.252	10 - 16 - 22	22		5.08	98	62.7	3.2 - 4.7 - 6.8	42	35	33	32	34	34
	1100	228	.305	11 - 17 - 23	24		5.59	107	75.9	3.5 - 5.0 - 7.1	42	36	34	33	36	36
14" x 4"	300	90	.023	3 - 6 - 11	-	356 x 102	1.52	42	5.6	1.0 - 1.7 - 3.4	38	30	22	18	16	12
	400	120	.040	5 - 7 - 15	-		2.03	56	10.0	1.5 - 2.3 - 4.5	39	32	25	22	21	17
	500	150	.063	6 - 9 - 19	13		2.54	71	15.7	1.9 - 2.8 - 5.7	40	33	28	25	25	22
	600	179	.091	7 - 11 - 21	16		3.05	85	22.6	2.3 - 3.4 - 6.3	41	34	29	27	28	25
	700	209	.123	9 - 13 - 23	18		3.56	99	30.7	2.7 - 4.0 - 6.8	42	35	31	29	30	29
	800	239	.161	10 - 15 - 24	20		4.06	113	40.1	3.0 - 4.5 - 7.3	42	36	33	31	32	31
	900	269	.204	11 - 17 - 26	22		4.57	127	50.8	3.4 - 5.1 - 7.8	43	36	34	32	34	33
	1000	299	.252	12 - 19 - 27	24		5.08	141	62.7	3.8 - 5.7 - 8.2	43	37	35	34	36	36
	1100	329	.305	14 - 20 - 28	25		5.59	155	75.9	4.2 - 6.1 - 8.6	44	38	36	35	37	37

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). NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10^{-12} Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

5DMGPR, 5DMGPU Performance Data

ENTRAINED JET AIRFLOW IP & METRIC DATA: 5DMGPR, 5DMGPU (NO DAMPER)

