



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.



6490, 56490
These perforated ceiling returns feature a square neck. Aluminum or steel perforated face is available.



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.



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.



6500, 56500
6500FR, 6590FR
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.



6690, 56690
These perforated ceiling returns feature a round neck. Aluminum or steel perforated face is available.



6300
This perforated supply, ceiling diffuser features face mounted deflectors and a prescored fiberglass backpan for field cutting. Available in steel construction only.



6790, 56790
These aluminum or steel perforated screen ceiling panels with no backpan are great for non-ducted return or exhaust applications.



6390
This perforated return features a prescored fiberglass backpan for field cutting. Available in steel construction only.



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.



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.



1190, 51190
These architectural, perforated, ceiling returns feature a square or rectangular neck. Available in steel or aluminum construction.

6100, 56100 (Supply)**6150, 56150 (Supply)**

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6200, 56200, 6200FR (Supply)**6290FR, 6290F (Return)**

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6500, 56500, 6500FR (Supply)**6590FR (Return)**

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6300 (Supply)**6390 (Return)**

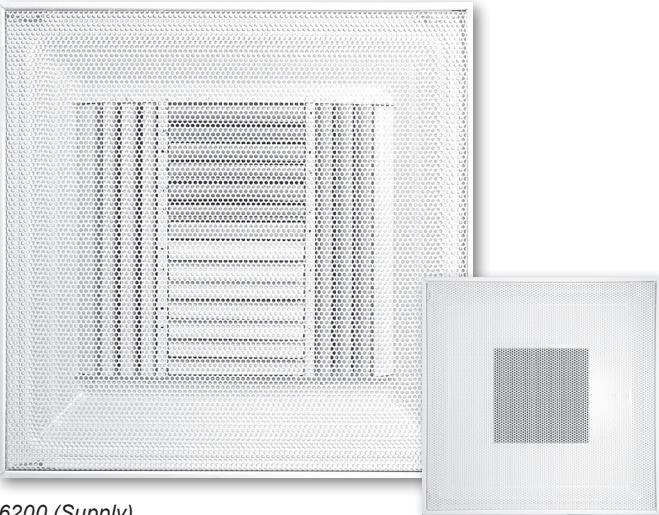
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6400, 56400, 6400FR (Supply)**6490, 56490 (Return)**

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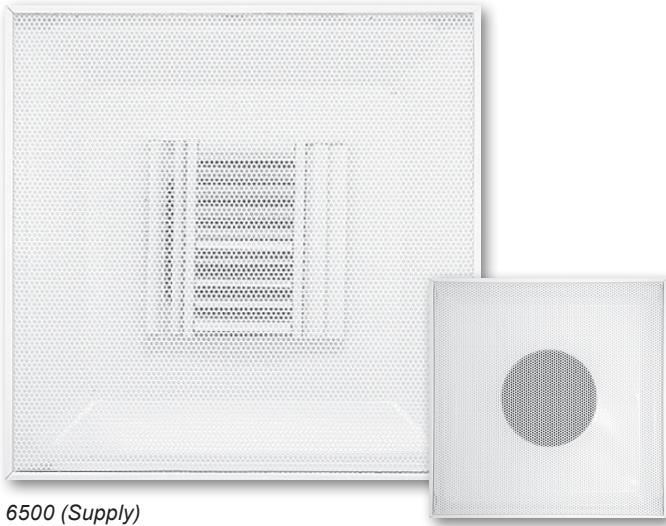
6600, 56600, 6600FR (Supply)**6690, 56690 (Return)**

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6200 (Supply)

6490 (Return)
See page C1-52 for
more information.



6500 (Supply)

6690 (Return)
See page C1-52 for
more information.

Introduction: 6200, 6500 Series

The 6200/6500 series perforated diffusers use blade-type pattern deflectors mounted on the backpan and are available in pre-selected 1, 2, 3, or 4-way blow patterns. Individually adjustable curved blades allow field adjustment of the air pattern in each direction, which may be field set to any position between a vertical throw and a tight ceiling, long throw pattern. The pattern deflectors on the backpan create aspiration of secondary air through the perforated face where it is mixed with primary air that is then discharged through the perforated face. This aspiration and mixing effect reduces the discharge air temperature to avoid cold air drafts. Additionally, it removes smudging material from the secondary air by impingement on the perforated face. Ceiling smudging of adjacent, hard to clean ceiling surfaces is greatly reduced. The 6200/6500 series diffusers exhibit typical isothermal throws of 8' to 20' for 4-way air distribution and 21' to 50' for 1-way air distribution making this diffuser an excellent choice for irregular room shapes. Matching returns are the 6490 and 6690 series.

MODELS

- 6200 - Steel Construction, Square Neck, Supply Diffuser
- 6200FR - Fire Rated, Steel Construction, Square Neck, Supply Diffuser
- 6290F - Steel Construction, Designed for Standard 20"x20"x1" Filter (By Others), Square Neck, Filter Return
- 6290FR - Fire Rated, Steel Construction, Square Neck Return
- 56200 - Aluminum Perforation with Steel Backpan, Square Neck, Supply Diffuser
- 6500 - Steel Construction, Round Neck, Supply Diffuser
- 6500FR - Fire Rated, Steel Construction, Round Neck, Supply Diffuser
- 56500 - Aluminum Perforation with Steel Backpan, Round Neck, Supply Diffuser
- 6590FR - Fire Rated, Steel Construction, Round Neck Return

FEATURES

- Individually adjustable curved blade pattern deflectors for horizontal to vertical throw.
- Variety of air discharge patterns available.
- Removable perforated face and core for easy cleaning.

PANEL SIZES

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

ACCESSORIES

- Optional Round Damper
- Optional Opposed Blade Damper (Model OBD)
- Optional Straightening Grid
- Optional Insulated Backpan

FINISHES

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

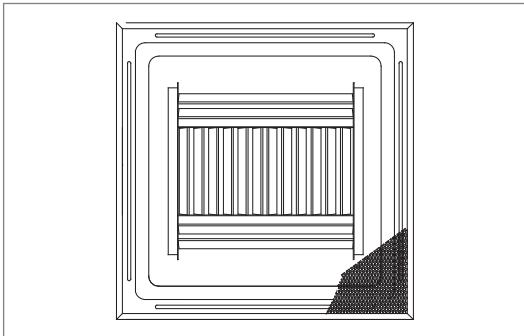
C1 PERFORATED FACE DIFFUSERS

6500, 56500 | Curved Blade

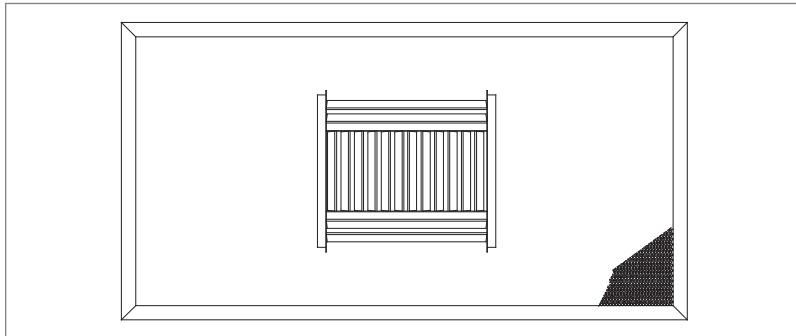


6500, 56500 (Supply) Dimensional Information

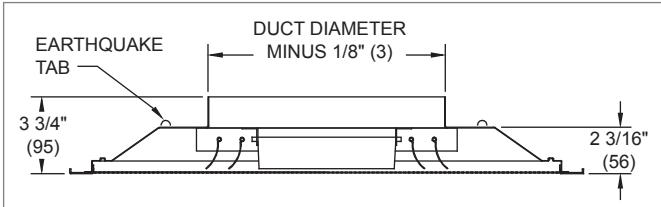
6500, 56500, FACE VIEW (24"x24" PANEL)



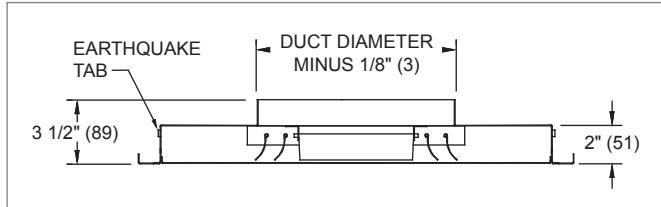
6500, 56500, FACE VIEW (ALL OTHER PANELS)



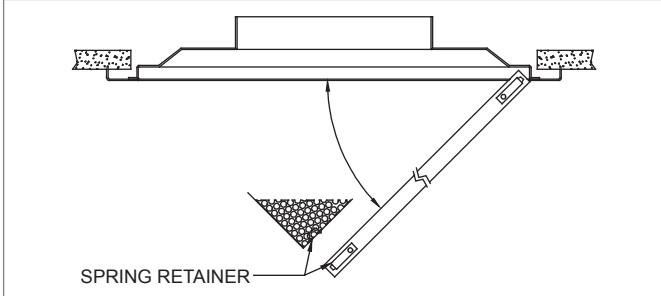
6500, 56500, CROSS SECTION (24"x24" PANEL)



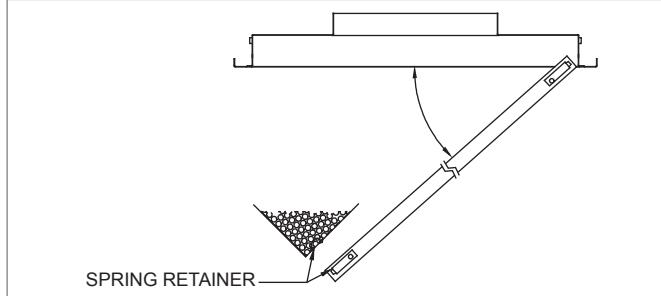
6500, 56500, CROSS SECTION (ALL OTHER PANELS)



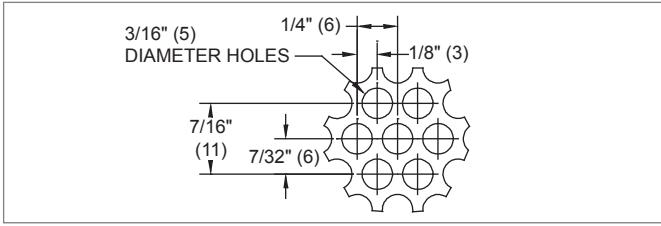
6500, 56500, HINGE DETAIL (24"x24" PANEL)



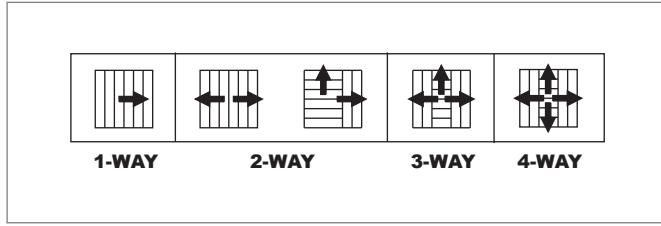
6500, 56500, HINGE DETAIL (ALL OTHER PANELS)



