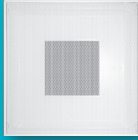




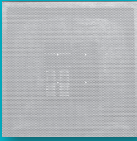

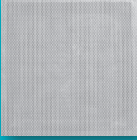



 <p>6100, 6150 56100, 56150 These perforated supply ceiling diffusers feature a neck mounted rotatable core with either a round or square neck. Aluminum or steel perforated face is available.</p>	 <p>6490, 56490 These perforated ceiling returns feature a square neck. Aluminum or steel perforated face is available.</p>
 <p>6200, 56200 6200FR, 6290F These perforated supply ceiling diffusers feature neck mounted curved blades with a square neck. Aluminum or steel perforated face is available. Fire rated or filter return variations available.</p>	 <p>6600, 56600, 6600FR These perforated supply ceiling diffusers feature face mounted deflectors with a round neck. Aluminum or steel perforated face is available. A fire rated variation is also available.</p>
 <p>6500, 56500 6500FR, 6590F These perforated supply ceiling diffusers feature neck mounted curved blades with a round neck. Aluminum or steel perforated face is available. Fire rated supply and return variations available.</p>	 <p>6690, 56690 These perforated ceiling returns feature a round neck. Aluminum or steel perforated face is available.</p>
 <p>6300 This perforated supply ceiling diffuser features face mounted deflectors and a prescored fiberglass backpan for field cutting. Available in steel construction only.</p>	 <p>6790, 56790 These aluminum or steel perforated screen ceiling panels with no backpan are great for non-ducted return or exhaust applications.</p>
 <p>6390 This perforated return features a prescored fiberglass backpan for field cutting. Available in steel construction only.</p>	 <p>1100, 51100 These architectural, perforated, supply ceiling diffusers feature neck mounted curved blades with a square or rectangular neck. Available in steel or aluminum construction. A metric version is also available.</p>
 <p>6400, 56400, 6400FR These perforated supply ceiling diffusers feature face mounted deflectors with a square neck. Aluminum or steel perforated face as well as a fire rated variations are available.</p>	 <p>1190, 51190 These architectural, perforated, ceiling returns feature a square or rectangular neck. Available in steel or aluminum construction.</p>

6100, 56100 (Supply)
6150, 56150 (Supply)
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 Performance Data..... C1-9
 Engineering Specifications..... C1-11

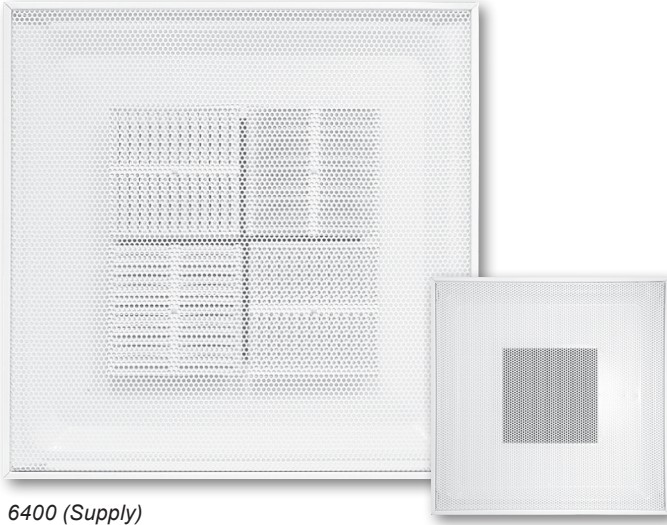
6200, 56200, 6200FR (Supply)
6290FR, 6290F (Return)
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 Frame Styles..... C1-14
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6500, 56500, 6500FR (Supply)
6590FR (Return)
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 Performance Data..... C1-33
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6300 (Supply)
6390 (Return)
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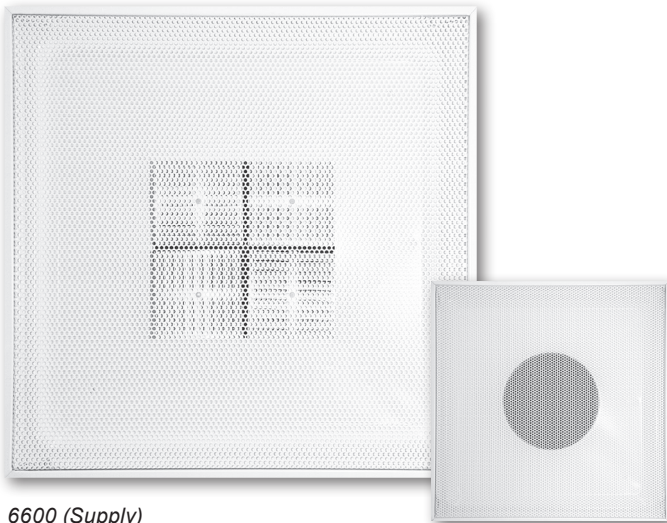
6400, 56400, 6400FR (Supply)
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6690, 56690 (Return)
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6400 (Supply)

6490 (Return)



6600 (Supply)

6690 (Return)

Introduction: 6400, 6600 Series

The 6400/6600 series perforated diffusers uses modular air pattern controllers mounted to the backside of the perforated face, which are factory set for 4-way air pattern. They are field adjustable for 1, 2, or 3-way pattern or may be removed for down blow without reducing the core area. The 6400/6600 series diffusers exhibit typical isothermal throws of 12' to 17' for 4-way air distribution and 21' to 30' for 1-way air distribution. The modular capability makes the 6400/6600 ideal for installations with changing air pattern requirements such as tenant lease spaces. Matching returns are the 6490 and 6690 series.

MODELS

- 6400 - Steel, Square Neck Supply Diffuser
- 6490 - Steel, Square Neck Return Diffuser
- 56400 - Perforated Aluminum with Steel Backpan, Square Neck Supply Diffuser
- 56490 - Perforated Aluminum with Steel Backpan, Square Neck Return Diffuser
- 6400FR - Steel, Fire Rated, Square Neck Supply Diffuser
- 6600 - Steel, Round Neck Supply Diffuser
- 6690 - Steel, Round Neck Return Diffuser
- 56600 - Perforated Aluminum with Steel Backpan, Round Neck Supply Diffuser
- 56690 - Perforated Aluminum with Steel Backpan, Round Neck Return Diffuser
- 6600FR - Steel, Fire Rated, Round Neck Supply Diffuser

FEATURES

- Field adjustable 1, 2, 3, or 4-way blow patterns.
- Great choice for installations with changing air pattern requirements.
- Removable perforated face for easy cleaning.