IP Data						Metric Data											
Nom. Duct	Neck Vel	Air Flow	Entrained		NC	Nom. Duct	Neck Vel	Air Flow	Entrained		Octave Band, dB					
			Pt	Throw					Pt	Throw						
in	FPM	CFM	"WG	ft		mm	m/s	L/s	Pa	m	2	3	4	5	6	7
14" x 6"	300	145	.023	4 - 7 - 14	-	356 x 152	1.52	68	5.6	1.3 - 2.2 - 4.3	40	32	24	20	19	14
	400	193	.040	6 - 10 - 19	12		2.03	91	10.0	1.9 - 2.9 - 5.8	41	34	27	24	23	20
	500	242	.063	8 - 12 - 24	15		2.54	114	15.7	2.4 - 3.6 - 7.2	42	35	30	27	27	24
	600	290	.091	10 - 14 - 26	18		3.05	137	22.6	2.9 - 4.3 - 8.1	43	36	32	29	30	28
	700	338	.123	11 - 17 - 29	20		3.56	160	30.7	3.4 - 5.1 - 8.7	44	37	33	31	32	31
	800	386	.161	13 - 19 - 31	22		4.06	182	40.1	3.9 - 5.8 - 9.3	45	38	35	33	35	33
	900	435	.204	14 - 21 - 32	24		4.57	205	50.8	4.3 - 6.5 - 9.9	45	39	36	34	36	36
	1000	483	.252	16 - 24 - 34	26		5.08	228	62.7	4.8 - 7.2 - 10.4	46	39	37	36	38	38
	1100	531	.305	17 - 25 - 36	27		5.59	251	75.9	5.3 - 7.7 - 10.9	46	40	38	37	40	40
14" x 8"	300	200	.023	5 - 8 - 17	-	356 x 203	1.52	94	5.6	1.5 - 2.5 - 5.1	41	34	26	22	20	16
	400	267	.040	7 - 11 - 22	13		2.03	126	10.0	2.3 - 3.4 - 6.8	43	35	29	26	25	21
	500	334	.063	9 - 14 - 28	16		2.54	157	15.7	2.8 - 4.2 - 8.5	44	37	31	28	28	26
	600	400	.091	11 - 17 - 31	19		3.05	189	22.6	3.4 - 5.1 - 9.5	45	38	33	31	31	29
	700	467	.123	13 - 20 - 34	22		3.56	220	30.7	4.0 - 5.9 - 10.2	45	39	35	33	34	32
	800	534	.161	15 - 22 - 36	24		4.06	252	40.1	4.5 - 6.8 - 10.9	46	39	36	34	36	35
	900	600	.204	17 - 25 - 38	26		4.57	283	50.8	5.1 - 7.6 - 11.6	47	40	37	36	38	37
	1000	667	.252	19 - 28 - 40	27		5.08	315	62.7	5.7 - 8.5 - 12.2	47	41	39	37	40	39
	1100	734	.305	20 - 30 - 42	29		5.59	346	75.9	6.2 - 9.1 - 12.8	47	41	40	39	41	41
20" x 3"	300	90	.023	3 - 6 - 11	-	508 x 76	1.52	43	5.6	1.0 - 1.7 - 3.4	38	30	22	18	16	12
	400	120	.040	5 - 8 - 15	-		2.03	57	10.0	1.5 - 2.3 - 4.6	39	32	25	22	21	18
	500	150	.063	6 - 9 - 19	13		2.54	71	15.7	1.9 - 2.9 - 5.7	40	33	28	25	25	22
	600	180	.091	8 - 11 - 21	16		3.05	85	22.6	2.3 - 3.4 - 6.4	41	34	30	27	28	25
	700	211	.123	9 - 13 - 23	18		3.56	99	30.7	2.7 - 4.0 - 6.9	42	35	31	29	30	29
	800	241	.161	10 - 15 - 24	20		4.06	114	40.1	3.0 - 4.6 - 7.3	42	36	33	31	32	31
	900	271	.204	11 - 17 - 26	22		4.57	128	50.8	3.4 - 5.1 - 7.8	43	36	34	32	34	33
	1000	301	.252	13 - 19 - 27	24		5.08	142	62.7	3.8 - 5.7 - 8.2	43	37	35	34	36	36