6500, 56500, PERFORATION DETAIL



6500, 56500, DISCHARGE AIR PATTERNS

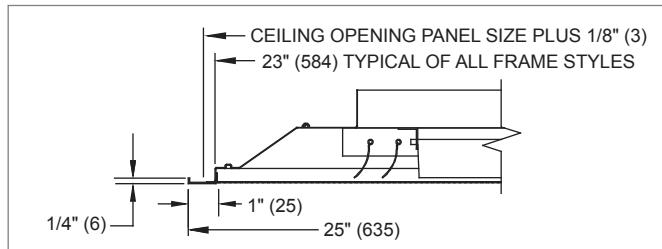
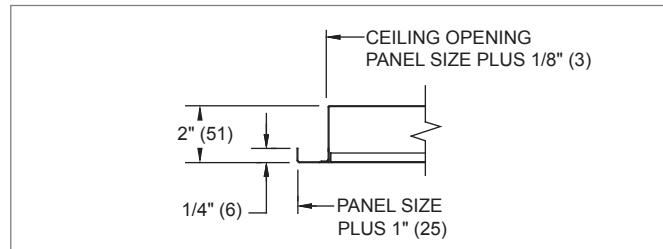
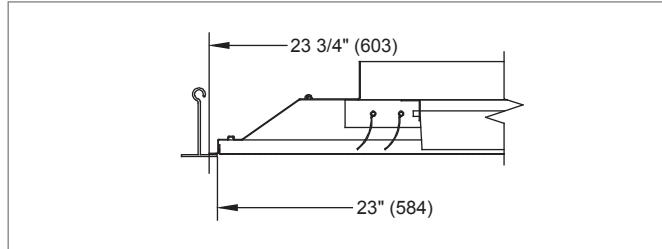
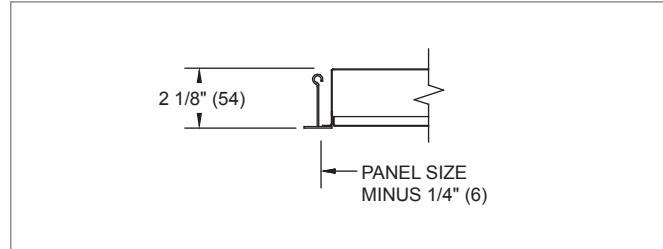
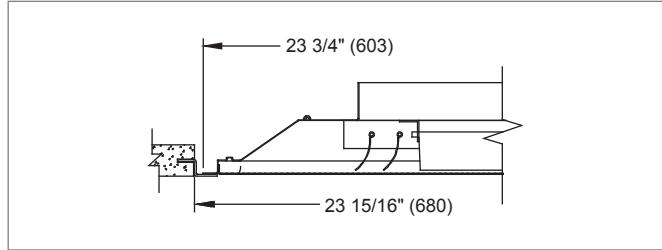
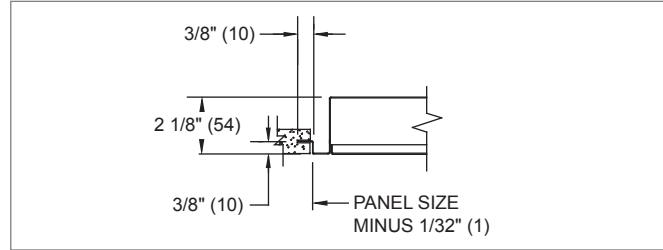
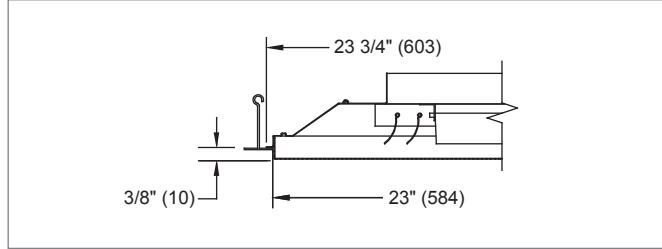
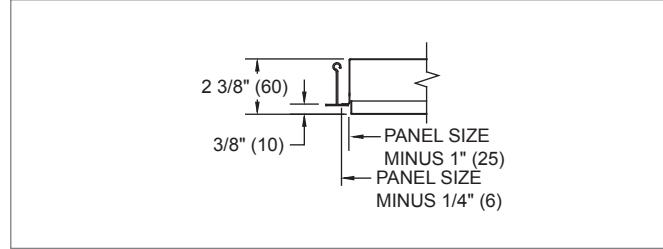
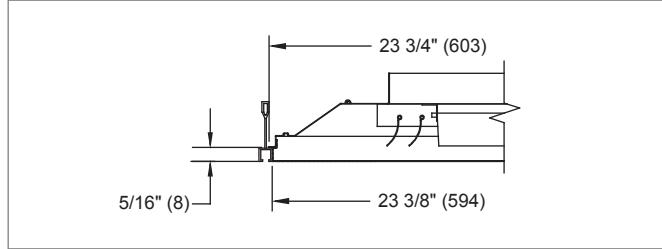
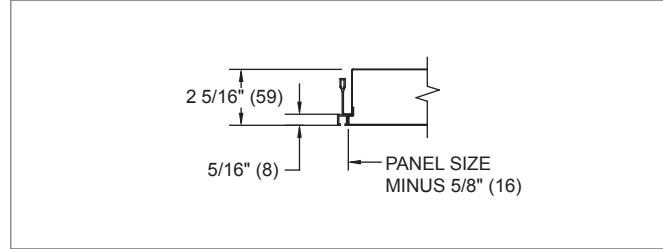


6500, 56500, AVAILABLE SIZES

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)
6" (152)	•	•	•	•	•	•
8" (203)		•	•	•		•
10" (254)		•	•	•		•
12" (305)			•	•		•
14" (356)				•		•
16" (406)				•		•

NOTES: Dimensions in parentheses are mm. Dot indicates applicable.

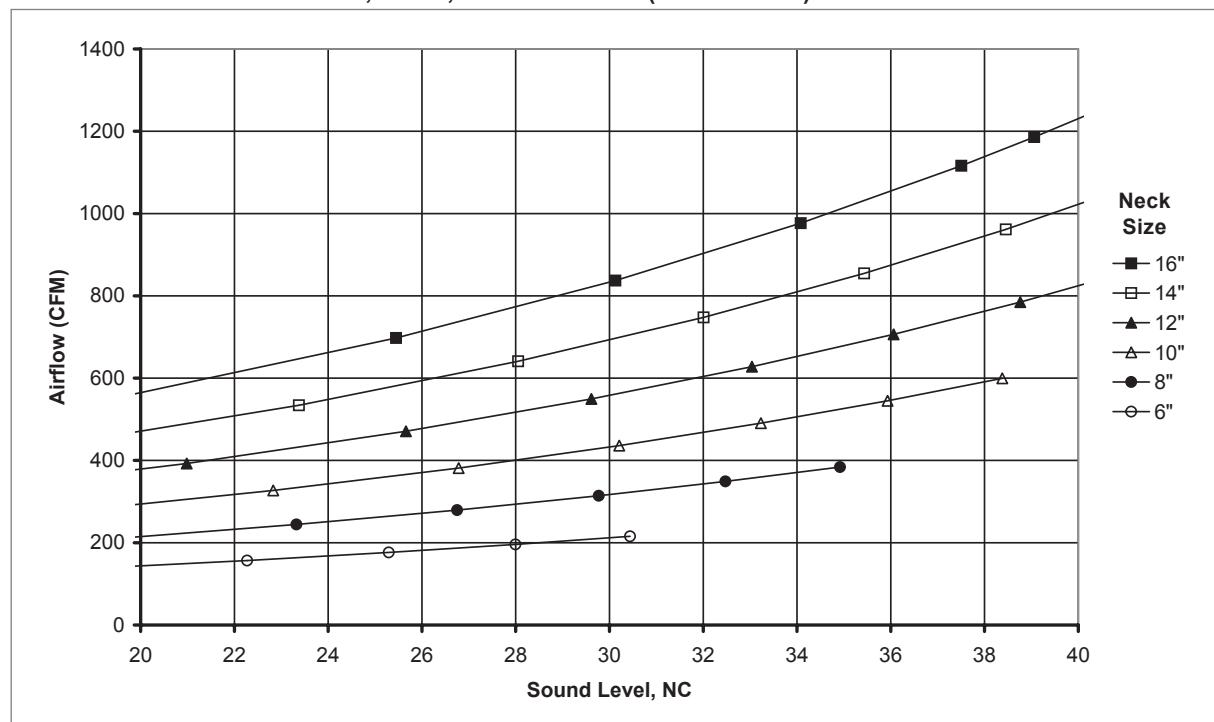
The 16" neck size with a 24"x24" panel is constructed like "All Other Panels".

6500, 56500 (Supply) Frame Styles
FRAME 20, SURFACE MOUNT (24"x24" PANEL)

FRAME 20, SURFACE MOUNT (ALL OTHER PANELS)

FRAME 23, LAY-IN T-BAR (24"x24" PANEL)

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

FRAME 27, SPLINE (24"x24" PANEL)

FRAME 27, SPLINE (ALL OTHER PANELS)

FRAME 30, DROP FACE (24"x24" PANEL)

FRAME 30, DROP FACE (ALL OTHER PANELS)

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

FRAME 98, NARROW-T (ALL OTHER PANELS)


NOTES: Dimensions in parentheses are mm. The 16" neck size with a 24"x24" panel is constructed like "All Other Panels".