PANEL SIZES

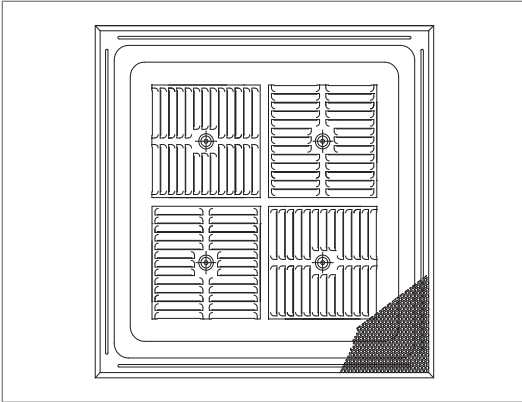
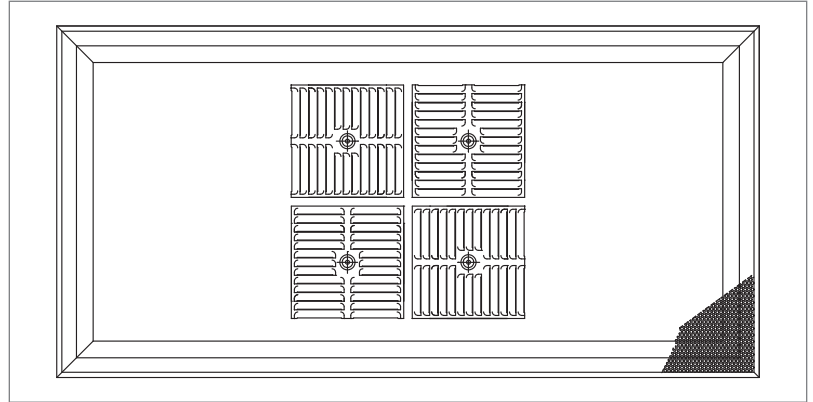
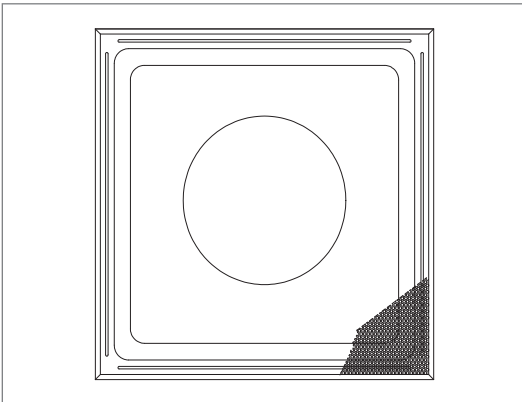
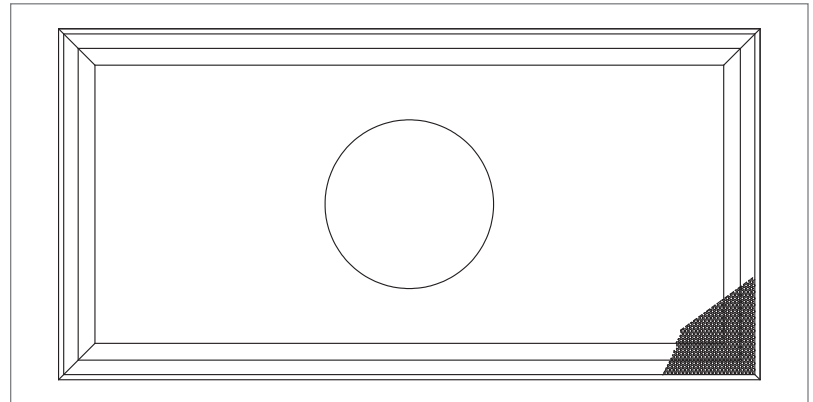
- 12"x12"
- 16"x16"
- 20"x20"
- 12"x24"
- 24"x24"
- 24"x48"

ACCESSORIES

- Optional Opposed Blade Damper (Model OBDFA)
- Optional Round Dampers
- Optional Insulated Backpan

FINISHES

- Standard finish is #44 British White.
- Optional finishes available.

6600, 56600, 6690, 56690 (Supply/Return) Dimensional Information
**6600, 56600, FACE VIEW
(12"x12" & 24"x24" PANEL)**

**6600, 56600, FACE VIEW
(ALL OTHER PANELS)**

**6690, 56690, FACE VIEW
(12"x12" & 24"x24" PANEL)**

**6690, 56690, FACE VIEW
(ALL OTHER PANELS)**

6600, 56600, 6690, 56690, AVAILABLE SIZES

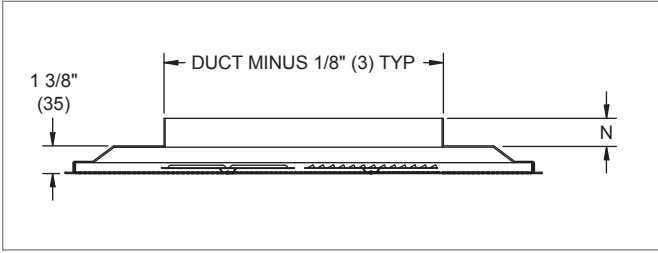
Neck Size	Panel Size											
	12" x 12" (305 x 305)		16" x 16" (406 x 406)		20" x 20" (508 x 508)		24" x 24" (610 x 610)		12" x 24" (305 x 610)		24" x 48" (610 x 1219)	
	Steel	Alum.	Steel	Alum.	Steel	Alum.	Steel	Alum.	Steel	Alum.	Steel	Alum.
6" (152)	S/R	S/R	S/R	-	S/R	-	S/R	S/R	S/R	S/R	S/R	S/R
8" (203)	-	-	S/R	-	S/R	-	S/R	S/R	-	-	S/R	S/R
10" (254)	-	-	S/R	-	S/R	-	S/R	S/R	-	-	S/R	S/R
12" (305)	-	-	-	-	S/R	-	S/R	S/R	-	-	S/R	S/R
14" (356)	-	-	-	-	S/R	-	S/R	S/R	-	-	S/R	S/R
16" (406)	-	-	-	-	-	-	S/R	S/R	-	-	S/R	S/R

NOTES: Dimensions in parentheses are mm. "S" = Supply and "R" = Return. Dash in space indicates not applicable.

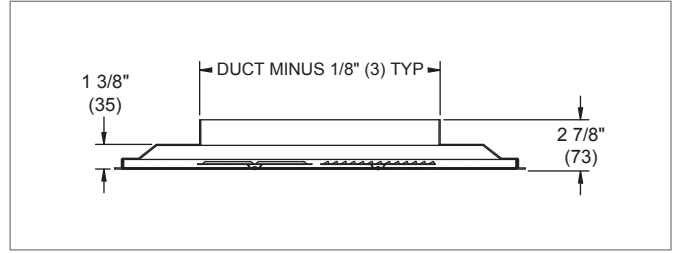
* 56600 and 56690 not available in 16"x16" and 20"x20" panels.

