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◀ **PRISM**

This supply diffuser features an arcuate faceplate. Center square appliqué offers nine standard colors to match interior décor.

◀ **PLQ & 5PLQ**

This supply diffuser features a square plaque faceplate.

◀ **PLQR**

This supply diffuser features a round plaque faceplate.

◀ **ASDT, 5ASDT, AVDT, & 5AVDT**

The ASD supply diffusers feature square ceiling tile faceplates. The AVD supply diffusers feature an integral, thermally powered thermostat with VAV control damper.

◀ **ASDP, 5ASDP, AVDP, & 5AVDP**

The ASD supply diffusers feature square plaque-style faceplates. The AVD supply diffusers feature an integral, thermally powered thermostat with VAV control damper.

◀ **LVSD**

LVSD Series linear VAV supply diffuser features an aesthetic appearance with zone temperature control. Self contained and powered; requires no electrical wiring.

◀ **KSD**

This architectural supply diffuser features a center swirl.

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ASDP/ASDT | CEILING TILE & PLAQUE DIFFUSERS



INTRODUCTION: ASDP/5ASDP/ASDT/5ASDT

The ASDP/ASDT architectural diffuser provides an aesthetically pleasing appearance which is clean, simple and unobtrusive. The ASDP diffuser provides a metal plaque face while the ASDT provides a frame that accepts a ceiling tile (by others) to form the plaque face. The diffusers discharge air horizontal to the ceiling causing secondary air circulation and mixing. The ASDP matching VAV diffuser is the AVDP. The ASDT matching VAV diffuser is the AVDT.

MODELS

- MODEL ASDP** - Steel, Plaque Supply Diffuser
MODEL 5ASDP - Aluminum, Plaque Supply Diffuser *
MODEL ASDT - Steel, Ceiling Tile Supply Diffuser
MODEL 5ASDT - Aluminum, Ceiling Tile Supply Diffuser *
 ► (*) Product contains steel components.

FEATURES

- Available in Several Discharge Air Patterns (For 24"x24" Panel Only)

PANEL SIZE

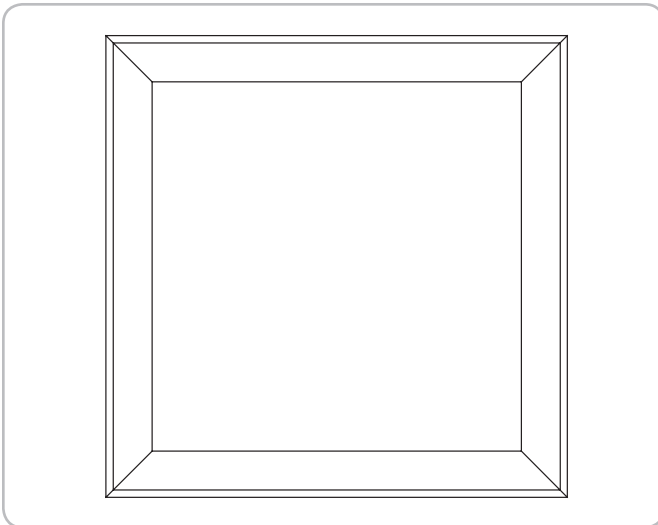
- 12"x12" (ASDP/5ASDP Only)
- 24"x24"

FINISHES

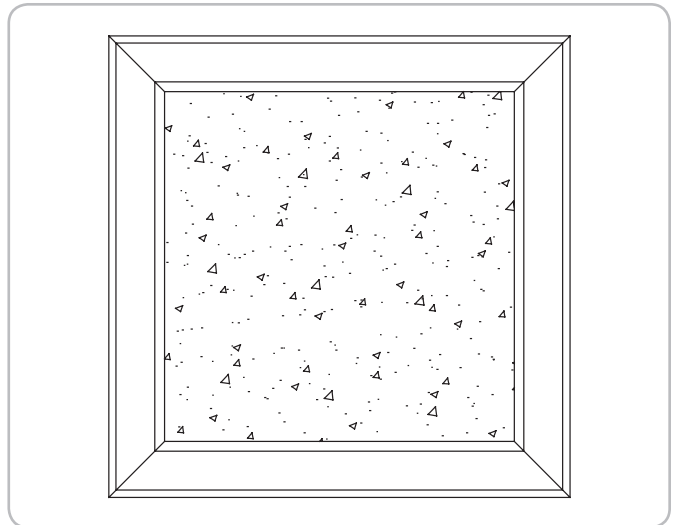
- Standard Finish is British White
- Optional Finishes Available