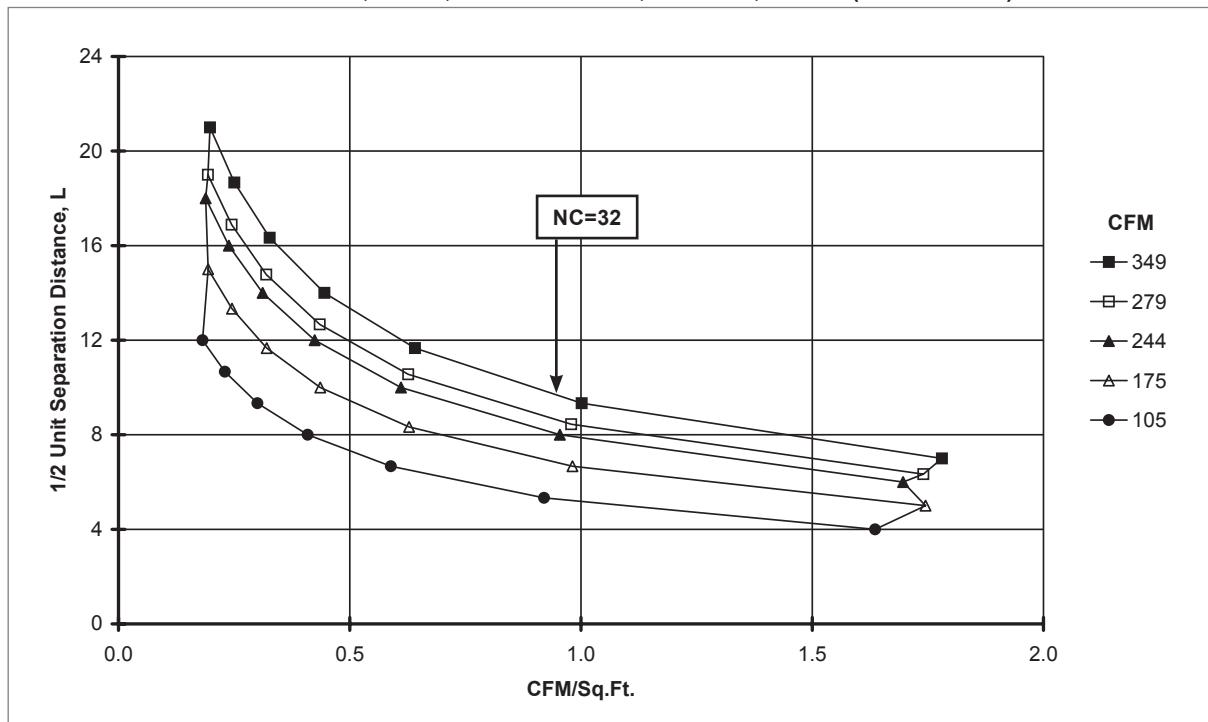
6500, 56500 (Supply) Reference Charts

AIRFLOW VS. NC LEVEL: 6500, 56500, 24"x24" PANEL (NO DAMPER)

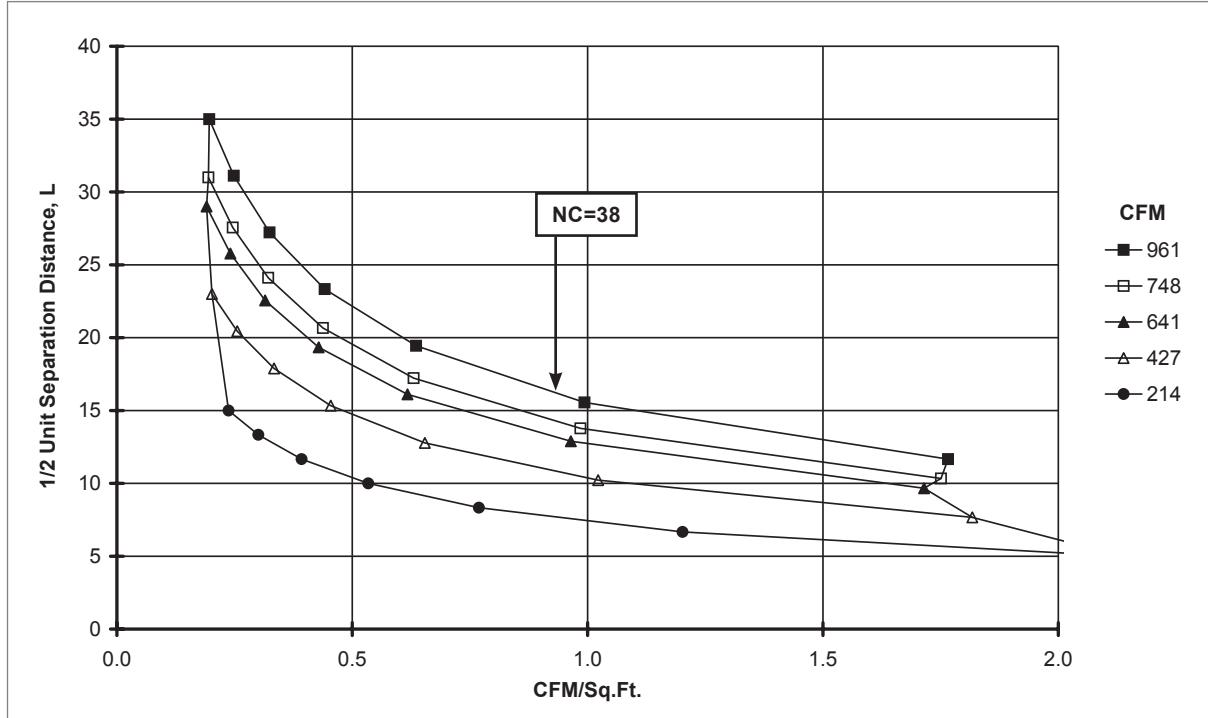


6500, 56500 (Supply) Reference Charts

SPACING FOR 80% ADPI: 6500, 56500, 24"x24" PANEL, 8" NECK, 4-WAY (NO DAMPER)



SPACING FOR 80% ADPI: 6500, 56500, 24"x24" PANEL, 14" NECK, 4-WAY (NO DAMPER)



NOTES: Charts are at 20 BTUH/ft² loads. See the Engineering section of this catalog for instructions on how to read these charts and additional ADPI information.

6500, 56500 (Supply) Performance Data: Horizontal Throw

IP/METRIC DATA: 6500, 56500, 12"x12" PANEL, 4-WAY (NO DAMPER)

Neck Vel	Air Flow	IP Data			NC	Metric Data					Octave Band, dB						
		Ps	Pt	4-way Throw		Neck Vel	Air Flow	Ps	Pt	4-way Throw	2	3	4	5	6	7	
		FPM	CFM	"WG	"WG	ft	m/s	L/s	Pa	Pa	m						
6"	300	59	0.009	0.015	1 - 1 - 6	-	1.52	28	2.2	3.6	0.2 - 0.4 - 1.7	23	15	18	-	-	-
	400	78	0.016	0.026	1 - 2 - 8	-	2.03	37	3.9	6.4	0.3 - 0.7 - 2.4	27	21	22	14	-	-
	500	98	0.025	0.040	2 - 4 - 10	-	2.54	46	6.1	10.0	0.5 - 1.2 - 2.9	29	25	26	21	-	-
	600	118	0.036	0.058	2 - 6 - 10	14	3.05	56	8.9	14.4	0.7 - 1.7 - 3.2	31	28	29	26	16	-
	700	137	0.048	0.079	3 - 7 - 11	19	3.56	65	12.0	19.7	1.0 - 2.1 - 3.4	33	31	31	23	-	-
	800	157	0.063	0.103	4 - 8 - 12	23	4.06	74	15.7	25.7	1.3 - 2.4 - 3.7	34	34	33	35	28	15
	900	176	0.080	0.130	6 - 9 - 13	27	4.57	83	19.9	32.5	1.7 - 2.7 - 3.9	35	36	35	38	33	20
	1000	196	0.099	0.161	7 - 10 - 13	30	5.08	93	24.6	40.1	2.0 - 2.9 - 4.1	36	38	37	41	37	24
	1100	216	0.119	0.195	7 - 10 - 14	34	5.59	102	29.7	48.5	2.2 - 3.0 - 4.3	37	40	38	44	41	28

IP/METRIC DATA: 6500, 56500, 12"x12" PANEL, 1 - 3-WAY (NO DAMPER)

Neck Vel	Air Flow	IP Data			NC	Metric Data					Octave Band, dB						
		1-Way Throw	2-Way Throw	3-Way Throw		Neck Vel	Air Flow	1-Way Throw	2-Way Throw	3-Way Throw	2	3	4	5	6	7	
		FPM	CFM	ft		ft	ft	m/s	L/s	m							
6"	300	59	4 - 8 - 15	2 - 4 - 10	2 - 4 - 8	1.52	28	1.2 - 2.3 - 4.6	0.5 - 1.2 - 3.2	0.5 - 1.1 - 2.3							
	400	78	7 - 10 - 20	3 - 7 - 14	3 - 5 - 10	2.03	37	2.0 - 3.1 - 6.1	0.9 - 2.1 - 4.2	0.9 - 1.5 - 3.1							
	500	98	8 - 13 - 24	5 - 9 - 16	4 - 6 - 13	2.54	46	2.6 - 3.8 - 7.2	1.4 - 2.6 - 4.8	1.3 - 1.9 - 3.8							
	600	118	10 - 15 - 26	7 - 10 - 17	5 - 8 - 14	3.05	56	3.1 - 4.6 - 7.9	2.1 - 3.2 - 5.2	1.5 - 2.3 - 4.2							
	700	137	12 - 18 - 28	8 - 12 - 19	6 - 9 - 15	3.56	65	3.6 - 5.4 - 8.5	2.5 - 3.7 - 5.6	1.8 - 2.7 - 4.6							
	800	157	13 - 20 - 30	9 - 14 - 20	7 - 10 - 16	4.06	74	4.1 - 6.1 - 9.1	2.8 - 4.2 - 6.0	2.0 - 3.1 - 4.9							
	900	176	15 - 22 - 32	10 - 15 - 21	8 - 11 - 17	4.57	83	4.6 - 6.8 - 9.6	3.2 - 4.5 - 6.4	2.3 - 3.5 - 5.2							
	1000	196	17 - 24 - 33	12 - 16 - 22	8 - 13 - 18	5.08	93	5.1 - 7.2 - 10.2	3.5 - 4.8 - 6.7	2.6 - 3.8 - 5.5							
	1100	216	18 - 25 - 35	13 - 16 - 23	9 - 13 - 19	5.59	102	5.6 - 7.5 - 10.6	3.9 - 5.0 - 7.1	2.8 - 4.1 - 5.7							

IP/METRIC DATA: 6500, 56500, 12"x24" PANEL, 4-WAY (NO DAMPER)

Neck Vel	Air Flow	IP Data			NC	Metric Data					Octave Band, dB						
		Neck Vel	Air Flow	Ps		Neck Vel	Air Flow	Ps	Pt	4-Way Throw	2	3	4	5	6	7	
		FPM	CFM	"WG		ft	m/s	L/s	Pa	m							
6"	300	59	0.009	0.015	1 - 1 - 3	-	1.52	28	2.2	3.6	0.2 - 0.4 - 0.8	27	26	12	-	-	-
	400	78	0.016	0.026	1 - 2 - 4	-	2.03	37	4.0	6.4	0.3 - 0.5 - 1.1	30	30	19	11	-	-
	500	98	0.025	0.040	1 - 2 - 4	-	2.54	46	6.2	10.1	0.4 - 0.7 - 1.3	32	33	24	18	-	-
	600	118	0.036	0.058	2 - 3 - 5	11	3.05	56	8.9	14.5	0.5 - 0.8 - 1.5	33	35	29	24	11	-
	700	137	0.049	0.079	2 - 3 - 5	17	3.56	65	12.1	19.7	0.6 - 0.9 - 1.7	35	38	32	29	19	-
	800	157	0.064	0.104	2 - 4 - 6	22	4.06	74	15.8	25.8	0.7 - 1.1 - 1.8	36	40	36	33	25	12
	900	176	0.081	0.131	3 - 4 - 6	26	4.57	83	20.1	32.6	0.8 - 1.2 - 1.9	37	41	39	37	30	17
	1000	196	0.099	0.162	3 - 4 - 7	30	5.08	93	24.8	40.3	0.9 - 1.3 - 2.0	38	43	41	40	35	22
	1100	216	0.120	0.196	3 - 5 - 7	33	5.59	102	30.0	48.7	1.0 - 1.5 - 2.1	39	44	43	43	40	27