6600, 56600, 6690, 56690 (Supply/Return) Dimensional Information

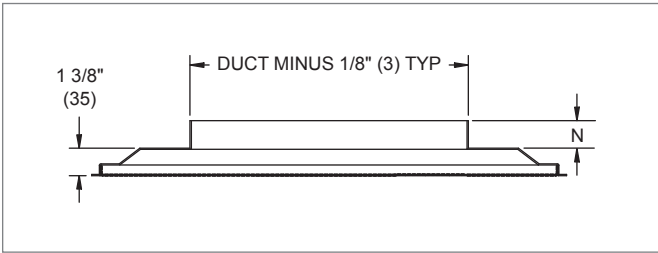
**6600, 56600, CROSS SECTION
(12"x12" & 24"x24" PANEL)**



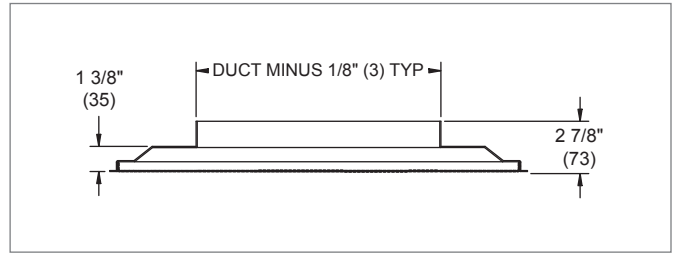
**6600, 56600*, CROSS SECTION
(ALL OTHER PANELS)**



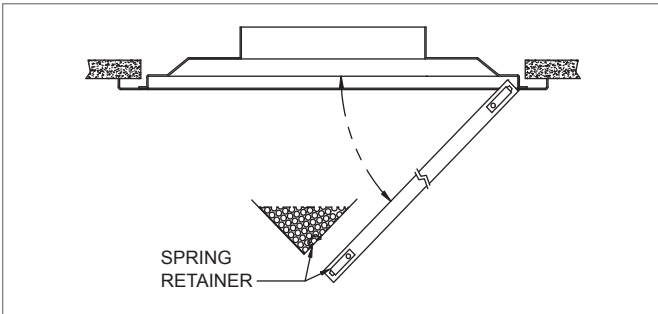
**6690, 56690, CROSS SECTION
(12"x12" & 24"x24" PANEL)**



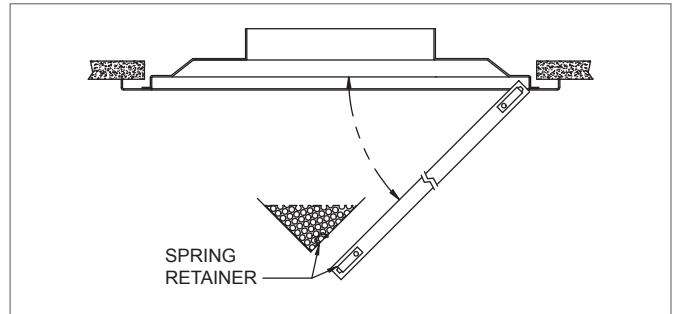
**6690, 56690*, CROSS SECTION
(ALL OTHER PANELS)**



**6600, 56600, 6690, 56690, HINGE DETAIL
(12"x12" & 24"x24" PANEL)**

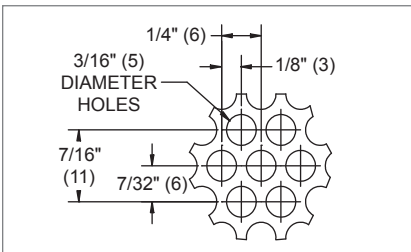


**6600, 6690, 56600*, 56690*, HINGE DETAIL
(ALL OTHER PANELS)**

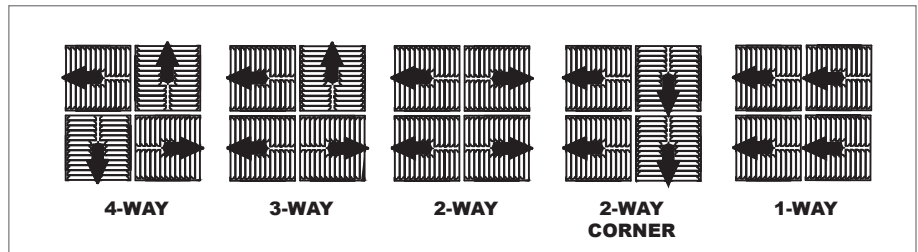


* 56600 and 56690 not available in 16"x16" and 20"x20" panels.

**6600, 56600, 6690, 56690,
PERFORATION DETAIL**



**6600, 56600,
DISCHARGE AIR PATTERNS**



**6600, 56600, INLET DETAIL
(24"x24" & 12"x12" PANELS)**

Inlet Size	N
6" & 8"	1 1/4" (32)
10", 12", 14", & 16"	1 1/2" (38)

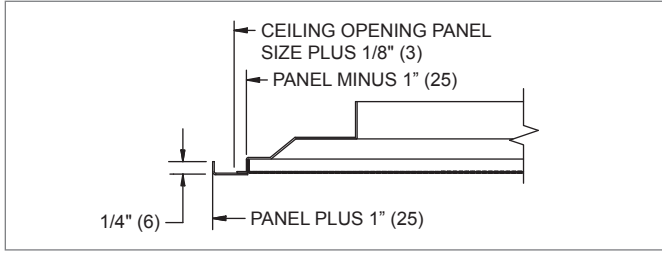
NOTE: Dimensions in parentheses are mm.

PERFORATED FACE DIFFUSERS

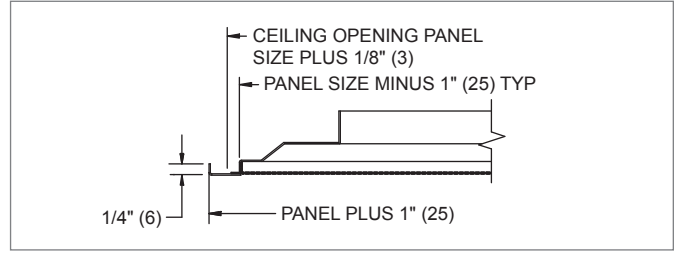
66000-16690

6690, 56690 (Return) Frame Styles

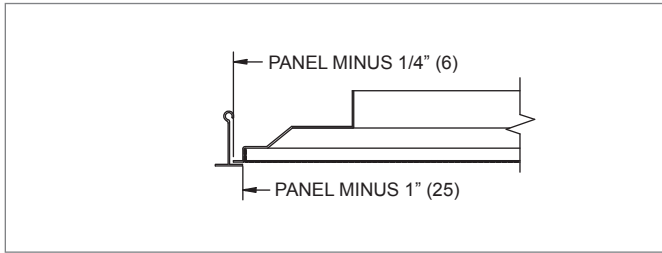
**6690, 56690, FRAME 20, SURFACE MOUNT
(12"x12" & 24"x24" PANEL)**



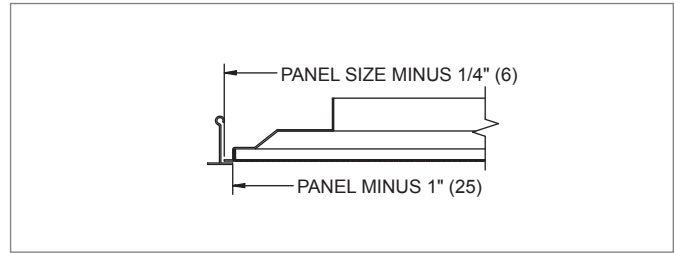
**6690, 56690, FRAME 20, SURFACE MOUNT
(ALL OTHER PANELS)**