ASDP/5ASDP/ASDT/5ASDT DIMENSIONAL INFORMATION

▼ ASDP/5ASDP, FACE VIEW (PLAQUE STYLE)



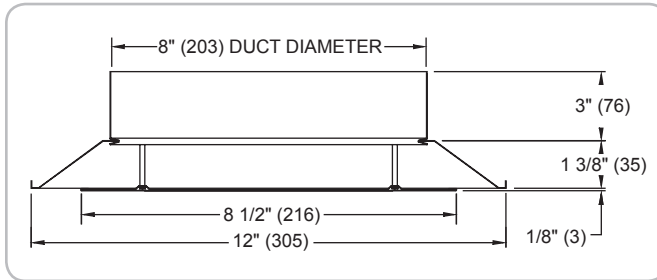
▼ ASDT/5ASDT, FACE VIEW (CEILING TILE STYLE)





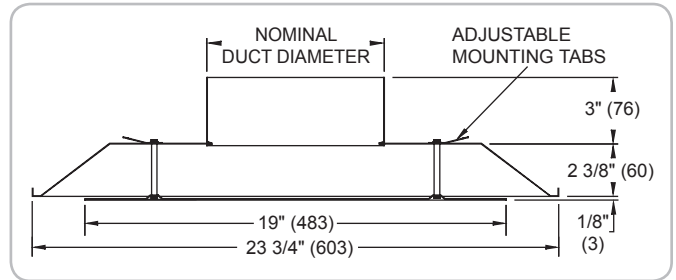
ASDP/5ASDP/ASDT/5ASDT DIMENSIONAL INFORMATION

▼ ASDP/5ASDP, CROSS SECTION 12"x12" PANEL

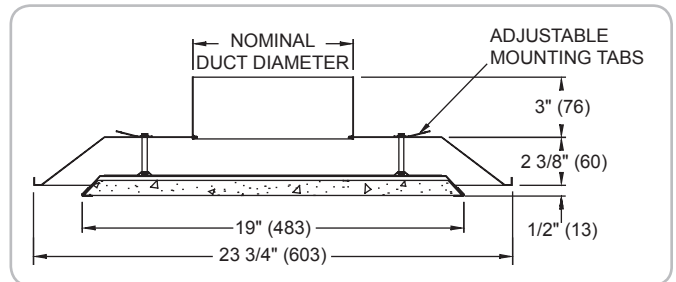


► Dimensions in () are mm.