IP/METRIC DATA: 6500, 56500, 12"x24" PANEL, 1 - 3-WAY (NO DAMPER)

Neck Vel	Air Flow	IP Data			NC	Metric Data					Octave Band, dB						
		Neck Vel	Air Flow	Ps		Neck Vel	Air Flow	Ps	Pt	1-Way Throw	2	3	4	5	6	7	
		FPM	CFM	"WG		ft	m/s	L/s	Pa	m							
6"	300	59	4 - 8 - 15	2 - 4 - 10	2 - 5 - 11	1.52	28	1.2 - 2.3 - 4.6	0.5 - 1.2 - 3.2	0.7 - 1.6 - 3.3							
	400	78	7 - 10 - 20	3 - 7 - 14	4 - 7 - 14	2.03	37	2.0 - 3.1 - 6.1	0.9 - 2.1 - 4.2	1.3 - 2.2 - 4.3							
	500	98	8 - 13 - 24	5 - 9 - 17	6 - 9 - 18	2.54	46	2.6 - 3.8 - 7.2	1.4 - 2.6 - 5.3	1.8 - 2.7 - 5.4							
	600	118	10 - 15 - 26	7 - 10 - 20	7 - 11 - 19	3.05	56	3.1 - 4.6 - 7.9	2.1 - 3.2 - 6.2	2.2 - 3.3 - 5.9							
	700	137	12 - 18 - 28	8 - 12 - 22	8 - 12 - 21	3.56	65	3.6 - 5.4 - 8.5	2.5 - 3.7 - 6.7	2.5 - 3.8 - 6.4							
	800	157	13 - 20 - 30	9 - 14 - 23	10 - 14 - 22	4.06	74	4.1 - 6.1 - 9.1	2.8 - 4.2 - 7.1	2.9 - 4.3 - 6.8							
	900	176	15 - 22 - 32	10 - 16 - 25	11 - 16 - 24	4.57	83	4.6 - 6.8 - 9.6	3.2 - 4.7 - 7.6	3.3 - 4.9 - 7.2							
	1000	196	17 - 24 - 33	12 - 17 - 26	12 - 18 - 25	5.08	93	5.1 - 7.2 - 10.2	3.5 - 5.3 - 8.0	3.6 - 5.4 - 7.6							
	1100	216	18 - 25 - 35	13 - 19 - 28	13 - 19 - 26	5.59	102	5.6 - 7.5 - 10.6	3.9 - 5.8 - 8.4	4.0 - 5.7 - 8.0							

NOTE: See pages C1-34 and C1-35 for notes.

C1 PERFORATED FACE DIFFUSERS

6500, 56500 | Curved Blade



6500, 56500 (Supply) Performance Data: Horizontal Throw

IP/METRIC DATA: 6500, 56500, 16"x16" PANEL, 4-WAY (NO DAMPER)

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Ps	Pt	4-Way Throw		Neck Vel	Air Flow	Ps	Pt	4-Way Throw	m	2	3	4	5	6	7
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa		m	2	3	4	5	6	7
6"	300	59	0.008	0.014	1 - 2 - 6	-	1.52	28	2.1	3.5	0.3 - 0.7 - 1.8	23	26	16	-	-	-	
	400	78	0.015	0.025	2 - 4 - 8	-	2.03	37	3.7	6.1	0.6 - 1.2 - 2.4	27	30	22	16	-	-	
	500	98	0.023	0.038	3 - 5 - 9	-	2.54	46	5.7	9.6	0.9 - 1.5 - 2.7	30	33	27	23	-	-	
	600	118	0.033	0.055	4 - 6 - 10	15	3.05	56	8.2	13.8	1.2 - 1.8 - 2.9	32	36	31	28	17	-	
	700	137	0.045	0.075	5 - 7 - 10	20	3.56	65	11.2	18.8	1.4 - 2.1 - 3.2	34	38	34	33	23	-	
	800	157	0.059	0.099	5 - 8 - 11	24	4.06	74	14.6	24.5	1.6 - 2.4 - 3.4	36	40	37	37	29	14	
	900	176	0.074	0.125	6 - 8 - 12	28	4.57	83	18.5	31.1	1.8 - 2.5 - 3.6	37	42	40	40	33	19	
	1000	196	0.092	0.154	7 - 9 - 12	31	5.08	93	22.8	38.3	2.0 - 2.7 - 3.8	39	43	42	43	37	24	
	1100	216	0.111	0.186	7 - 9 - 13	34	5.59	102	27.6	46.4	2.2 - 2.8 - 4.0	40	45	44	46	41	28	
8"	200	70	0.004	0.006	1 - 1 - 5	-	1.02	33	0.9	1.5	0.2 - 0.4 - 1.6	23	25	14	-	-	-	
	300	105	0.008	0.014	1 - 3 - 8	-	1.52	49	2.1	3.5	0.4 - 1.0 - 2.4	28	31	23	16	-	-	
	400	140	0.015	0.025	3 - 5 - 10	12	2.03	66	3.7	6.1	0.8 - 1.6 - 3.2	32	35	29	25	14	-	
	500	175	0.023	0.038	4 - 7 - 12	20	2.54	82	5.7	9.6	1.2 - 2.0 - 3.6	34	39	34	31	22	-	
	600	209	0.033	0.055	5 - 8 - 13	25	3.05	99	8.2	13.8	1.6 - 2.4 - 3.9	37	41	37	37	29	14	
	700	244	0.045	0.075	6 - 9 - 14	30	3.56	115	11.2	18.8	1.8 - 2.8 - 4.2	39	44	41	41	35	20	
	800	279	0.059	0.099	7 - 10 - 15	34	4.06	132	14.6	24.5	2.1 - 3.2 - 4.5	41	46	44	45	40	26	
	900	314	0.074	0.125	8 - 11 - 16	38	4.57	148	18.5	31.1	2.4 - 3.4 - 4.8	42	47	46	49	45	31	
	1000	349	0.092	0.154	9 - 12 - 17	42	5.08	165	22.8	38.3	2.6 - 3.6 - 5.1	43	49	48	52	49	36	
10"	200	109	0.004	0.006	1 - 2 - 7	-	1.02	51	0.9	1.5	0.2 - 0.5 - 2.0	26	29	19	11	-	-	
	300	164	0.008	0.014	2 - 4 - 10	11	1.52	77	2.1	3.5	0.5 - 1.2 - 3.0	31	35	28	23	12	-	
	400	218	0.015	0.025	3 - 7 - 13	20	2.03	103	3.7	6.1	1.0 - 2.0 - 4.0	35	39	34	31	23	-	
	500	273	0.023	0.038	5 - 8 - 15	27	2.54	129	5.7	9.6	1.5 - 2.5 - 4.5	38	43	39	38	31	15	
	600	327	0.033	0.055	7 - 10 - 16	33	3.05	154	8.2	13.8	2.0 - 3.0 - 4.9	40	45	43	43	38	23	
	650	354	0.039	0.065	7 - 11 - 17	36	3.30	167	9.6	16.2	2.1 - 3.2 - 5.1	41	47	44	46	41	26	
	700	382	0.045	0.075	8 - 11 - 17	38	3.56	180	11.2	18.8	2.3 - 3.5 - 5.3	42	48	46	48	44	29	
	750	409	0.052	0.087	8 - 12 - 18	40	3.81	193	12.8	21.6	2.5 - 3.7 - 5.5	43	49	47	50	47	32	
	800	436	0.059	0.099	9 - 13 - 19	42	4.06	206	14.6	24.5	2.6 - 4.0 - 5.7	44	50	49	52	49	35	

NOTES: Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). Throw values are given for isothermal conditions. 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. The throw values given for 4-Way Throw is for [Total CFM/4] CFM per side (L/s). See Krueger's selection software for performance data not shown, including octave band data.

6500, 56500 (Supply) Performance Data: Horizontal Throw

IP/METRIC DATA: 6500, 56500, 16"x16" PANEL, 1 - 3-WAY (NO DAMPER)