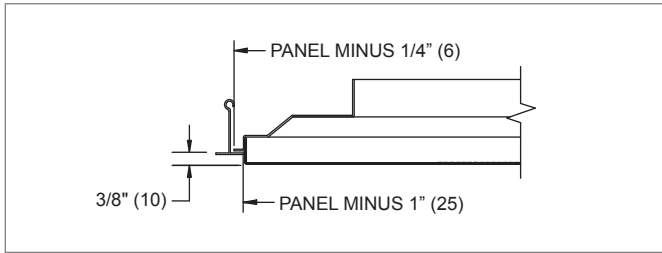
**6690, 56690, FRAME 23, LAY-IN T-BAR
(12"x12" & 24"x24" PANEL)**



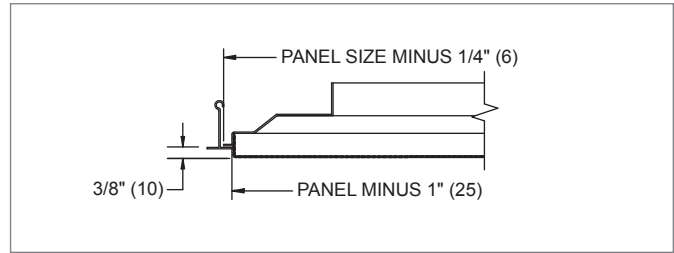
**6690, 56690, FRAME 23, LAY-IN T-BAR
(ALL OTHER PANELS)**



**6690, FRAME 30, DROP FACE
(12"x12" & 24"x24" PANEL)**

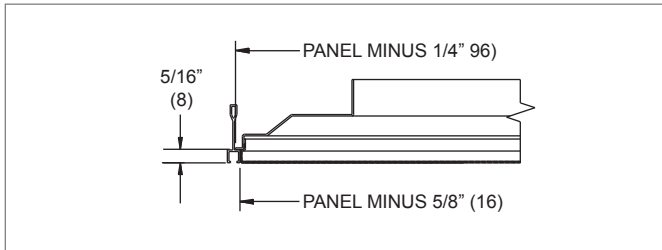


**6690, 56690, FRAME 30, DROP FACE
(ALL OTHER PANELS)**



* 56690 not available in 16"x16" and 20"x20" panels.

6690, FRAME 98, NARROW-T (24"x24" PANEL)



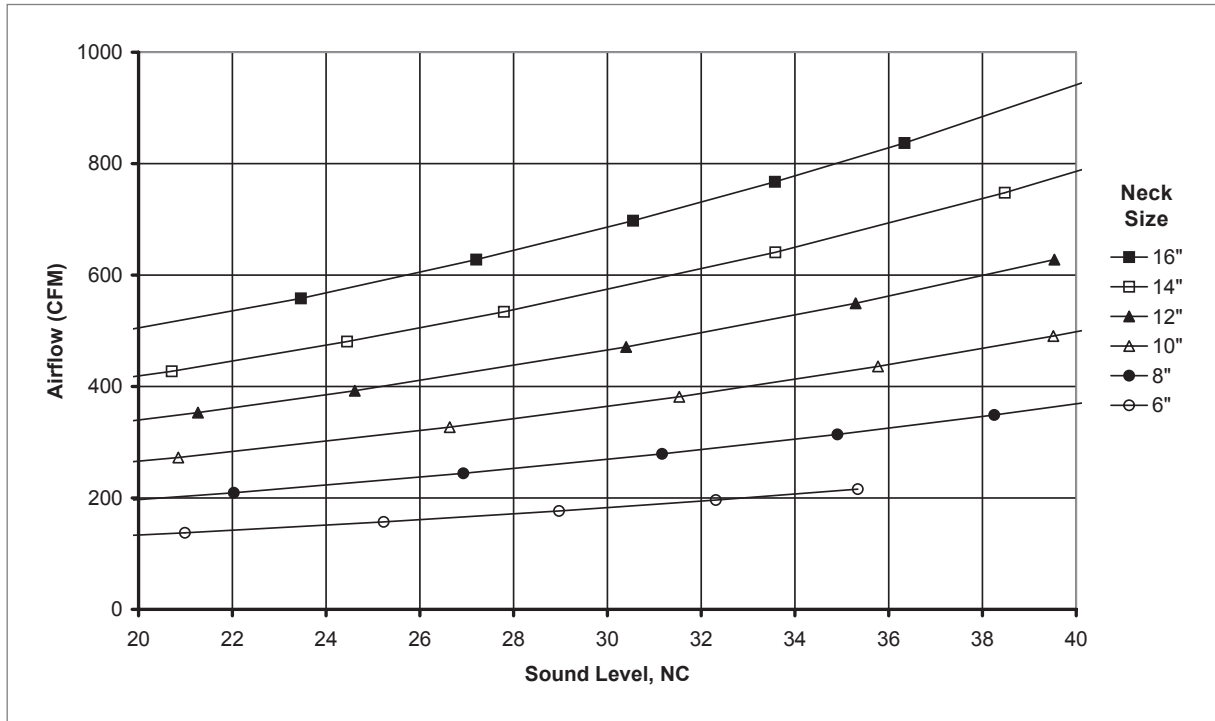
NOTE: Dimensions in parentheses are mm.