	1100	331	.305	14 - 20 - 28	25		5.59	156	75.9	4.2 - 6.1 - 8.6	44	38	36	35	37	37
20" x 4"	300	130	.023	4 - 7 - 14	-	508 x 102	1.52	62	5.6	1.2 - 2.1 - 4.1	39	32	24	20	18	14
	400	174	.040	6 - 9 - 18	11		2.03	82	10.0	1.8 - 2.7 - 5.5	41	33	27	24	23	19
	500	217	.063	8 - 11 - 23	15		2.54	103	15.7	2.3 - 3.4 - 6.9	42	35	29	26	26	24
	600	261	.091	9 - 14 - 25	17		3.05	123	22.6	2.7 - 4.1 - 7.6	43	36	31	29	29	27
	700	304	.123	11 - 16 - 27	20		3.56	144	30.7	3.2 - 4.8 - 8.2	43	37	33	31	32	30
	800	348	.161	12 - 18 - 29	22		4.06	164	40.1	3.7 - 5.5 - 8.8	44	37	34	32	34	33
	900	391	.204	14 - 20 - 31	24		4.57	185	50.8	4.1 - 6.2 - 9.4	45	38	35	34	36	35
	1000	434	.252	15 - 23 - 32	25		5.08	205	62.7	4.6 - 6.9 - 9.9	45	39	37	35	38	37
	1100	478	.305	17 - 24 - 34	27		5.59	226	75.9	5.0 - 7.3 - 10.3	46	39	38	37	39	39
20" x 8"	300	291	.023	6 - 10 - 20	-	508 x 203	1.52	137	5.6	1.8 - 3.1 - 6.1	43	35	28	24	22	17
	400	388	.040	9 - 13 - 27	15		2.03	183	10.0	2.7 - 4.1 - 8.2	44	37	31	27	27	23
	500	485	.063	11 - 17 - 34	18		2.54	229	15.7	3.4 - 5.1 - 10.2	46	38	33	30	30	27
	600	582	.091	13 - 20 - 38	21		3.05	274	22.6	4.1 - 6.1 - 11.4	46	39	35	33	33	31
	700	678	.123	16 - 24 - 41	23		3.56	320	30.7	4.8 - 7.2 - 12.3	47	40	37	34	36	34
	800	775	.161	18 - 27 - 43	25		4.06	366	40.1	5.5 - 8.2 - 13.2	48	41	38	36	38	37
	900	872	.204	20 - 30 - 46	27		4.57	412	50.8	6.1 - 9.2 - 14.0	48	42	39	38	40	39
	1000	969	.252	22 - 34 - 48	29		5.08	457	62.7	6.8 - 10.2 - 14.7	49	42	40	39	41	41
	1100	1066	.305	25 - 36 - 51	30		5.59	503	75.9	7.5 - 10.9 - 15.4	49	43	41	40	43	43
20" x 12"	300	451	.023	7 - 13 - 25	12	508 x 305	1.52	213	5.6	2.2 - 3.8 - 7.6	45	37	30	26	24	19
	400	602	.040	11 - 17 - 34	17		2.03	284	10.0	3.4 - 5.1 - 10.2	46	39	33	29	29	25
	500	752	.063	14 - 21 - 42	20		2.54	355	15.7	4.2 - 6.4 - 12.7	48	40	35	32	32	30
	600	902	.091	17 - 25 - 47	23		3.05	426	22.6	5.1 - 7.6 - 14.2	48	41	37	35	35	33
	700	1053	.123	20 - 29 - 50	25		3.56	497	30.7	5.9 - 8.9 - 15.3	49	42	39	37	38	36
	800	1203	.161	22 - 34 - 54	27		4.06	568	40.1	6.8 - 10.2 - 16.4	50	43	40	38	40	39
	900	1354	.204	25 - 38 - 57	29		4.57	639	50.8	7.6 - 11.5 - 17.4	50	44	41	40	42	41
	1000	1504	.252	28 - 42 - 60	31		5.08	710	62.7	8.5 - 12.7 - 18.3	51	44	42	41	43	43
	1100	1654	.305	31 - 45 - 63	32		5.59	781	75.9	9.3 - 13.6 - 19.2	51	45	43	42	45	45