	IP Data					Metric Data				
	Neck Vel	Air Flow	1-Way Throw	2-Way Throw	3-Way Throw	Neck Vel	Air Flow	1-Way Throw	2-Way Throw	3-Way Throw
	FPM	CFM	ft	ft	ft	m/s	L/s	m	m	m
6"	300	59	1 - 3 - 10	1 - 3 - 8	1 - 3 - 7	1.52	28	0.4 - 0.8 - 3.0	0.4 - 0.9 - 2.4	0.4 - 0.9 - 2.0
	400	78	2 - 5 - 13	2 - 5 - 11	2 - 4 - 9	2.03	37	0.6 - 1.4 - 4.0	0.7 - 1.6 - 3.2	0.7 - 1.4 - 2.7
	500	98	3 - 7 - 17	4 - 7 - 13	3 - 6 - 11	2.54	46	1.0 - 2.2 - 5.0	1.1 - 2.0 - 3.8	1.0 - 1.7 - 3.4
	600	118	5 - 10 - 20	5 - 8 - 14	4 - 7 - 13	3.05	56	1.4 - 3.0 - 6.0	1.6 - 2.4 - 4.2	1.4 - 2.0 - 4.0
	700	137	6 - 12 - 23	6 - 9 - 15	5 - 8 - 14	3.56	65	1.9 - 3.5 - 6.9	1.9 - 2.8 - 4.5	1.6 - 2.4 - 4.4
	800	157	8 - 13 - 24	7 - 11 - 16	6 - 9 - 15	4.06	74	2.5 - 4.0 - 7.4	2.1 - 3.2 - 4.8	1.8 - 2.7 - 4.7
	900	176	10 - 15 - 26	8 - 12 - 17	7 - 10 - 16	4.57	83	3.0 - 4.5 - 7.8	2.4 - 3.6 - 5.1	2.0 - 3.0 - 5.0
	1000	196	11 - 17 - 27	9 - 13 - 18	7 - 11 - 17	5.08	93	3.4 - 5.0 - 8.2	2.7 - 3.8 - 5.4	2.3 - 3.4 - 5.2
	1100	216	12 - 18 - 28	10 - 13 - 19	8 - 12 - 18	5.59	102	3.7 - 5.5 - 8.6	2.9 - 4.0 - 5.7	2.5 - 3.7 - 5.5
	200	70	1 - 2 - 6	1 - 2 - 7	1 - 2 - 6	1.02	33	0.2 - 0.5 - 1.9	0.2 - 0.5 - 2.1	0.2 - 0.5 - 1.8
8"	300	105	2 - 4 - 13	2 - 4 - 11	2 - 4 - 9	1.52	49	0.5 - 1.1 - 4.0	0.5 - 1.2 - 3.2	0.5 - 1.1 - 2.7
	400	140	3 - 6 - 18	3 - 7 - 14	3 - 6 - 12	2.03	66	0.8 - 1.9 - 5.4	0.9 - 2.1 - 4.3	0.9 - 1.8 - 3.6
	500	175	4 - 10 - 22	5 - 9 - 17	5 - 7 - 15	2.54	82	1.3 - 3.0 - 6.7	1.5 - 2.7 - 5.1	1.4 - 2.3 - 4.5
	600	209	6 - 13 - 26	7 - 11 - 18	6 - 9 - 18	3.05	99	1.9 - 4.0 - 8.1	2.1 - 3.2 - 5.6	1.8 - 2.7 - 5.4
	700	244	9 - 15 - 30	8 - 12 - 20	7 - 10 - 19	3.56	115	2.6 - 4.7 - 9.2	2.5 - 3.8 - 6.0	2.1 - 3.2 - 5.8
	800	279	11 - 18 - 32	9 - 14 - 21	8 - 12 - 21	4.06	132	3.4 - 5.4 - 9.8	2.9 - 4.3 - 6.4	2.4 - 3.6 - 6.2
	900	314	13 - 20 - 34	11 - 16 - 23	9 - 13 - 22	4.57	148	4.0 - 6.0 - 10.4	3.2 - 4.8 - 6.8	2.7 - 4.1 - 6.6
	1000	349	15 - 22 - 36	12 - 17 - 24	10 - 15 - 23	5.08	165	4.5 - 6.7 - 11.0	3.6 - 5.1 - 7.2	3.0 - 4.5 - 7.0
	200	109	1 - 2 - 8	1 - 2 - 9	1 - 2 - 7	1.02	51	0.3 - 0.6 - 2.4	0.3 - 0.7 - 2.7	0.3 - 0.6 - 2.3
	300	164	2 - 4 - 17	2 - 5 - 13	2 - 5 - 11	1.52	77	0.6 - 1.3 - 5.0	0.7 - 1.5 - 4.0	0.6 - 1.4 - 3.4
10"	400	218	3 - 8 - 22	4 - 9 - 18	4 - 7 - 15	2.03	103	1.1 - 2.4 - 6.7	1.2 - 2.7 - 5.4	1.1 - 2.3 - 4.5
	500	273	5 - 12 - 28	6 - 11 - 21	6 - 9 - 19	2.54	129	1.7 - 3.7 - 8.4	1.9 - 3.3 - 6.4	1.8 - 2.8 - 5.6
	600	327	8 - 17 - 33	9 - 13 - 23	7 - 11 - 22	3.05	154	2.4 - 5.0 - 10.1	2.7 - 4.0 - 7.0	2.3 - 3.4 - 6.8
	650	354	9 - 18 - 36	10 - 14 - 24	8 - 12 - 23	3.30	167	2.8 - 5.5 - 10.9	2.9 - 4.4 - 7.3	2.4 - 3.7 - 7.0
	700	382	11 - 19 - 38	10 - 15 - 25	9 - 13 - 24	3.56	180	3.3 - 5.9 - 11.5	3.1 - 4.7 - 7.5	2.6 - 3.9 - 7.3
	750	409	12 - 21 - 39	11 - 17 - 26	9 - 14 - 25	3.81	193	3.7 - 6.3 - 11.9	3.3 - 5.0 - 7.8	2.8 - 4.2 - 7.5
	800	436	14 - 22 - 40	12 - 18 - 27	10 - 15 - 26	4.06	206	4.2 - 6.7 - 12.3	3.6 - 5.4 - 8.1	3.0 - 4.5 - 7.8

NOTES: Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). Throw values are given for isothermal conditions. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. The throw values given for 1-Way Throw is for [Total CFM] CFM per side (L/s). The throw values given for 2-Way Throw is for [Total CFM/2] CFM per side (L/s). The throw values given for 3-Way Throw is for [Total CFM/3] CFM per side (L/s). See Krueger's selection software for performance data not shown, including octave band data.

6500, 56500 (Supply) Performance Data: Horizontal Throw
IP/METRIC DATA: 6500, 56500, 20"x20" PANEL, 4-WAY (NO DAMPER)

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Ps	Pt	4-Way Throw		Neck Vel	Air Flow	Ps	Pt	4-Way Throw	m	2	3	4	5	6	7
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa		m	2	3	4	5	6	7
6"	300	59	0.011	0.017	1 - 2 - 5	-	1.52	28	2.8	4.2	0.3 - 0.6 - 1.6	25	28	19	-	-	-	
	400	78	0.020	0.030	2 - 3 - 7	-	2.03	37	4.9	7.4	0.5 - 1.1 - 2.1	29	32	25	17	-	-	
	500	98	0.031	0.046	2 - 4 - 9	-	2.54	46	7.7	11.6	0.7 - 1.3 - 2.6	31	35	29	24	12	-	
	600	118	0.044	0.067	3 - 5 - 9	17	3.05	56	11.1	16.7	1.1 - 1.6 - 2.9	33	38	33	29	20	-	
	700	137	0.061	0.091	4 - 6 - 10	22	3.56	65	15.1	22.7	1.2 - 1.9 - 3.1	35	40	36	34	26	13	
	800	157	0.079	0.119	5 - 7 - 11	26	4.06	74	19.7	29.6	1.4 - 2.1 - 3.3	36	42	39	38	31	18	
	900	176	0.100	0.151	5 - 8 - 12	30	4.57	83	24.9	37.5	1.6 - 2.4 - 3.5	37	44	41	42	36	22	
	1000	196	0.124	0.186	6 - 9 - 12	34	5.08	93	30.8	46.3	1.8 - 2.6 - 3.7	39	45	44	45	40	26	
	1100	216	0.149	0.225	6 - 9 - 13	37	5.59	102	37.2	56.0	2.0 - 2.7 - 3.9	40	47	46	48	44	30	
8"	300	105	0.011	0.017	1 - 3 - 7	-	1.52	49	2.8	4.2	0.4 - 0.8 - 2.1	28	30	22	14	-	-	
	400	140	0.020	0.030	2 - 5 - 9	-	2.03	66	4.9	7.4	0.6 - 1.4 - 2.9	31	34	28	23	11	-	
	500	175	0.031	0.046	3 - 6 - 11	17	2.54	82	7.7	11.6	1.0 - 1.8 - 3.5	34	38	33	29	19	-	
	600	209	0.044	0.067	5 - 7 - 13	23	3.05	99	11.1	16.7	1.4 - 2.1 - 3.8	36	40	37	35	27	14	
	700	244	0.061	0.091	5 - 8 - 14	28	3.56	115	15.1	22.7	1.7 - 2.5 - 4.1	37	42	40	40	33	19	
	800	279	0.079	0.119	6 - 9 - 15	33	4.06	132	19.7	29.6	1.9 - 2.9 - 4.4	39	44	43	44	38	25	
	900	314	0.100	0.151	7 - 11 - 15	36	4.57	148	24.9	37.5	2.1 - 3.2 - 4.7	40	46	45	47	43	29	
	1000	349	0.124	0.186	8 - 11 - 16	40	5.08	165	30.8	46.3	2.4 - 3.5 - 4.9	41	47	47	51	47	33	
	1050	366	0.136	0.205	8 - 12 - 17	42	5.33	173	33.9	51.0	2.5 - 3.6 - 5.1	42	48	48	52	49	35	
10"	200	109	0.005	0.007	1 - 1 - 6	-	1.02	51	1.2	1.9	0.2 - 0.4 - 1.8	26	26	17	-	-	-	
	300	164	0.011	0.017	1 - 3 - 9	-	1.52	77	2.8	4.2	0.4 - 1.0 - 2.7	30	32	25	18	-	-	
	400	218	0.020	0.030	3 - 6 - 12	14	2.03	103	4.9	7.4	0.8 - 1.8 - 3.6	33	36	31	27	16	-	
	500	273	0.031	0.046	4 - 7 - 14	22	2.54	129	7.7	11.6	1.2 - 2.2 - 4.4	36	39	36	34	25	12	
	600	327	0.044	0.067	6 - 9 - 16	28	3.05	154	11.1	16.7	1.8 - 2.7 - 4.8	38	42	39	39	32	19	
	700	382	0.061	0.091	7 - 10 - 17	33	3.56	180	15.1	22.7	2.1 - 3.1 - 5.2	39	44	43	44	38	25	
	750	409	0.070	0.105	7 - 11 - 18	35	3.81	193	17.3	26.0	2.2 - 3.3 - 5.3	40	45	44	46	41	27	
	800	436	0.079	0.119	8 - 12 - 18	37	4.06	206	19.7	29.6	2.4 - 3.6 - 5.5	41	46	45	48	44	30	
	900	491	0.100	0.151	9 - 13 - 19	41	4.57	231	24.9	37.5	2.7 - 4.0 - 5.9	42	47	48	52	49	34	
12"	200	157	0.005	0.007	1 - 2 - 7	-	1.02	74	1.2	1.9	0.2 - 0.5 - 2.1	27	27	19	-	-	-	
	300	235	0.011	0.017	2 - 4 - 11	-	1.52	111	2.8	4.2	0.5 - 1.2 - 3.2	32	33	27	22	-	-	
	400	314	0.020	0.030	3 - 7 - 14	19	2.03	148	4.9	7.4	0.9 - 2.1 - 4.3	35	37	33	31	20	-	
	500	392	0.031	0.046	5 - 9 - 17	26	2.54	185	7.7	11.6	1.5 - 2.7 - 5.2	37	40	38	38	29	16	
	600	471	0.044	0.067	7 - 11 - 19	32	3.05	222	11.1	16.7	2.1 - 3.2 - 5.7	39	43	42	43	37	23	
	650	510	0.052	0.079	8 - 11 - 20	35	3.30	241	13.0	19.6	2.3 - 3.5 - 6.0	40	44	43	46	40	26	
	700	549	0.061	0.091	8 - 12 - 20	37	3.56	259	15.1	22.7	2.5 - 3.7 - 6.2	41	45	45	48	43	29	
	750	589	0.070	0.105	9 - 13 - 21	39	3.81	278	17.3	26.0	2.7 - 4.0 - 6.4	42	46	46	50	46	31	
	800	628	0.079	0.119	9 - 14 - 22	41	4.06	296	19.7	29.6	2.9 - 4.3 - 6.6	43	47	48	52	48	34	

NOTES: Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). Throw values are given for isothermal conditions. 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. The throw values given for 4-Way Throw is for [Total CFM/4] CFM per side (L/s). See Krueger's selection software for performance data not shown, including octave band data.