PERFORATED FACE DIFFUSERS

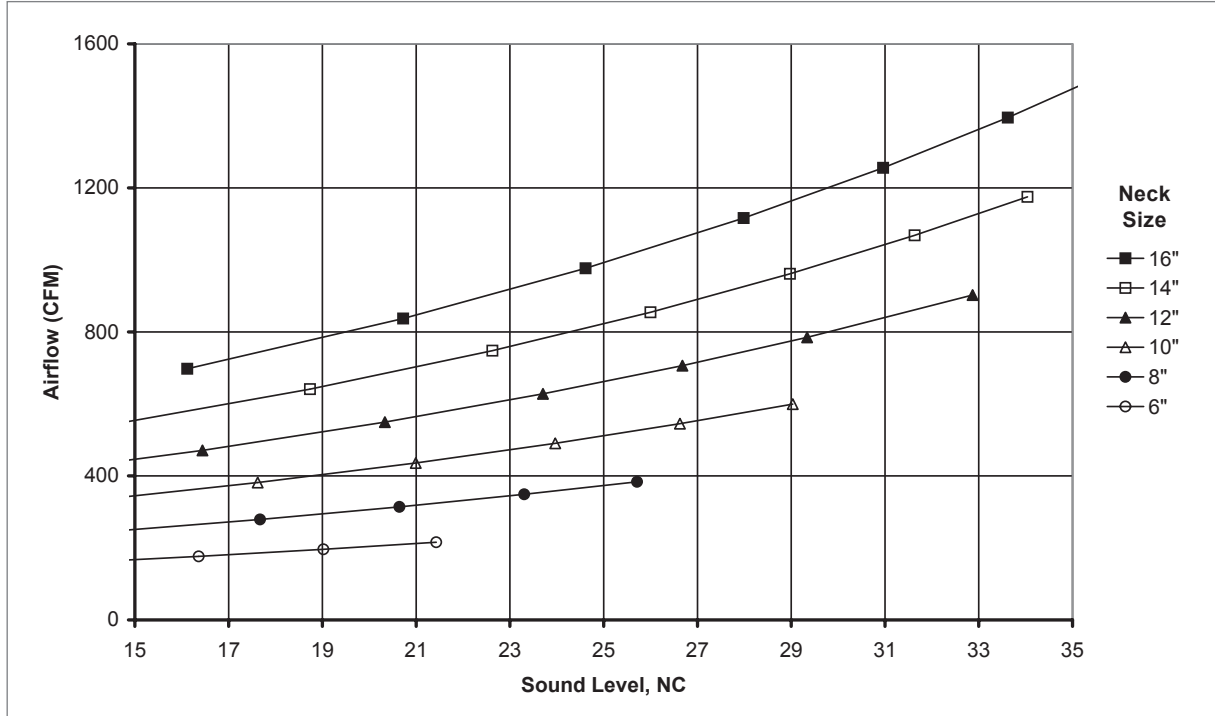
6690-156690

6600, 56600, 6690, 56690 (Supply/Return) Reference Charts

AIRFLOW VS. NC LEVEL: 6600, 56600, 24"x24" PANEL (NO DAMPER)



AIRFLOW VS. NC LEVEL: 6690, 56690, 24"x24" PANEL (NO DAMPER)



PERFORATED FACE DIFFUSERS

66000-6690

6690, 56690 (Return) Performance Data
IP/METRIC DATA: 6690, 56690, 12"x12" PANEL (NO DAMPER)

	IP Data				NC	Metric Data				Octave Band, dB						
	Neck Vel	Air Flow	Pv	Ps		Neck Vel	Air Flow	Pv	Ps	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG		m/s	L/s	Pa	Pa							
6"	300	59	0.006	-0.032	-	1.52	28	1.4	-7.9	37	20	-	-	-	-	
	400	78	0.010	-0.056	-	2.03	37	2.5	-14.0	39	24	16	11	-	-	
	500	98	0.016	-0.088	-	2.54	46	3.9	-21.9	40	28	21	16	-	-	
	600	118	0.022	-0.126	-	3.05	56	5.6	-31.5	41	30	25	20	15	-	
	700	137	0.031	-0.172	-	3.56	65	7.6	-42.8	41	33	28	23	19	12	
	800	157	0.040	-0.225	13	4.06	74	9.9	-55.9	42	35	30	26	23	17	
	900	177	0.051	-0.284	16	4.57	83	12.6	-70.8	43	37	33	28	26	22	
	1000	196	0.062	-0.351	19	5.08	93	15.5	-87.4	43	38	35	31	29	26	
	1100	216	0.075	-0.425	21	5.59	102	18.8	-105.8	44	40	37	33	31	29	

IP/METRIC DATA: 6690, 56690, 24"x12" PANEL (NO DAMPER)

	IP Data				NC	Metric Data				Octave Band, dB						
	Neck Vel	Air Flow	Pv	Ps		Neck Vel	Air Flow	Pv	Ps	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG		m/s	L/s	Pa	Pa							
6"	300	59	0.006	-0.032	-	1.52	28	1.4	-7.9	37	20	-	-	-	-	
	400	78	0.010	-0.056	-	2.03	37	2.5	-14.0	39	24	16	11	-	-	
	500	98	0.016	-0.088	-	2.54	46	3.9	-21.9	40	28	21	16	-	-	
	600	118	0.022	-0.126	-	3.05	56	5.6	-31.5	41	30	25	20	15	-	
	700	137	0.031	-0.172	-	3.56	65	7.6	-42.8	41	33	28	23	19	12	
	800	157	0.040	-0.225	13	4.06	74	9.9	-55.9	42	35	30	26	23	17	
	900	177	0.051	-0.284	16	4.57	83	12.6	-70.8	43	37	33	28	26	22	
	1000	196	0.062	-0.351	19	5.08	93	15.5	-87.4	43	38	35	31	29	26	
	1100	216	0.075	-0.425	21	5.59	102	18.8	-105.8	44	40	37	33	31	29	

IP/METRIC DATA: 6690, 16"x16" (NO DAMPER)

	IP Data				NC	Metric Data				Octave Band, dB						
	Neck Vel	Air Flow	Pv	Ps		Neck Vel	Air Flow	Pv	Ps	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG		m/s	L/s	Pa	Pa							
6"	300	59	0.006	-0.032	-	1.52	28	1.4	-7.9	37	20	-	-	-	-	
	400	78	0.010	-0.056	-	2.03	37	2.5	-14.0	39	24	16	11	-	-	
	500	98	0.016	-0.088	-	2.54	46	3.9	-21.9	40	28	21	16	-	-	
	600	118	0.022	-0.126	-	3.05	56	5.6	-31.5	41	30	25	20	15	-	
	700	137	0.031	-0.172	-	3.56	65	7.6	-42.8	41	33	28	23	19	12	
	800	157	0.040	-0.225	13	4.06	74	9.9	-55.9	42	35	30	26	23	17	
	900	177	0.051	-0.284	16	4.57	83	12.6	-70.8	43	37	33	28	26	22	
	1000	196	0.062	-0.351	19	5.08	93	15.5	-87.4	43	38	35	31	29	26	
	1100	216	0.075	-0.425	21	5.59	102	18.8	-105.8	44	40	37	33	31	29	
8"	300	105	0.006	-0.032	-	1.52	49	1.4	-7.9	39	21	12	-	-	-	
	400	140	0.010	-0.056	-	2.03	66	2.5	-14.0	41	25	17	13	-	-	
	500	174	0.016	-0.088	-	2.54	82	3.9	-21.8	42	28	22	18	13	-	
	600	209	0.022	-0.126	-	3.05	99	5.6	-31.4	43	31	26	22	18	-	
	700	244	0.031	-0.172	14	3.56	115	7.6	-42.8	44	34	29	25	22	16	
	800	279	0.040	-0.224	18	4.06	132	9.9	-55.9	44	36	31	28	26	21	
	900	314	0.051	-0.284	21	4.57	148	12.6	-70.7	45	37	34	30	29	25	
	1000	349	0.062	-0.351	23	5.08	165	15.5	-87.3	45	39	36	33	32	29	
10"	300	164	0.006	-0.032	-	1.52	77	1.4	-7.9	41	21	12	-	-	-	
	400	218	0.010	-0.056	-	2.03	103	2.5	-14.0	43	26	18	14	-	-	
	500	273	0.016	-0.088	-	2.54	129	3.9	-21.8	44	29	23	19	16	-	
	600	327	0.022	-0.126	14	3.05	154	5.6	-31.4	45	32	26	23	20	12	
	700	382	0.031	-0.172	18	3.56	180	7.6	-42.7	45	34	30	26	25	18	
	800	436	0.040	-0.224	21	4.06	206	9.9	-55.8	46	36	32	29	28	23	
	900	491	0.051	-0.284	24	4.57	231	12.6	-70.7	47	38	35	32	31	28	
	1000	545	0.062	-0.350	27	5.08	257	15.5	-87.2	47	40	37	34	34	32	
	1100	600	0.075	-0.424	29	5.59	283	18.8	-105.5	48	41	39	36	37	35	

NOTE: See page C1-90 for notes.