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). NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10^{-12} Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

5DMGPR, 5DMGPU Performance Data

ENTRAINED JET AIRFLOW IP & METRIC DATA: 5DMGPR, 5DMGPU (NO DAMPER)

IP Data						Metric Data											
Nom. Duct	Neck Vel	Air Flow	Entrained		NC	Nom. Duct	Neck Vel	Air Flow	Entrained		Octave Band, dB					
			Pt	Throw					Pt	Throw						
in	FPM	CFM	"WG	ft		mm	m/s	L/s	Pa	m	2	3	4	5	6	7
30" x 3"	300	137	.023	4 - 7 - 14	-	762 x 76	1.52	65	5.6	1.2 - 2.1 - 4.2	40	32	24	20	18	14
	400	183	.040	6 - 9 - 18	11		2.03	86	10.0	1.9 - 2.8 - 5.6	41	34	27	24	23	19
	500	229	.063	8 - 12 - 23	15		2.54	108	15.7	2.3 - 3.5 - 7.0	42	35	30	27	27	24
	600	274	.091	9 - 14 - 26	18		3.05	129	22.6	2.8 - 4.2 - 7.8	43	36	31	29	30	27
	700	320	.123	11 - 16 - 28	20		3.56	151	30.7	3.3 - 4.9 - 8.5	44	37	33	31	32	31
	800	366	.161	12 - 18 - 30	22		4.06	173	40.1	3.7 - 5.6 - 9.0	44	38	34	33	34	33
	900	411	.204	14 - 21 - 32	24		4.57	194	50.8	4.2 - 6.3 - 9.6	45	38	36	34	36	35
	1000	457	.252	15 - 23 - 33	26		5.08	216	62.7	4.7 - 7.0 - 10.1	45	39	37	36	38	38
	1100	503	.305	17 - 25 - 35	27		5.59	237	75.9	5.2 - 7.5 - 10.6	46	40	38	37	39	39
30" x 4"	300	198	.023	5 - 8 - 17	-	762 x 102	1.52	93	5.6	1.5 - 2.5 - 5.1	41	33	26	22	20	16
	400	264	.040	7 - 11 - 22	13		2.03	125	10.0	2.3 - 3.4 - 6.8	43	35	29	26	25	21
	500	330	.063	9 - 14 - 28	16		2.54	156	15.7	2.8 - 4.2 - 8.4	44	37	31	28	28	26
	600	396	.091	11 - 17 - 31	19		3.05	187	22.6	3.4 - 5.1 - 9.4	45	38	33	31	31	29
	700	462	.123	13 - 19 - 33	22		3.56	218	30.7	3.9 - 5.9 - 10.2	45	39	35	33	34	32
	800	528	.161	15 - 22 - 36	24		4.06	249	40.1	4.5 - 6.8 - 10.9	46	39	36	34	36	35
	900	594	.204	17 - 25 - 38	26		4.57	280	50.8	5.1 - 7.6 - 11.5	46	40	37	36	38	37
	1000	660	.252	19 - 28 - 40	27		5.08	312	62.7	5.6 - 8.4 - 12.2	47	41	39	37	40	39
	1100	726	.305	20 - 30 - 42	29		5.59	343	75.9	6.2 - 9.0 - 12.7	47	41	39	38	41	41
30" x 8"	300	442	.023	7 - 12 - 25	12	762 x 203	1.52	209	5.6	2.2 - 3.8 - 7.6	45	37	30	26	24	19
	400	589	.040	11 - 17 - 33	16		2.03	278	10.0	3.4 - 5.0 - 10.1	46	39	33	29	29	25
	500	736	.063	14 - 21 - 41	20		2.54	348	15.7	4.2 - 6.3 - 12.6	47	40	35	32	32	29
	600	884	.091	17 - 25 - 46	23		3.05	417	22.6	5.0 - 7.6 - 14.1	48	41	37	34	35	33
	700	1031	.123	19 - 29 - 50	25		3.56	487	30.7	5.9 - 8.8 - 15.2	49	42	38	36	38	36
	800	1178	.161	22 - 33 - 53	27		4.06	556	40.1	6.7 - 10.1 - 16.2	50	43	40	38	40	39