6500, 56500 (Supply) Performance Data: Horizontal Throw

IP/METRIC DATA: 6500, 56500, 20"x20" PANEL, 1 - 3-WAY (NO DAMPER)

	IP Data					Metric Data				
	Neck Vel	Air Flow	1-Way Throw	2-Way Throw	3-Way Throw	Neck Vel	Air Flow	1-Way Throw	2-Way Throw	3-Way Throw
	FPM	CFM	ft	ft	ft	m/s	L/s	m	m	m
6"	300	59	2 - 4 - 11	1 - 3 - 7	1 - 2 - 7	1.52	28	0.5 - 1.2 - 3.2	0.3 - 0.8 - 2.1	0.3 - 0.7 - 2.0
	400	78	3 - 7 - 14	2 - 4 - 9	2 - 4 - 9	2.03	37	0.9 - 2.1 - 4.3	0.6 - 1.4 - 2.7	0.5 - 1.2 - 2.7
	500	98	5 - 9 - 16	3 - 6 - 11	3 - 6 - 11	2.54	46	1.5 - 2.7 - 4.9	1.0 - 1.7 - 3.4	0.8 - 1.7 - 3.3
	600	118	7 - 11 - 18	4 - 7 - 13	4 - 7 - 13	3.05	56	2.1 - 3.2 - 5.3	1.4 - 2.1 - 4.1	1.2 - 2.0 - 4.0
	700	137	8 - 12 - 19	5 - 8 - 15	5 - 8 - 15	3.56	65	2.5 - 3.7 - 5.8	1.6 - 2.4 - 4.5	1.6 - 2.3 - 4.5
	800	157	9 - 14 - 20	6 - 9 - 16	6 - 9 - 16	4.06	74	2.9 - 4.3 - 6.2	1.8 - 2.7 - 4.8	1.8 - 2.7 - 4.8
	900	176	11 - 15 - 22	7 - 10 - 17	7 - 10 - 17	4.57	83	3.2 - 4.6 - 6.5	2.1 - 3.1 - 5.1	2.0 - 3.0 - 5.1
	1000	196	12 - 16 - 23	7 - 11 - 18	7 - 11 - 18	5.08	93	3.6 - 4.9 - 6.9	2.3 - 3.4 - 5.3	2.2 - 3.3 - 5.4
	1100	216	13 - 17 - 24	8 - 12 - 18	8 - 12 - 19	5.59	102	3.9 - 5.1 - 7.2	2.5 - 3.8 - 5.6	2.5 - 3.7 - 5.6
	300	105	2 - 5 - 14	2 - 3 - 9	1 - 3 - 9	1.52	49	0.7 - 1.6 - 4.3	0.5 - 1.0 - 2.7	0.4 - 0.9 - 2.7
8"	400	140	4 - 9 - 19	3 - 6 - 12	2 - 5 - 12	2.03	66	1.3 - 2.8 - 5.7	0.8 - 1.8 - 3.6	0.7 - 1.6 - 3.6
	500	175	6 - 12 - 21	4 - 8 - 15	4 - 7 - 15	2.54	82	2.0 - 3.6 - 6.5	1.3 - 2.3 - 4.6	1.1 - 2.2 - 4.5
	600	209	9 - 14 - 23	6 - 9 - 18	5 - 9 - 18	3.05	99	2.8 - 4.3 - 7.1	1.8 - 2.7 - 5.5	1.6 - 2.7 - 5.4
	700	244	11 - 16 - 25	7 - 11 - 20	7 - 10 - 20	3.56	115	3.3 - 5.0 - 7.7	2.1 - 3.2 - 6.0	2.1 - 3.1 - 6.0
	800	279	13 - 19 - 27	8 - 12 - 21	8 - 12 - 21	4.06	132	3.8 - 5.7 - 8.2	2.4 - 3.6 - 6.4	2.4 - 3.6 - 6.4
	900	314	14 - 20 - 29	9 - 14 - 22	9 - 13 - 22	4.57	148	4.3 - 6.2 - 8.7	2.7 - 4.1 - 6.8	2.7 - 4.0 - 6.8
	1000	349	16 - 21 - 30	10 - 15 - 23	10 - 15 - 24	5.08	165	4.8 - 6.5 - 9.2	3.0 - 4.6 - 7.1	3.0 - 4.5 - 7.2
	1050	366	16 - 22 - 31	11 - 16 - 24	10 - 15 - 24	5.33	173	5.0 - 6.7 - 9.4	3.2 - 4.8 - 7.3	3.1 - 4.7 - 7.3
	200	109	1 - 3 - 12	1 - 2 - 7	1 - 2 - 7	1.02	51	0.4 - 0.9 - 3.5	0.3 - 0.6 - 2.3	0.2 - 0.5 - 2.0
	300	164	3 - 7 - 18	2 - 4 - 11	2 - 4 - 11	1.52	77	0.9 - 2.0 - 5.4	0.6 - 1.3 - 3.4	0.5 - 1.1 - 3.4
10"	400	218	5 - 12 - 23	3 - 7 - 15	3 - 7 - 15	2.03	103	1.6 - 3.5 - 7.1	1.0 - 2.3 - 4.6	0.9 - 2.0 - 4.5
	500	273	8 - 15 - 27	5 - 9 - 19	5 - 9 - 18	2.54	129	2.5 - 4.5 - 8.1	1.6 - 2.8 - 5.7	1.4 - 2.8 - 5.6
	600	327	12 - 18 - 29	7 - 11 - 22	7 - 11 - 22	3.05	154	3.5 - 5.4 - 8.9	2.3 - 3.4 - 6.8	2.0 - 3.4 - 6.7
	700	382	14 - 21 - 32	9 - 13 - 25	9 - 13 - 25	3.56	180	4.2 - 6.2 - 9.6	2.7 - 4.0 - 7.5	2.6 - 3.9 - 7.5
	750	409	15 - 22 - 33	9 - 14 - 25	9 - 14 - 26	3.81	193	4.5 - 6.7 - 10.0	2.8 - 4.3 - 7.7	2.8 - 4.2 - 7.8
	800	436	16 - 23 - 34	10 - 15 - 26	10 - 15 - 26	4.06	206	4.8 - 7.1 - 10.3	3.0 - 4.6 - 8.0	3.0 - 4.5 - 8.0
	900	491	18 - 25 - 36	11 - 17 - 28	11 - 17 - 28	4.57	231	5.4 - 7.7 - 10.9	3.4 - 5.1 - 8.4	3.4 - 5.0 - 8.5
	200	157	2 - 3 - 14	1 - 2 - 9	1 - 2 - 8	1.02	74	0.5 - 1.1 - 4.3	0.3 - 0.7 - 2.7	0.3 - 0.6 - 2.4
	300	235	3 - 8 - 21	2 - 5 - 13	2 - 4 - 13	1.52	111	1.1 - 2.4 - 6.4	0.7 - 1.6 - 4.1	0.6 - 1.4 - 4.0
	400	314	6 - 14 - 28	4 - 9 - 18	4 - 8 - 18	2.03	148	1.9 - 4.3 - 8.6	1.2 - 2.7 - 5.5	1.1 - 2.4 - 5.4
12"	500	392	10 - 18 - 32	6 - 11 - 22	6 - 11 - 22	2.54	185	3.0 - 5.4 - 9.8	1.9 - 3.4 - 6.8	1.7 - 3.4 - 6.7
	600	471	14 - 21 - 35	9 - 13 - 27	8 - 13 - 26	3.05	222	4.3 - 6.4 - 10.7	2.7 - 4.1 - 8.2	2.4 - 4.0 - 8.0
	650	510	15 - 23 - 37	10 - 15 - 28	9 - 14 - 29	3.30	241	4.6 - 7.0 - 11.1	3.0 - 4.4 - 8.6	2.8 - 4.4 - 8.7
	700	549	16 - 25 - 38	10 - 16 - 29	10 - 15 - 30	3.56	259	5.0 - 7.5 - 11.5	3.2 - 4.8 - 8.9	3.1 - 4.7 - 9.0
	750	589	18 - 26 - 39	11 - 17 - 30	11 - 17 - 31	3.81	278	5.4 - 8.0 - 11.9	3.4 - 5.1 - 9.3	3.4 - 5.0 - 9.3
	800	628	19 - 28 - 41	12 - 18 - 31	12 - 18 - 32	4.06	296	5.7 - 8.6 - 12.3	3.6 - 5.5 - 9.6	3.6 - 5.4 - 9.6

NOTES: Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). Throw values are given for isothermal conditions. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. The throw values given for 1-Way Throw is for [Total CFM] CFM per side (L/s). The throw values given for 2-Way Throw is for [Total CFM/2] CFM per side (L/s). The throw values given for 3-Way Throw is for [Total CFM/3] CFM per side (L/s). See Krueger's selection software for performance data not shown, including octave band data.

C1 PERFORATED FACE DIFFUSERS

6500, 56500 | Curved Blade



6500, 56500 (Supply) Performance Data: Horizontal Throw

IP/METRIC DATA: 6500, 56500, 24"x24" PANEL, 4-WAY (NO DAMPER)