6690 (Return) Performance Data

IP/METRIC DATA: 6690, 20"x20" (NO DAMPER)

	IP Data				NC	Metric Data				Octave Band, dB						
	Neck Vel	Air Flow	Pv	Ps		Neck Vel	Air Flow	Pv	Ps	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG		m/s	L/s	Pa	Pa							
6"	300	59	0.006	-0.032	-	1.52	28	1.4	-7.9	37	20	-	-	-	-	
	400	78	0.010	-0.056	-	2.03	37	2.5	-14.0	39	24	16	11	-	-	
	500	98	0.016	-0.088	-	2.54	46	3.9	-21.9	40	28	21	16	-	-	
	600	118	0.022	-0.126	-	3.05	56	5.6	-31.5	41	30	25	20	15	-	
	700	137	0.031	-0.172	-	3.56	65	7.6	-42.8	41	33	28	23	19	12	
	800	157	0.040	-0.225	13	4.06	74	9.9	-55.9	42	35	30	26	23	17	
	900	177	0.051	-0.284	16	4.57	83	12.6	-70.8	43	37	33	28	26	22	
	1000	196	0.062	-0.351	19	5.08	93	15.5	-87.4	43	38	35	31	29	26	
8"	300	105	0.006	-0.032	-	1.52	49	1.4	-7.9	39	21	12	-	-	-	
	400	140	0.010	-0.056	-	2.03	66	2.5	-14.0	41	25	17	13	-	-	
	500	174	0.016	-0.088	-	2.54	82	3.9	-21.8	42	28	22	18	13	-	
	600	209	0.022	-0.126	-	3.05	99	5.6	-31.4	43	31	26	22	18	-	
	700	244	0.031	-0.172	14	3.56	115	7.6	-42.8	44	34	29	25	22	16	
	800	279	0.040	-0.224	18	4.06	132	9.9	-55.9	44	36	31	28	26	21	
	900	314	0.051	-0.284	21	4.57	148	12.6	-70.7	45	37	34	30	29	25	
	1000	349	0.062	-0.351	23	5.08	165	15.5	-87.3	45	39	36	33	32	29	
10"	300	164	0.006	-0.032	-	1.52	77	1.4	-7.9	41	21	12	-	-	-	
	400	218	0.010	-0.056	-	2.03	103	2.5	-14.0	43	26	18	14	-	-	
	500	273	0.016	-0.088	-	2.54	129	3.9	-21.8	44	29	23	19	16	-	
	600	327	0.022	-0.126	14	3.05	154	5.6	-31.4	45	32	26	23	20	12	
	700	382	0.031	-0.172	18	3.56	180	7.6	-42.7	45	34	30	26	25	18	
	800	436	0.040	-0.224	21	4.06	206	9.9	-55.8	46	36	32	29	28	23	
	900	491	0.051	-0.284	24	4.57	231	12.6	-70.7	47	38	35	32	31	28	
	1000	545	0.062	-0.350	27	5.08	257	15.5	-87.2	47	40	37	34	34	32	
12"	300	235	0.006	-0.031	-	1.52	111	1.4	-7.8	43	22	13	-	-	-	
	400	314	0.010	-0.056	-	2.03	148	2.5	-13.9	44	26	19	16	12	-	
	500	392	0.016	-0.087	12	2.54	185	3.9	-21.8	45	29	23	20	18	-	
	600	471	0.022	-0.126	16	3.05	222	5.6	-31.4	46	32	27	24	22	14	
	700	549	0.031	-0.171	20	3.56	259	7.6	-42.7	47	35	30	28	26	20	
	800	628	0.040	-0.224	24	4.06	296	9.9	-55.7	48	37	33	31	30	25	
	900	706	0.051	-0.283	27	4.57	333	12.6	-70.6	48	38	35	33	33	30	
	1000	785	0.062	-0.350	29	5.08	370	15.5	-87.1	49	40	37	35	36	34	
14"	300	320	0.006	-0.031	-	1.52	151	1.4	-7.8	44	22	14	-	-	-	
	400	427	0.010	-0.056	-	2.03	202	2.5	-13.9	45	27	20	17	13	-	
	500	534	0.016	-0.087	14	2.54	252	3.9	-21.7	46	30	24	21	19	-	
	600	641	0.022	-0.126	19	3.05	302	5.6	-31.3	47	33	28	25	24	16	
	700	748	0.031	-0.171	23	3.56	353	7.6	-42.6	48	35	31	29	28	22	
	800	855	0.040	-0.224	26	4.06	403	9.9	-55.7	49	37	34	32	32	27	
	900	961	0.051	-0.283	29	4.57	454	12.6	-70.4	49	39	36	34	35	31	
	1000	1068	0.062	-0.349	32	5.08	504	15.5	-87.0	50	40	38	36	38	35	
	1100	1175	0.075	-0.423	34	5.59	555	18.8	-105.2	50	42	40	38	40	39	

NOTES: 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. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection software for performance data not shown, including octave band data.

PERFORATED FACE DIFFUSERS

6690, 56690 (Return) Performance Data

IP/METRIC DATA: 6690, 56690, 24"x24" (NO DAMPER)