	900	1325	.204	25 - 37 - 57	29		4.57	626	50.8	7.6 - 11.4 - 17.2	50	44	41	40	42	41
	1000	1473	.252	28 - 41 - 60	31		5.08	695	62.7	8.4 - 12.6 - 18.1	51	44	42	41	43	43
	1100	1620	.305	30 - 44 - 63	32		5.59	765	75.9	9.2 - 13.5 - 19.0	51	45	43	42	45	45
30" x 12"	300	686	.023	9 - 16 - 31	14	762 x 305	1.52	324	5.6	2.7 - 4.7 - 9.4	47	39	32	28	26	21
	400	914	.040	14 - 21 - 41	18		2.03	431	10.0	4.2 - 6.3 - 12.6	48	41	35	31	31	27
	500	1143	.063	17 - 26 - 52	22		2.54	539	15.7	5.2 - 7.9 - 15.7	49	42	37	34	34	32
	600	1371	.091	21 - 31 - 58	25		3.05	647	22.6	6.3 - 9.4 - 17.5	50	43	39	37	37	35
	700	1600	.123	24 - 36 - 62	27		3.56	755	30.7	7.3 - 11.0 - 18.9	51	44	41	38	40	38
	800	1828	.161	28 - 41 - 67	29		4.06	863	40.1	8.4 - 12.6 - 20.2	52	45	42	40	42	41
	900	2057	.204	31 - 47 - 71	31		4.57	971	50.8	9.4 - 14.1 - 21.4	52	46	43	42	44	43
	1000	2285	.252	34 - 52 - 74	33		5.08	1078	62.7	10.5 - 15.7 - 22.6	53	46	44	43	45	45
	1100	2514	.305	38 - 55 - 78	34		5.59	1186	75.9	11.5 - 16.8 - 23.7	53	47	45	44	47	47
36" x 3"	200	110	.010	2 - 4 - 10	-	914 x 76	1.02	52	2.5	0.6 - 1.3 - 3.1	39	30	21	16	13	-
	300	165	.023	4 - 8 - 15	-		1.52	78	5.6	1.3 - 2.3 - 4.6	41	33	25	21	19	15
	400	220	.040	7 - 10 - 20	12		2.03	104	10.0	2.1 - 3.1 - 6.2	42	34	28	25	24	20
	500	275	.063	8 - 13 - 25	16		2.54	130	15.7	2.6 - 3.9 - 7.7	43	36	30	28	28	25
	600	330	.091	10 - 15 - 28	18		3.05	156	22.6	3.1 - 4.6 - 8.6	44	37	32	30	30	28
	700	386	.123	12 - 18 - 31	21		3.56	182	30.7	3.6 - 5.4 - 9.3	44	38	34	32	33	31
	800	441	.161	14 - 20 - 33	23		4.06	208	40.1	4.1 - 6.2 - 9.9	45	39	35	34	35	34
	900	496	.204	15 - 23 - 35	25		4.57	234	50.8	4.6 - 6.9 - 10.5	46	39	37	35	37	36
	1100	606	.305	19 - 27 - 38	28		5.59	286	75.9	5.7 - 8.2 - 11.6	47	40	39	38	40	40
36" x 4"	200	159	.010	2 - 5 - 12	-	914 x 102	1.02	75	2.5	0.7 - 1.6 - 3.7	40	32	23	18	14	-
	300	239	.023	5 - 9 - 18	-		1.52	113	5.6	1.6 - 2.8 - 5.6	42	34	27	23	21	16
	400	318	.040	8 - 12 - 24	14		2.03	150	10.0	2.5 - 3.7 - 7.4	44	36	30	26	26	22
	500	398	.063	10 - 15 - 30	17		2.54	188	15.7	3.1 - 4.6 - 9.3	45	37	32	29	29	27
	600	477	.091	12 - 18 - 34	20		3.05	225	22.6	3.7 - 5.6 - 10.3	45	38	34	32	32	30
	700	557	.123	14 - 21 - 37	22		3.56	263	30.7	4.3 - 6.5 - 11.2	46	39	36	34	35	33
	800	636	.161	16 - 24 - 39	25		4.06	300	40.1	4.9 - 7.4 - 11.9	47	40	37	35	37	36
	900	716	.204	18 - 27 - 42	26		4.57	338	50.8	5.6 - 8.3 - 12.7	47	41	38	37	39	38
	1100	875	.305	22 - 33 - 46	29		5.59	413	75.9	6.8 - 9.9 - 14.0	48	42	40	39	42	42