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Ps	Pt	4-Way Throw		Neck Vel	Air Flow	Ps	Pt	4-Way Throw	m	2	3	4	5	6	7
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa		m	2	3	4	5	6	7
6"	300	59	0.011	0.017	2 - 4 - 9	-	1.52	28	2.7	4.1	0.6 - 1.3 - 2.6	21	21	17	-	-	-	
	400	78	0.020	0.030	3 - 6 - 10	-	2.03	37	4.9	7.4	1.0 - 1.9 - 3.0	24	26	23	-	-	-	
	500	98	0.031	0.046	5 - 8 - 11	-	2.54	46	7.6	11.5	1.6 - 2.4 - 3.4	27	30	28	16	-	-	
	600	118	0.044	0.067	6 - 9 - 12	15	3.05	56	11.0	16.6	1.9 - 2.6 - 3.7	30	33	32	22	-	-	
	700	137	0.060	0.091	7 - 9 - 13	19	3.56	65	15.0	22.6	2.2 - 2.8 - 4.0	32	36	35	27	13	-	
	800	157	0.078	0.118	8 - 10 - 14	22	4.06	74	19.5	29.5	2.5 - 3.0 - 4.3	34	38	38	31	18	-	
	900	176	0.099	0.150	9 - 11 - 15	25	4.57	83	24.7	37.3	2.6 - 3.2 - 4.5	35	40	41	35	23	12	
	1000	196	0.123	0.185	9 - 11 - 16	28	5.08	93	30.5	46.1	2.8 - 3.4 - 4.8	37	42	43	38	28	16	
	1100	216	0.148	0.224	10 - 12 - 17	30	5.59	102	36.9	55.7	2.9 - 3.6 - 5.0	38	44	45	41	32	20	
8"	300	105	0.011	0.017	2 - 6 - 12	-	1.52	49	2.7	4.1	0.7 - 1.7 - 3.5	25	24	21	-	-	-	
	400	140	0.020	0.030	4 - 8 - 13	-	2.03	66	4.9	7.4	1.3 - 2.5 - 4.0	28	29	27	15	-	-	
	500	175	0.031	0.046	7 - 10 - 15	15	2.54	82	7.6	11.5	2.1 - 3.2 - 4.5	31	33	32	22	-	-	
	600	209	0.044	0.067	8 - 12 - 16	19	3.05	99	11.0	16.6	2.5 - 3.5 - 5.0	34	36	36	27	13	-	
	700	244	0.060	0.091	10 - 12 - 18	23	3.56	115	15.0	22.6	3.0 - 3.8 - 5.4	36	38	39	32	20	-	
	800	279	0.078	0.118	11 - 13 - 19	27	4.06	132	19.5	29.5	3.3 - 4.0 - 5.7	38	41	42	36	25	15	
	900	314	0.099	0.150	12 - 14 - 20	30	4.57	148	24.7	37.3	3.5 - 4.3 - 6.1	39	43	45	40	30	19	
	1000	349	0.123	0.185	12 - 15 - 21	32	5.08	165	30.5	46.1	3.7 - 4.5 - 6.4	40	45	47	43	35	23	
	1100	384	0.148	0.224	13 - 16 - 22	35	5.59	181	36.9	55.7	3.9 - 4.7 - 6.7	42	46	49	46	39	27	
10"	300	164	0.011	0.017	3 - 7 - 14	-	1.52	77	2.7	4.1	0.9 - 2.1 - 4.4	28	26	23	-	-	-	
	400	218	0.020	0.030	5 - 10 - 17	12	2.03	103	4.9	7.4	1.7 - 3.2 - 5.1	31	31	30	19	-	-	
	500	273	0.031	0.046	9 - 13 - 19	18	2.54	129	7.6	11.5	2.6 - 4.0 - 5.7	34	35	35	26	11	-	
	600	327	0.044	0.067	10 - 14 - 20	23	3.05	154	11.0	16.6	3.2 - 4.4 - 6.2	37	38	39	32	19	-	
	700	382	0.060	0.091	12 - 16 - 22	27	3.56	180	15.0	22.6	3.7 - 4.7 - 6.7	39	41	42	36	25	15	
	800	436	0.078	0.118	14 - 17 - 24	30	4.06	206	19.5	29.5	4.1 - 5.1 - 7.2	41	43	45	41	31	20	
	900	491	0.099	0.150	14 - 18 - 25	33	4.57	231	24.7	37.3	4.4 - 5.4 - 7.6	42	45	48	44	36	25	
	1000	545	0.123	0.185	15 - 19 - 26	36	5.08	257	30.5	46.1	4.6 - 5.7 - 8.0	43	47	50	47	40	29	
	1100	600	0.148	0.224	16 - 20 - 28	38	5.59	283	36.9	55.7	4.8 - 5.9 - 8.4	45	48	52	50	44	33	
12"	300	235	0.011	0.017	4 - 8 - 17	-	1.52	111	2.7	4.1	1.1 - 2.5 - 5.3	30	27	26	14	-	-	
	400	314	0.020	0.030	7 - 12 - 20	15	2.03	148	4.9	7.4	2.0 - 3.8 - 6.1	34	32	32	23	-	-	
	500	392	0.031	0.046	10 - 16 - 22	21	2.54	185	7.6	11.5	3.1 - 4.7 - 6.8	37	36	37	30	15	-	
	600	471	0.044	0.067	12 - 17 - 24	26	3.05	222	11.0	16.6	3.8 - 5.3 - 7.4	39	40	41	35	23	14	
	700	549	0.060	0.091	15 - 19 - 26	30	3.56	259	15.0	22.6	4.4 - 5.7 - 8.0	41	42	44	40	30	20	
	800	628	0.078	0.118	16 - 20 - 28	33	4.06	296	19.5	29.5	5.0 - 6.1 - 8.6	43	45	47	44	35	25	
	900	706	0.099	0.150	17 - 21 - 30	36	4.57	333	24.7	37.3	5.3 - 6.4 - 9.1	45	47	50	48	40	30	
	1000	785	0.123	0.185	18 - 22 - 32	39	5.08	370	30.5	46.1	5.5 - 6.8 - 9.6	46	48	52	51	45	34	
	1100	863	0.148	0.224	19 - 23 - 33	41	5.59	407	36.9	55.7	5.8 - 7.1 - 10.1	47	50	54	54	49	37	
14"	200	214	0.005	0.007	2 - 4 - 15	-	1.02	101	1.2	1.8	0.6 - 1.3 - 4.4	27	22	19	-	-	-	
	300	320	0.011	0.017	4 - 10 - 20	-	1.52	151	2.7	4.1	1.3 - 2.9 - 6.1	32	29	28	17	-	-	
	400	427	0.020	0.030	8 - 15 - 23	18	2.03	202	4.9	7.4	2.3 - 4.4 - 7.1	36	34	34	26	-	-	
	500	534	0.031	0.046	12 - 18 - 26	23	2.54	252	7.6	11.5	3.6 - 5.5 - 7.9	39	38	39	32	19	11	
	600	641	0.044	0.067	15 - 20 - 29	28	3.05	302	11.0	16.6	4.4 - 6.1 - 8.7	41	41	43	38	27	18	
	700	748	0.060	0.091	17 - 22 - 31	32	3.56	353	15.0	22.6	5.2 - 6.6 - 9.4	43	44	46	43	33	24	
	800	855	0.078	0.118	19 - 23 - 33	35	4.06	403	19.5	29.5	5.8 - 7.1 - 10.0	45	46	49	47	39	29	
	900	961	0.099	0.150	20 - 25 - 35	38	4.57	454	24.7	37.3	6.1 - 7.5 - 10.6	47	48	52	51	44	34	
	1000	1068	0.123	0.185	21 - 26 - 37	41	5.08	504	30.5	46.1	6.5 - 7.9 - 11.2	48	50	54	54	48	38	
16"	200	279	0.005	0.007	2 - 5 - 17	-	1.02	132	1.2	1.8	0.7 - 1.5 - 5.1	28	23	21	-	-	-	
	300	419	0.011	0.017	5 - 11 - 23	12	1.52	198	2.7	4.1	1.5 - 3.4 - 7.0	34	30	29	19	-	-	
	400	558	0.020	0.030	9 - 17 - 27	20	2.03	263	4.9	7.4	2.6 - 5.1 - 8.1	38	35	36	28	13	-	
	500	698	0.031	0.046	14 - 21 - 30	25	2.54	329	7.6	11.5	4.1 - 6.3 - 9.0	41	39	41	35	22	14	
	600	837	0.044	0.067	17 - 23 - 33	30	3.05	395	11.0	16.6	5.1 - 7.0 - 9.9	43	42	45	41	30	21	
	700	977	0.060	0.091	19 - 25 - 35	34	3.56	461	15.0	22.6	5.9 - 7.6 - 10.7	45	45	48	45	37	27	
	800	1116	0.078	0.118	22 - 27 - 38	38	4.06	527	19.5	29.5	6.6 - 8.1 - 11.4	47	47	51	49	42	32	
	850	1186	0.089	0.134	22 - 27 - 39	39	4.32	560	22.1	33.3	6.8 - 8.3 - 11.8	48	48	52	51	45	35	
	900	1256	0.099	0.150	23 - 28 - 40	41	4.57	593	24.7	37.3	7.0 - 8.6 - 12.1	48	49	54	53	47	37	

NOTE: See pages C1-36 for notes.

6500, 56500 (Supply) Performance Data: Horizontal Throw

IP/METRIC DATA: 6500, 56500, 24"x24" PANEL, 1 - 3-WAY (NO DAMPER)