	IP Data				NC	Metric Data				Octave Band, dB						
	Neck Vel	Air Flow	Pv	Ps		Neck Vel	Air Flow	Pv	Ps	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG		m/s	L/s	Pa	Pa							
6"	300	59	0.006	-0.032	-	1.52	28	1.4	-7.9	37	20	-	-	-	-	
	400	78	0.010	-0.056	-	2.03	37	2.5	-14.0	39	24	16	11	-	-	
	500	98	0.016	-0.088	-	2.54	46	3.9	-21.9	40	28	21	16	-	-	
	600	118	0.022	-0.126	-	3.05	56	5.6	-31.5	41	30	25	20	15	-	
	700	137	0.031	-0.172	-	3.56	65	7.6	-42.8	41	33	28	23	19	12	
	800	157	0.040	-0.225	13	4.06	74	9.9	-55.9	42	35	30	26	23	17	
	900	177	0.051	-0.284	16	4.57	83	12.6	-70.8	43	37	33	28	26	22	
	1000	196	0.062	-0.351	19	5.08	93	15.5	-87.4	43	38	35	31	29	26	
1100	216	0.075	-0.425	21	5.59	102	18.8	-105.8	44	40	37	33	31	29		
8"	300	105	0.006	-0.032	-	1.52	49	1.4	-7.9	39	21	12	-	-	-	
	400	140	0.010	-0.056	-	2.03	66	2.5	-14.0	41	25	17	13	-	-	
	500	174	0.016	-0.088	-	2.54	82	3.9	-21.8	42	28	22	18	13	-	
	600	209	0.022	-0.126	-	3.05	99	5.6	-31.4	43	31	26	22	18	-	
	700	244	0.031	-0.172	14	3.56	115	7.6	-42.8	44	34	29	25	22	16	
	800	279	0.040	-0.224	18	4.06	132	9.9	-55.9	44	36	31	28	26	21	
	900	314	0.051	-0.284	21	4.57	148	12.6	-70.7	45	37	34	30	29	25	
	1000	349	0.062	-0.351	23	5.08	165	15.5	-87.3	45	39	36	33	32	29	
1100	384	0.075	-0.424	26	5.59	181	18.8	-105.7	46	40	38	35	34	33		
10"	300	164	0.006	-0.032	-	1.52	77	1.4	-7.9	41	21	12	-	-	-	
	400	218	0.010	-0.056	-	2.03	103	2.5	-14.0	43	26	18	14	-	-	
	500	273	0.016	-0.088	-	2.54	129	3.9	-21.8	44	29	23	19	16	-	
	600	327	0.022	-0.126	14	3.05	154	5.6	-31.4	45	32	26	23	20	12	
	700	382	0.031	-0.172	18	3.56	180	7.6	-42.7	45	34	30	26	25	18	
	800	436	0.040	-0.224	21	4.06	206	9.9	-55.8	46	36	32	29	28	23	
	900	491	0.051	-0.284	24	4.57	231	12.6	-70.7	47	38	35	32	31	28	
	1000	545	0.062	-0.350	27	5.08	257	15.5	-87.2	47	40	37	34	34	32	
1100	600	0.075	-0.424	29	5.59	283	18.8	-105.5	48	41	39	36	37	35		
12"	300	235	0.006	-0.031	-	1.52	111	1.4	-7.8	43	22	13	-	-	-	
	400	314	0.010	-0.056	-	2.03	148	2.5	-13.9	44	26	19	16	12	-	
	500	392	0.016	-0.087	12	2.54	185	3.9	-21.8	45	29	23	20	18	-	
	600	471	0.022	-0.126	16	3.05	222	5.6	-31.4	46	32	27	24	22	14	
	700	549	0.031	-0.171	20	3.56	259	7.6	-42.7	47	35	30	28	26	20	
	800	628	0.040	-0.224	24	4.06	296	9.9	-55.7	48	37	33	31	30	25	
	900	706	0.051	-0.283	27	4.57	333	12.6	-70.6	48	38	35	33	33	30	
	1000	785	0.062	-0.350	29	5.08	370	15.5	-87.1	49	40	37	35	36	34	
1150	903	0.082	-0.463	33	5.84	426	20.5	-115.2	49	42	40	38	40	39		
14"	300	320	0.006	-0.031	-	1.52	151	1.4	-7.8	44	22	14	-	-	-	
	400	427	0.010	-0.056	-	2.03	202	2.5	-13.9	45	27	20	17	13	-	
	500	534	0.016	-0.087	14	2.54	252	3.9	-21.7	46	30	24	21	19	-	
	600	641	0.022	-0.126	19	3.05	302	5.6	-31.3	47	33	28	25	24	16	
	700	748	0.031	-0.171	23	3.56	353	7.6	-42.6	48	35	31	29	28	22	
	800	855	0.040	-0.224	26	4.06	403	9.9	-55.7	49	37	34	32	32	27	
	900	961	0.051	-0.283	29	4.57	454	12.6	-70.4	49	39	36	34	35	31	
	1000	1068	0.062	-0.349	32	5.08	504	15.5	-87.0	50	40	38	36	38	35	
1100	1175	0.075	-0.423	34	5.59	555	18.8	-105.2	50	42	40	38	40	39		
16"	300	419	0.006	-0.031	-	1.52	198	1.4	-7.8	45	23	14	11	-	-	
	400	558	0.010	-0.056	-	2.03	263	2.5	-13.9	46	27	20	17	15	-	
	500	698	0.016	-0.087	16	2.54	329	3.9	-21.7	48	30	25	22	21	11	
	600	837	0.022	-0.125	21	3.05	395	5.6	-31.2	48	33	28	26	25	18	
	700	977	0.031	-0.171	25	3.56	461	7.6	-42.5	49	35	31	30	29	23	
	800	1116	0.040	-0.223	28	4.06	527	9.9	-55.5	50	37	34	32	33	28	
	900	1256	0.051	-0.282	31	4.57	593	12.6	-70.3	50	39	36	35	36	33	
	1000	1395	0.062	-0.349	34	5.08	658	15.5	-86.8	51	41	39	37	39	37	
1100	1535	0.075	-0.422	36	5.59	724	18.8	-105.0	51	42	40	39	42	40		

NOTES: 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. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection software for performance data not shown, including octave band data.

6690, 56690 (Return) Performance Data

IP/METRIC DATA: 6690, 56690, 24"x48" (NO DAMPER)