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). NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10^{-12} Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

5DMGPR, 5DMGPU Performance Data

ENTRAINED JET AIRFLOW IP & METRIC DATA: 5DMGPR, 5DMGPU (NO DAMPER)

IP Data						Metric Data											
Nom. Duct	Neck Vel	Air Flow	Entrained		NC	Nom. Duct	Neck Vel	Air Flow	Entrained		Octave Band, dB					
			Pt	Throw					Pt	Throw						
in	FPM	CFM	"WG	ft		mm	m/s	L/s	Pa	m	2	3	4	5	6	7
36" x 8"	200	355	.010	4 - 8 - 18	-	914 x 203	1.02	168	2.5	1.1 - 2.4 - 5.5	44	36	26	21	18	12
	300	532	.023	8 - 14 - 27	13		1.52	251	5.6	2.4 - 4.2 - 8.3	46	38	30	27	25	20
	400	710	.040	12 - 18 - 36	17		2.03	335	10.0	3.7 - 5.5 - 11.1	47	40	33	30	29	26
	500	887	.063	15 - 23 - 46	21		2.54	419	15.7	4.6 - 6.9 - 13.8	48	41	36	33	33	30
	600	1065	.091	18 - 27 - 51	24		3.05	503	22.6	5.5 - 8.3 - 15.4	49	42	38	35	36	34
	700	1242	.123	21 - 32 - 55	26		3.56	586	30.7	6.5 - 9.7 - 16.7	50	43	39	37	38	37
	800	1420	.161	24 - 36 - 59	28		4.06	670	40.1	7.4 - 11.1 - 17.8	50	44	41	39	41	40
	900	1597	.204	27 - 41 - 62	30		4.57	754	50.8	8.3 - 12.5 - 18.9	51	45	42	40	43	42
	1100	1952	.305	33 - 49 - 69	33		5.59	921	75.9	10.2 - 14.8 - 20.9	52	46	44	43	46	46
36" x 12"	200	551	.010	4 - 10 - 23	-	914 x 305	1.02	260	2.5	1.3 - 3.0 - 6.9	46	38	28	23	20	14
	300	826	.023	10 - 17 - 34	15		1.52	390	5.6	3.0 - 5.2 - 10.3	48	40	32	29	27	22
	400	1102	.040	15 - 23 - 45	19		2.03	520	10.0	4.6 - 6.9 - 13.8	49	42	36	32	31	28
	500	1377	.063	19 - 28 - 57	23		2.54	650	15.7	5.7 - 8.6 - 17.2	50	43	38	35	35	32
	600	1652	.091	23 - 34 - 63	25		3.05	780	22.6	6.9 - 10.3 - 19.2	51	44	40	37	38	36
	700	1928	.123	26 - 40 - 68	28		3.56	910	30.7	8.0 - 12.1 - 20.8	52	45	41	39	41	39
	800	2203	.161	30 - 45 - 73	30		4.06	1040	40.1	9.2 - 13.8 - 22.2	52	46	43	41	43	42
	900	2479	.204	34 - 51 - 77	32		4.57	1170	50.8	10.3 - 15.5 - 23.5	53	47	44	43	45	44
	1100	3029	.305	42 - 61 - 86	35		5.59	1430	75.9	12.6 - 18.4 - 26.0	54	48	46	45	48	48
48" x 3"	200	148	.010	2 - 5 - 12	-	1219 x 76	1.02	70	2.5	0.7 - 1.5 - 3.6	40	32	22	17	14	-