	IP Data					Metric Data				
	Neck Vel	Air Flow	1-Way Throw	2-Way Throw	3-Way Throw	Neck Vel	Air Flow	1-Way Throw	2-Way Throw	3-Way Throw
	FPM	CFM	ft	ft	ft	m/s	L/s	m	m	m
6"	300	59	3 - 5 - 11	2 - 5 - 10	2 - 4 - 8	1.52	28	0.8 - 1.6 - 3.2	0.7 - 1.5 - 3.0	0.5 - 1.2 - 2.6
	400	78	5 - 7 - 12	4 - 7 - 11	3 - 6 - 10	2.03	37	1.5 - 2.2 - 3.7	1.2 - 2.1 - 3.5	1.0 - 1.8 - 2.9
	500	98	6 - 9 - 14	6 - 9 - 13	5 - 7 - 11	2.54	46	1.8 - 2.7 - 4.1	1.8 - 2.6 - 3.9	1.5 - 2.2 - 3.3
	600	118	7 - 11 - 15	7 - 10 - 14	6 - 8 - 12	3.05	56	2.2 - 3.2 - 4.5	2.1 - 3.0 - 4.2	1.8 - 2.6 - 3.6
	700	137	8 - 11 - 16	8 - 11 - 15	7 - 9 - 13	3.56	65	2.6 - 3.5 - 4.9	2.5 - 3.2 - 4.6	2.1 - 2.8 - 3.9
	800	157	10 - 12 - 17	9 - 11 - 16	8 - 10 - 14	4.06	74	2.9 - 3.7 - 5.2	2.8 - 3.5 - 4.9	2.4 - 2.9 - 4.2
	900	176	11 - 13 - 18	10 - 12 - 17	8 - 10 - 15	4.57	83	3.2 - 3.9 - 5.5	3.0 - 3.7 - 5.2	2.6 - 3.1 - 4.4
	1000	196	11 - 14 - 19	10 - 13 - 18	9 - 11 - 15	5.08	93	3.4 - 4.1 - 5.8	3.2 - 3.9 - 5.5	2.7 - 3.3 - 4.7
	1100	216	12 - 14 - 20	11 - 13 - 19	9 - 11 - 16	5.59	102	3.5 - 4.3 - 6.1	3.3 - 4.0 - 5.7	2.8 - 3.5 - 4.9
	300	105	4 - 7 - 14	3 - 7 - 13	2 - 5 - 11	1.52	49	1.1 - 2.2 - 4.3	0.9 - 2.1 - 4.0	0.7 - 1.6 - 3.4
8"	400	140	6 - 10 - 16	5 - 9 - 15	4 - 8 - 13	2.03	66	1.9 - 2.9 - 4.9	1.6 - 2.8 - 4.6	1.3 - 2.4 - 3.9
	500	175	8 - 12 - 18	8 - 12 - 17	7 - 10 - 14	2.54	82	2.4 - 3.7 - 5.5	2.3 - 3.5 - 5.1	2.0 - 3.0 - 4.4
	600	209	10 - 14 - 20	9 - 13 - 19	8 - 11 - 16	3.05	99	2.9 - 4.3 - 6.0	2.8 - 4.0 - 5.6	2.4 - 3.4 - 4.8
	700	244	11 - 15 - 21	11 - 14 - 20	9 - 12 - 17	3.56	115	3.4 - 4.6 - 6.5	3.3 - 4.3 - 6.1	2.8 - 3.7 - 5.2
	800	279	13 - 16 - 23	12 - 15 - 21	10 - 13 - 18	4.06	132	3.9 - 4.9 - 7.0	3.7 - 4.6 - 6.5	3.2 - 3.9 - 5.6
	900	314	14 - 17 - 24	13 - 16 - 23	11 - 14 - 19	4.57	148	4.3 - 5.2 - 7.4	4.0 - 4.9 - 6.9	3.4 - 4.2 - 5.9
	1000	349	15 - 18 - 26	14 - 17 - 24	12 - 14 - 20	5.08	165	4.5 - 5.5 - 7.8	4.2 - 5.1 - 7.3	3.6 - 4.4 - 6.2
	1100	384	16 - 19 - 27	15 - 18 - 25	12 - 15 - 21	5.59	181	4.7 - 5.8 - 8.2	4.4 - 5.4 - 7.6	3.8 - 4.6 - 6.5
	300	164	4 - 9 - 18	4 - 8 - 16	3 - 7 - 14	1.52	77	1.4 - 2.8 - 5.3	1.1 - 2.6 - 5.0	0.9 - 2.0 - 4.3
	400	218	8 - 12 - 20	7 - 12 - 19	5 - 10 - 16	2.03	103	2.4 - 3.7 - 6.2	2.0 - 3.5 - 5.8	1.6 - 3.0 - 4.9
10"	500	273	10 - 15 - 23	10 - 14 - 21	8 - 12 - 18	2.54	129	3.1 - 4.6 - 6.9	2.9 - 4.4 - 6.4	2.5 - 3.7 - 5.5
	600	327	12 - 18 - 25	12 - 16 - 23	10 - 14 - 20	3.05	154	3.7 - 5.3 - 7.5	3.5 - 5.0 - 7.0	3.0 - 4.3 - 6.0
	700	382	14 - 19 - 27	13 - 18 - 25	11 - 15 - 21	3.56	180	4.3 - 5.8 - 8.1	4.1 - 5.4 - 7.6	3.5 - 4.6 - 6.5
	800	436	16 - 20 - 29	15 - 19 - 27	13 - 16 - 23	4.06	206	4.9 - 6.2 - 8.7	4.7 - 5.8 - 8.1	4.0 - 4.9 - 6.9
	900	491	18 - 21 - 30	16 - 20 - 28	14 - 17 - 24	4.57	231	5.3 - 6.5 - 9.2	5.0 - 6.1 - 8.6	4.3 - 5.2 - 7.4
	1000	545	18 - 23 - 32	17 - 21 - 30	15 - 18 - 26	5.08	257	5.6 - 6.9 - 9.7	5.3 - 6.4 - 9.1	4.5 - 5.5 - 7.8
	1100	600	19 - 24 - 34	18 - 22 - 31	15 - 19 - 27	5.59	283	5.9 - 7.2 - 10.2	5.5 - 6.7 - 9.5	4.7 - 5.8 - 8.1
	300	235	5 - 11 - 21	5 - 10 - 20	4 - 8 - 17	1.52	111	1.6 - 3.3 - 6.4	1.4 - 3.1 - 6.0	1.1 - 2.4 - 5.1
	400	314	10 - 14 - 24	8 - 14 - 23	6 - 12 - 19	2.03	148	2.9 - 4.4 - 7.4	2.4 - 4.2 - 6.9	1.9 - 3.6 - 5.9
	500	392	12 - 18 - 27	12 - 17 - 25	10 - 15 - 22	2.54	185	3.7 - 5.5 - 8.3	3.5 - 5.3 - 7.7	3.0 - 4.5 - 6.6
12"	600	471	14 - 21 - 30	14 - 20 - 28	12 - 17 - 24	3.05	222	4.4 - 6.4 - 9.0	4.2 - 6.0 - 8.5	3.6 - 5.1 - 7.2
	700	549	17 - 23 - 32	16 - 21 - 30	14 - 18 - 26	3.56	259	5.1 - 6.9 - 9.8	4.9 - 6.5 - 9.1	4.2 - 5.5 - 7.8
	800	628	19 - 24 - 34	18 - 23 - 32	16 - 19 - 27	4.06	296	5.9 - 7.4 - 10.4	5.6 - 6.9 - 9.8	4.8 - 5.9 - 8.3
	900	706	21 - 26 - 36	20 - 24 - 34	17 - 21 - 29	4.57	333	6.4 - 7.8 - 11.1	6.0 - 7.3 - 10.4	5.1 - 6.3 - 8.8
	1000	785	22 - 27 - 38	21 - 25 - 36	18 - 22 - 31	5.08	370	6.7 - 8.3 - 11.7	6.3 - 7.7 - 10.9	5.4 - 6.6 - 9.3
	1100	863	23 - 28 - 40	22 - 27 - 38	19 - 23 - 32	5.59	407	7.1 - 8.7 - 12.2	6.6 - 8.1 - 11.5	5.6 - 6.9 - 9.8
	200	214	3 - 6 - 17	2 - 5 - 16	2 - 4 - 14	1.02	101	0.8 - 1.9 - 5.1	0.7 - 1.6 - 4.9	0.6 - 1.3 - 4.2
	300	320	6 - 13 - 25	5 - 12 - 23	4 - 9 - 20	1.52	151	1.9 - 3.9 - 7.5	1.6 - 3.6 - 7.0	1.3 - 2.9 - 6.0
	400	427	11 - 17 - 28	9 - 16 - 27	7 - 14 - 23	2.03	202	3.4 - 5.1 - 8.6	2.9 - 4.9 - 8.1	2.3 - 4.2 - 6.9
	500	534	14 - 21 - 32	13 - 20 - 30	11 - 17 - 25	2.54	252	4.3 - 6.4 - 9.6	4.1 - 6.1 - 9.0	3.5 - 5.2 - 7.7
14"	600	641	17 - 25 - 35	16 - 23 - 32	14 - 20 - 28	3.05	302	5.1 - 7.5 - 10.6	4.9 - 7.0 - 9.9	4.2 - 6.0 - 8.4
	700	748	20 - 27 - 37	19 - 25 - 35	16 - 21 - 30	3.56	353	6.0 - 8.1 - 11.4	5.7 - 7.5 - 10.7	4.9 - 6.4 - 9.1
	800	855	23 - 28 - 40	22 - 27 - 37	18 - 23 - 32	4.06	403	6.8 - 8.6 - 12.2	6.6 - 8.1 - 11.4	5.6 - 6.9 - 9.7
	900	961	25 - 30 - 43	23 - 28 - 40	20 - 24 - 34	4.57	454	7.5 - 9.1 - 12.9	7.0 - 8.5 - 12.1	6.0 - 7.3 - 10.3
	1000	1068	26 - 32 - 45	24 - 30 - 42	21 - 25 - 36	5.08	504	7.9 - 9.6 - 13.6	7.4 - 9.0 - 12.7	6.3 - 7.7 - 10.9
	200	279	3 - 7 - 19	3 - 6 - 18	2 - 5 - 16	1.02	132	1.0 - 2.2 - 5.9	0.8 - 1.8 - 5.6	0.6 - 1.4 - 4.8
	300	419	7 - 14 - 28	6 - 14 - 26	5 - 11 - 22	1.52	198	2.2 - 4.4 - 8.5	1.8 - 4.1 - 8.0	1.4 - 3.3 - 6.8
	400	558	13 - 19 - 32	11 - 18 - 30	8 - 16 - 26	2.03	263	3.9 - 5.9 - 9.8	3.3 - 5.6 - 9.2	2.6 - 4.8 - 7.9
	500	698	16 - 24 - 36	15 - 23 - 34	13 - 20 - 29	2.54	329	4.9 - 7.3 - 11.0	4.7 - 7.0 - 10.3	4.0 - 6.0 - 8.8
	600	837	19 - 28 - 40	18 - 26 - 37	16 - 22 - 32	3.05	395	5.9 - 8.5 - 12.1	5.6 - 8.0 - 11.3	4.8 - 6.8 - 9.6
16"	700	977	23 - 30 - 43	22 - 28 - 40	18 - 24 - 34	3.56	461	6.8 - 9.2 - 13.0	6.6 - 8.6 - 12.2	5.6 - 7.4 - 10.4
	800	1116	26 - 32 - 46	25 - 30 - 43	21 - 26 - 37	4.06	527	7.8 - 9.8 - 13.9	7.5 - 9.2 - 13.0	6.4 - 7.9 - 11.1
	900	1256	28 - 34 - 49	26 - 32 - 45	22 - 27 - 39	4.57	593	8.5 - 10.4 - 14.8	8.0 - 9.8 - 13.8	6.8 - 8.3 - 11.8
	1000	1395	30 - 36 - 51	28 - 34 - 48	24 - 29 - 41	5.08	658	9.0 - 11.0 - 15.6	8.4 - 10.3 - 14.6	7.2 - 8.8 - 12.4

NOTE: See pages C1-37 for notes.

6500, 56500 (Supply) Suggested Specification & Configuration

1. SERIES: (XXXX)

- 6500 - Round Neck, Steel Perforated Face Supply Diffuser with Backpan Mounted Adjustable Curved Blades
- 56500 - Round Neck, Aluminum Perforated Face, Steel Backpan Supply Diffuser with Backpan Mounted Adjustable Curved Blades

2. PATTERN: (XXX)

- 01 - 1-Way
- 02 - 2-Way
- 03 - 3-Way
- 04 - 4-Way
- 02C - 2-Way Corner

3. DIMENSION 1: ROUND NECK ONLY (XX)

6" - 16" in 2" Increments

4. FRAME: (XXX)

- F20 - Surface Mount
- F23 - Lay-in T-Bar
- F27 - Spline
- F30 - Drop Face
- F98 - Narrow-T

5. PANEL: (XX)x(XX)

- 12"x12"
- 16"x16"
- 12"x24"
- 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

6500, 56500

The perforated face supply diffuser shall be Krueger model 6500 (steel perforated face) or 56500 (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 individually adjustable curved blade deflectors mounted at the neck of the diffuser. The curved blade deflectors shall allow 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 adjustable curved blades for adjustments 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.

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° 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.