▼ ASDP/5ASDP, CROSS SECTION 24"x24" PANEL

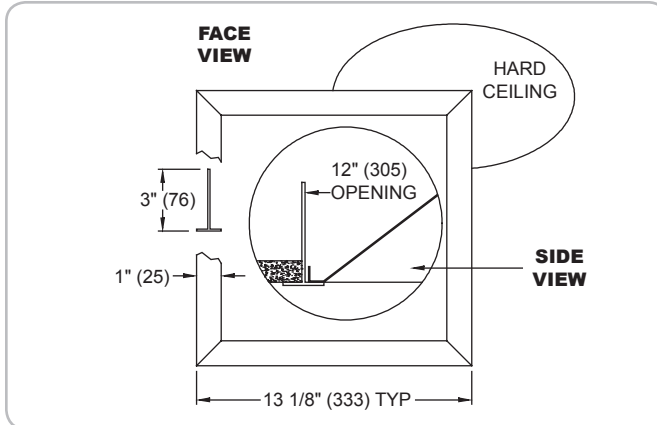


▼ ASDT/5ASDT, CROSS SECTION 24"x24" PANEL

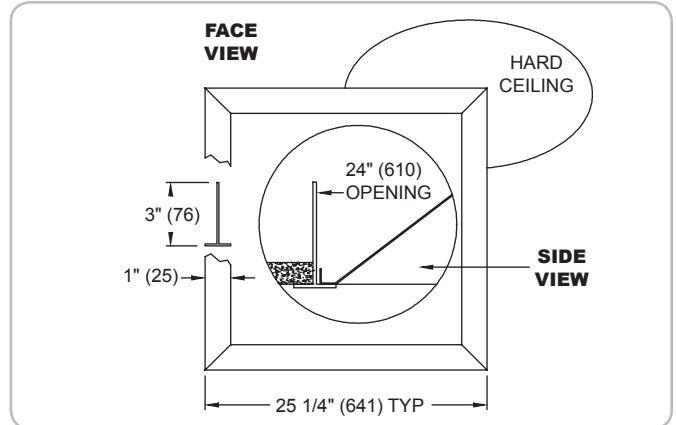


ASDP/5ASDP/ASDT/5ASDT ADAPTER FRAMES

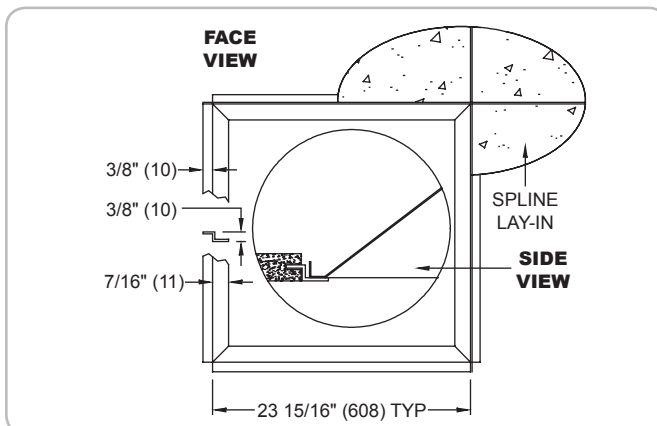
▼ ASDP/5ASDP, FRAME 20, SURFACE MOUNT, ADAPTER FRAME 12"x12" PANEL



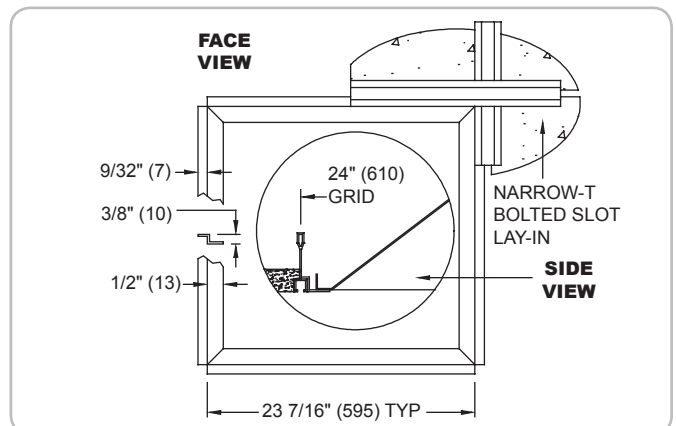
▼ ASDP/5ASDP/ASDT/5ASDT, FRAME 20, SURFACE MOUNT, ADAPTER FRAME 24"x24" PANEL