	300	221	.023	5 - 9 - 18	-		1.52	105	5.6	1.5 - 2.7 - 5.4	42	34	26	22	21	16
	400	295	.040	8 - 12 - 24	13		2.03	139	10.0	2.4 - 3.6 - 7.1	43	36	29	26	25	22
	500	369	.063	10 - 15 - 29	17		2.54	174	15.7	3.0 - 4.5 - 8.9	44	37	32	29	29	26
	600	443	.091	12 - 18 - 33	20		3.05	209	22.6	3.6 - 5.4 - 10.0	45	38	34	31	32	30
	700	517	.123	14 - 21 - 35	22		3.56	244	30.7	4.2 - 6.3 - 10.8	46	39	35	33	34	33
	800	591	.161	16 - 24 - 38	24		4.06	279	40.1	4.8 - 7.1 - 11.5	46	40	37	35	37	35
	900	664	.204	18 - 26 - 40	26		4.57	314	50.8	5.4 - 8.0 - 12.2	47	41	38	36	38	38
	1100	812	.305	22 - 31 - 44	29		5.59	383	75.9	6.5 - 9.5 - 13.5	48	42	40	39	42	42
48" x 4"	200	213	.010	3 - 6 - 14	-	1219 x 102	1.02	101	2.5	0.8 - 1.9 - 4.3	42	33	24	19	16	-
	300	320	.023	6 - 11 - 21	11		1.52	151	5.6	1.9 - 3.2 - 6.4	44	36	28	24	22	18
	400	427	.040	9 - 14 - 28	15		2.03	201	10.0	2.9 - 4.3 - 8.6	45	37	31	28	27	23
	500	533	.063	12 - 18 - 35	18		2.54	252	15.7	3.6 - 5.4 - 10.7	46	39	33	31	31	28
	600	640	.091	14 - 21 - 39	21		3.05	302	22.6	4.3 - 6.4 - 12.0	47	40	35	33	34	31
	700	746	.123	16 - 25 - 43	24		3.56	352	30.7	5.0 - 7.5 - 12.9	47	41	37	35	36	35
	800	853	.161	19 - 28 - 45	26		4.06	403	40.1	5.7 - 8.6 - 13.8	48	42	38	37	38	37
	900	960	.204	21 - 32 - 48	28		4.57	453	50.8	6.4 - 9.7 - 14.7	49	42	40	38	40	39
	1100	1173	.305	26 - 38 - 53	31		5.59	554	75.9	7.9 - 11.5 - 16.2	50	43	42	41	43	43
48" x 8"	200	476	.010	4 - 9 - 21	-	1219 x 203	1.02	225	2.5	1.2 - 2.8 - 6.4	45	37	28	23	20	14
	300	714	.023	9 - 16 - 32	14		1.52	337	5.6	2.8 - 4.8 - 9.6	47	39	32	28	26	22
	400	952	.040	14 - 21 - 42	19		2.03	449	10.0	4.3 - 6.4 - 12.8	49	41	35	32	31	27
	500	1189	.063	18 - 26 - 53	22		2.54	561	15.7	5.3 - 8.0 - 16.0	50	42	37	34	34	32
	600	1427	.091	21 - 32 - 59	25		3.05	674	22.6	6.4 - 9.6 - 17.9	50	43	39	37	37	35
	700	1665	.123	25 - 37 - 63	27		3.56	786	30.7	7.5 - 11.2 - 19.3	51	44	41	39	40	38
	800	1903	.161	28 - 42 - 68	29		4.06	898	40.1	8.5 - 12.8 - 20.6	52	45	42	40	42	41
	900	2141	.204	32 - 47 - 72	31		4.57	1010	50.8	9.6 - 14.4 - 21.9	52	46	43	42	44	43
	1100	2617	.305	39 - 56 - 80	34		5.59	1235	75.9	11.8 - 17.1 - 24.2	53	47	45	44	47	47