PERFORATED FACE DIFFUSERS

	IP Data				NC	Metric Data				Octave Band, dB						
	Neck Vel	Air Flow	Pv	Ps		Neck Vel	Air Flow	Pv	Ps	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG		m/s	L/s	Pa	Pa							
6"	300	59	0.006	-0.032	-	1.52	28	1.4	-7.9	37	20	-	-	-	-	
	400	78	0.010	-0.056	-	2.03	37	2.5	-14.0	39	24	16	11	-	-	
	500	98	0.016	-0.088	-	2.54	46	3.9	-21.9	40	28	21	16	-	-	
	600	118	0.022	-0.126	-	3.05	56	5.6	-31.5	41	30	25	20	15	-	
	700	137	0.031	-0.172	-	3.56	65	7.6	-42.8	41	33	28	23	19	12	
	800	157	0.040	-0.225	13	4.06	74	9.9	-55.9	42	35	30	26	23	17	
	900	177	0.051	-0.284	16	4.57	83	12.6	-70.8	43	37	33	28	26	22	
	1000	196	0.062	-0.351	19	5.08	93	15.5	-87.4	43	38	35	31	29	26	
1100	216	0.075	-0.425	21	5.59	102	18.8	-105.8	44	40	37	33	31	29		
8"	300	105	0.006	-0.032	-	1.52	49	1.4	-7.9	39	21	12	-	-	-	
	400	140	0.010	-0.056	-	2.03	66	2.5	-14.0	41	25	17	13	-	-	
	500	174	0.016	-0.088	-	2.54	82	3.9	-21.8	42	28	22	18	13	-	
	600	209	0.022	-0.126	-	3.05	99	5.6	-31.4	43	31	26	22	18	-	
	700	244	0.031	-0.172	14	3.56	115	7.6	-42.8	44	34	29	25	22	16	
	800	279	0.040	-0.224	18	4.06	132	9.9	-55.9	44	36	31	28	26	21	
	900	314	0.051	-0.284	21	4.57	148	12.6	-70.7	45	37	34	30	29	25	
	1000	349	0.062	-0.351	23	5.08	165	15.5	-87.3	45	39	36	33	32	29	
1100	384	0.075	-0.424	26	5.59	181	18.8	-105.7	46	40	38	35	34	33		
10"	300	164	0.006	-0.032	-	1.52	77	1.4	-7.9	41	21	12	-	-	-	
	400	218	0.010	-0.056	-	2.03	103	2.5	-14.0	43	26	18	14	-	-	
	500	273	0.016	-0.088	-	2.54	129	3.9	-21.8	44	29	23	19	16	-	
	600	327	0.022	-0.126	14	3.05	154	5.6	-31.4	45	32	26	23	20	12	
	700	382	0.031	-0.172	18	3.56	180	7.6	-42.7	45	34	30	26	25	18	
	800	436	0.040	-0.224	21	4.06	206	9.9	-55.8	46	36	32	29	28	23	
	900	491	0.051	-0.284	24	4.57	231	12.6	-70.7	47	38	35	32	31	28	
	1000	545	0.062	-0.350	27	5.08	257	15.5	-87.2	47	40	37	34	34	32	
1100	600	0.075	-0.424	29	5.59	283	18.8	-105.5	48	41	39	36	37	35		
12"	300	235	0.006	-0.031	-	1.52	111	1.4	-7.8	43	22	13	-	-	-	
	400	314	0.010	-0.056	-	2.03	148	2.5	-13.9	44	26	19	16	12	-	
	500	392	0.016	-0.087	12	2.54	185	3.9	-21.8	45	29	23	20	18	-	
	600	471	0.022	-0.126	16	3.05	222	5.6	-31.4	46	32	27	24	22	14	
	700	549	0.031	-0.171	20	3.56	259	7.6	-42.7	47	35	30	28	26	20	
	800	628	0.040	-0.224	24	4.06	296	9.9	-55.7	48	37	33	31	30	25	
	900	706	0.051	-0.283	27	4.57	333	12.6	-70.6	48	38	35	33	33	30	
	1000	785	0.062	-0.350	29	5.08	370	15.5	-87.1	49	40	37	35	36	34	
1150	903	0.082	-0.463	33	5.84	426	20.5	-115.2	49	42	40	38	40	39		
14"	300	320	0.006	-0.031	-	1.52	151	1.4	-7.8	44	22	14	-	-	-	
	400	427	0.010	-0.056	-	2.03	202	2.5	-13.9	45	27	20	17	13	-	
	500	534	0.016	-0.087	14	2.54	252	3.9	-21.7	46	30	24	21	19	-	
	600	641	0.022	-0.126	19	3.05	302	5.6	-31.3	47	33	28	25	24	16	
	700	748	0.031	-0.171	23	3.56	353	7.6	-42.6	48	35	31	29	28	22	
	800	855	0.040	-0.224	26	4.06	403	9.9	-55.7	49	37	34	32	32	27	
	900	961	0.051	-0.283	29	4.57	454	12.6	-70.4	49	39	36	34	35	31	
	1000	1068	0.062	-0.349	32	5.08	504	15.5	-87.0	50	40	38	36	38	35	
1100	1175	0.075	-0.423	34	5.59	555	18.8	-105.2	50	42	40	38	40	39		
16"	300	419	0.006	-0.031	-	1.52	198	1.4	-7.8	45	23	14	11	-	-	
	400	558	0.010	-0.056	-	2.03	263	2.5	-13.9	46	27	20	17	15	-	
	500	698	0.016	-0.087	16	2.54	329	3.9	-21.7	48	30	25	22	21	11	
	600	837	0.022	-0.125	21	3.05	395	5.6	-31.2	48	33	28	26	25	18	
	700	977	0.031	-0.171	25	3.56	461	7.6	-42.5	49	35	31	30	29	23	
	800	1116	0.040	-0.223	28	4.06	527	9.9	-55.5	50	37	34	32	33	28	
	900	1256	0.051	-0.282	31	4.57	593	12.6	-70.3	50	39	36	35	36	33	
	1000	1395	0.062	-0.349	34	5.08	658	15.5	-86.8	51	41	39	37	39	37	
1100	1535	0.075	-0.422	36	5.59	724	18.8	-105.0	51	42	40	39	42	40		

NOTES: 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. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection software for performance data not shown, including octave band data.

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6600, 56600, 6690, 56690 (Supply/Return) Suggested Specification & Configuration -
1. SERIES: (XXXXX)

- 6600 - Round Neck, Steel Perforated Supply Diffuser with Face Mounted Deflectors
- 56600 - Round Neck, Aluminum Perforated Face, Steel Backpan Supply Diffuser with Face Mounted Deflectors
- 6690 - Round Neck, Steel Perforated Return
- 56690 - Round Neck, Aluminum Perforated Face, Steel Backpan Return

2. PATTERN: (XX)

- 04 - 4-Way
- 90 - Return

3. DIMENSION 1: (XX) *

- 6", 8", 10", 12", 14", or 16"

4. FRAME: (XXX)

- F20 - Surface Mount
- F23 - Lay-in T-Bar
- F30 - Drop Face
- F98 - Narrow-T *

5. PANEL: (XX)x(XX)

- | | |
|------------|------------|
| 12"x12" | 12"x24" |
| 16"x16" ** | 20"x20" ** |
| 24"x24" | 24"x48" |

6. ACCESSORIES: (XX)

- 00 - None
- IB - Insulated Backpan

7. FINISH: (XX)

- 01 - Mill
- 03 - Black Backpan with British White Face
- 10 - Alumican
- 35 - Black
- 44 - British White

Damper not included in configuration code.

* See chart on page C1-75 for available neck sizes.

** Models 56600/56690 not available in 16"x16" and 20"x20" panel sizes.

• Frame 98 only available with 24"x24" panel size.

6600, 56600

The perforated face supply diffuser shall be Krueger model 6600 (steel perforated face) or 56600 (aluminum perforated face). The diffusers shall have a perforated face with 3/16" diameter holes on 1/4" centers resulting in a 51% free area. The diffuser backpan shall be constructed of heavy gage steel and provide a round neck.

The diffuser shall have four separate pattern deflectors mounted on the back of the perforated face and be field adjustable to provide vertical or 1, 2, 3, or 4-way horizontal projection of air in to the room. The perforated face must be easily removable from the backpan for access to the pattern deflectors for adjustments or removal and access to the damper.

Optional round damper shall be constructed of heavy gage steel. Damper shall be operable from the face of the diffuser.

6690, 56690

The perforated face return diffuser shall be Krueger model 6690 (steel perforated face) or 56690 (aluminum perforated face). The diffusers shall have a perforated face with 3/16" diameter holes on 1/4" centers resulting in a 51% free area. The diffuser backpan shall be constructed of heavy gage steel and provide a round neck.

The return diffuser shall match the Krueger model 6600 (steel perforated face) or 56600 (aluminum perforated face) supply diffuser in appearance. The perforated face must be easily removable from the backpan for access to the damper.

Optional round damper shall be constructed of heavy gage steel. Damper shall be operable from the face of the diffuser.

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 #44 British White and be an anodic acrylic paint, baked at 315°F for 30 minutes. The paint thickness shall be 0.8 – 1.0 mils, gloss at 60° per ASTM D523-89 of 50 – 85%, pencil hardness per ASTM D3363-92A of HB – H, crosshatch adhesion per ASTM D3359-83 of 4B – 5B, impact per ASTM D2794-93 of direct impact >100 in/lb and reverse impact >80 in/lb, salt spray per ASTM B117-9048 of 96 hours, humidity per ASTM D2247-92 of >500 hours and water soak per ASTM D870-92 of 250 hours.