▼ ASDP/5ASDP/ASDT/5ASDT, FRAME 27, SPLINE, ADAPTER FRAME 24"x24" PANEL



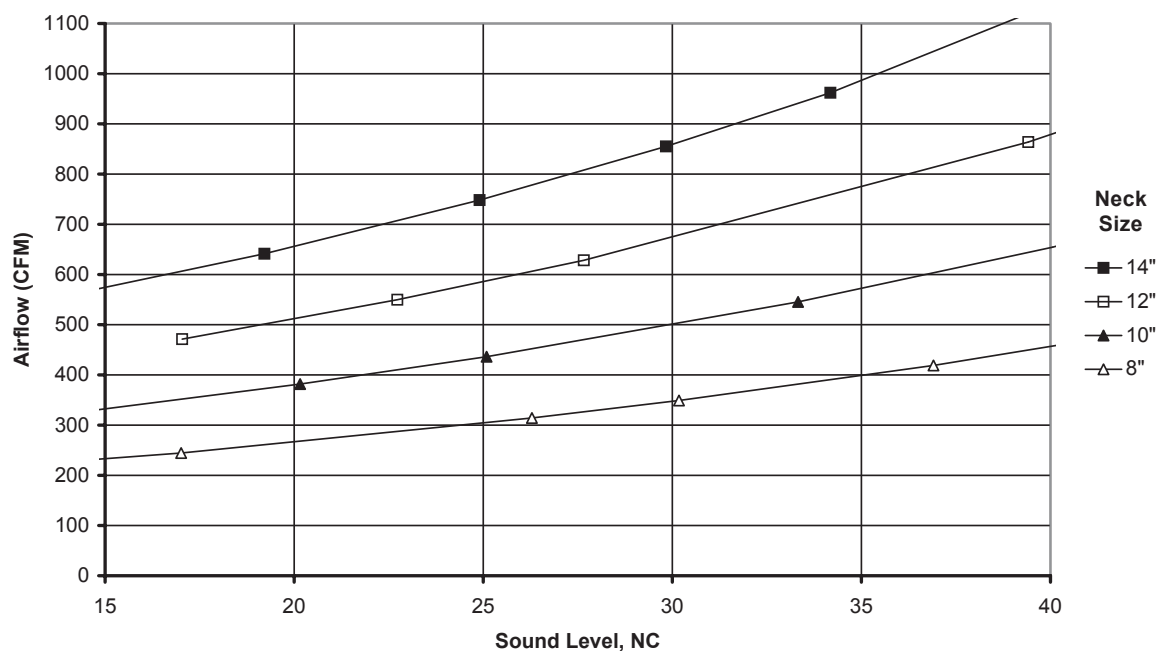
▼ ASDP/5ASDP/ASDT/5ASDT, FRAME 98, NARROW-T, ADAPTER FRAME 24"x24" PANEL