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). NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10^{-12} Watts. Dash in space denotes a NC or dB value of less than 10. Nominal duct is duct width. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

5DMGPR Suggested Specification & Configuration

1. SERIES: (XXXXX)
5DMGPR - 5/32" Diameter Holes on 3/16" Staggered Centers, Perforated Duct Mounted Grille

2. PATTERN: (X)
0 - None

3. WIDTH: (XX)
10" - 48" in 1" Increments

4. HEIGHT: (XX)
3" - Minimum Width 10"
4" - Minimum Width 10"
6" - Minimum Width 10"
8" - Minimum Width 14"
10" - Minimum Width 16"
12" - Minimum Width 18" (Maximum Width 36")

5. DUCT DIAMETER: (XX) *
6" to 36" - For Height of 3"
6" to 36" - For Height of 4"
8" to 36" - For Height of 6"
10" to 36" - For Height of 8"
12" to 36" - For Height of 10"
14" to 36" - For Height of 12"

6. DAMPER: (XX) **
00 - No Damper/Extractor
01 - Damper/Extractor

7. FINISH: (XX)
81 - Clear Anodize
01 - Mill
07 - Custom Color Match
10 - Alumican
35 - Black
44 - British White
49 - Off White
81 - Clear Anodize
84 - Light Bronze Anodize
85 - Medium Bronze Anodize
86 - Dark Bronze Anodize

* *Duct diameter available in 2" increments.*
** *Damper/Extractor must be ordered with the product; cannot be retrofitted.*

5DMGPR
The perforated duct mounted supply/return grille shall be a Krueger model 5DMGPR of the sizes shown on the plans or outlet schedule. This grille shall have a perforated face with 5/32" diameter holes on 3/16" centers resulting in a 63% free area and made of aluminum. The frame of the grille must be constructed of (.050" - .062") thick extruded aluminum with countersunk screw holes. The grille frame shall have a gasket to minimize air leakage due to perturbations in the duct. The end caps on the grille shall be curved to match the duct diameter. Standard flat grilles attached to saddle taps will not be acceptable.

Optional damper/extractor shall be available and made of .055" plate aluminum and be operable from the face of the supply grille. The damper/extractor shall be attached to the grille by use of a piano hinge. The damper/extractor, once adjusted, must keep the setting through the operating range of the grille as determined by catalog performance data.

PERFORMANCE
The manufacturer shall provide published (printed or electronic) performance data for the diffuser. Performance data shall include 2 - 7 octave band sound power levels. 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 81 Clear Anodize or #44 British White.

SAMPLE CONFIGURATION: 5DMGPR - 0 - 20 - 6 - 14 - 01 - 44

5DMGPU Suggested Specification & Configuration

5DMGPU

The perforated duct mounted supply/return grille shall be a Krueger model 5DMGPU of the sizes shown on the plans or outlet schedule. This grille shall have a perforated face with 5/32" diameter holes on 3/16" centers resulting in a 63% free area and made of aluminum. The frame of the grille must be constructed of (.050" - .062") thick extruded aluminum with countersunk screw holes. The grille frame shall have a gasket to minimize air leakage due to perturbations in the duct. The end caps on the grille shall be of a foam gasket material that can conform to the duct diameter. Standard flat grilles attached to saddle taps will not be acceptable.

Optional damper/extractor shall be available and made of .055" plate aluminum and be operable from the face of the supply grille. The damper/extractor shall be attached to the grille by use of a piano hinge. The damper/extractor, once adjusted, must keep the setting through the operating range of the grille as determined by catalog performance data.

PERFORMANCE

The manufacturer shall provide published (printed or electronic) performance data for the diffuser. Performance data shall include 2 - 7 octave band sound power levels. 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 81 Clear Anodize or #44 British White.

1. **SERIES: (XXXXX)**
   5DMGPU - 5/32" Diameter Holes on 3/16" Staggered Centers, Perforated Aluminum Duct Mounted Grille

2. **PATTERN: (X)**
   0 - None

3. **WIDTH: (XX)**
   10" - 48" in 1" Increments

4. **HEIGHT: (XX)**
   3" - Minimum Width 10"
   4" - Minimum Width 10"
   6" - Minimum Width 10"
   8" - Minimum Width 14"
   10" - Minimum Width 16"

5. **DUCT DIAMETER: (XX) ***
   6" to 36" - For Height of 3"
   10" to 36" - For Height of 4"
   12" to 36" - For Height of 6"
   20" to 36" - For Height of 8"
   24" to 36" - For Height of 10"

6. **DAMPER: (XX) ****
   00 - No Damper/Extractor
   01 - Damper/Extractor

7. **FINISH: (XX)**
   44 - British White
   81 - Clear Anodize

* *Duct diameter available in 2" increments.*
** *Damper/Extractor must be ordered with the product; cannot be retrofitted.*

SAMPLE CONFIGURATION: 5DMGPU - 0 - 36x8 - 24 - 01 - 81