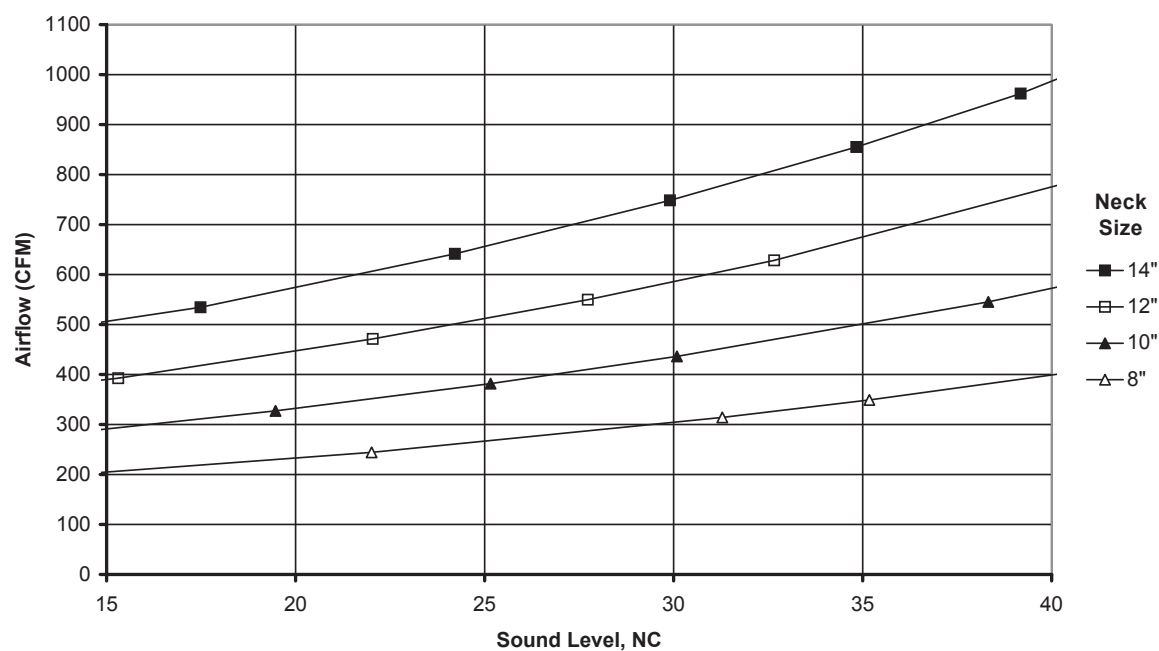


ASDP/5ASDP/ASDT/5ASDT REFERENCE CHARTS

▼ AIRFLOW VS. NC LEVEL: ASDP/5ASDP, 24"x24" PANEL (NO DAMPER)



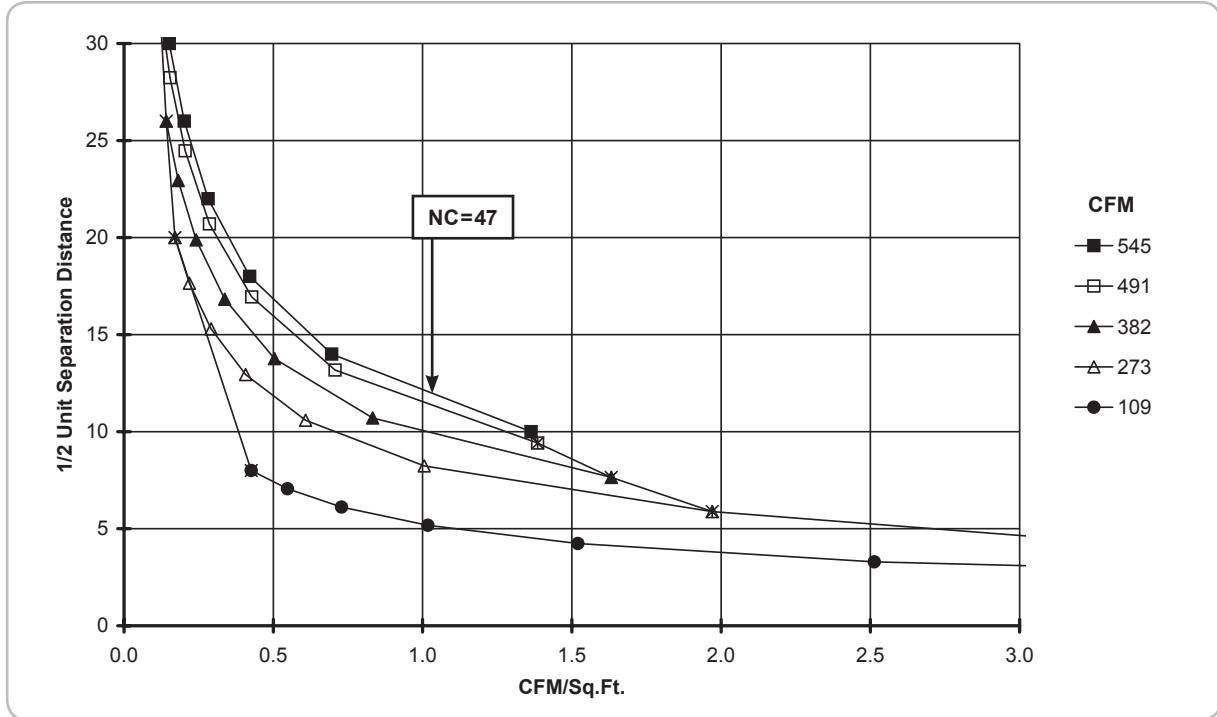
▼ AIRFLOW VS. NC LEVEL: ASDT/5ASDT, 24"x24" PANEL (NO DAMPER)



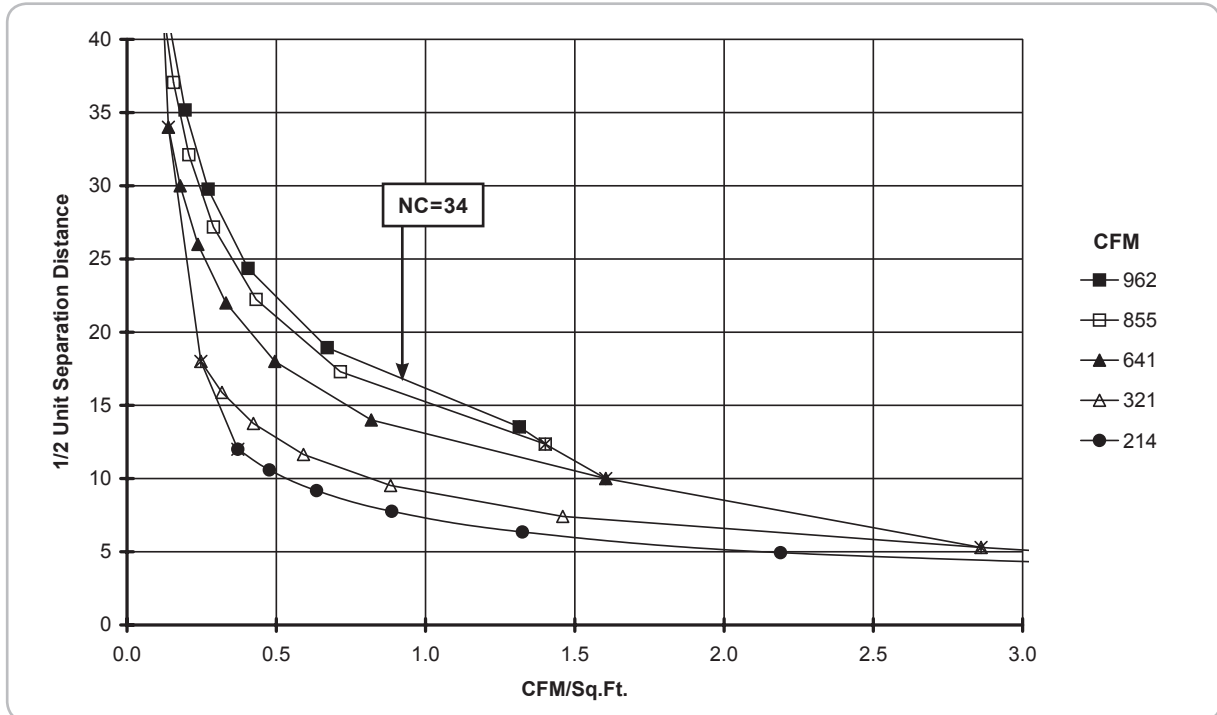


ASDP/5ASDP REFERENCE CHARTS: HORIZONTAL THROW

▼ DIFFUSER SPACING FOR 80% ADPI: ASDP/5ASDP, 24"x24" PANEL, 8" NECK, 4-WAY (NO DAMPER)



▼ DIFFUSER SPACING FOR 80% ADPI: ASDP/5ASDP, 24"x24" PANEL, 14" NECK, 4-WAY (NO DAMPER)



► 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.


ASDP/5ASDP PERFORMANCE DATA: HORIZONTAL THROW
▼ IP/METRIC DATA: ASDP/5ASDP, 24"x24" PANEL (NO DAMPER)

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Ps	Pt	Throw		Neck Vel	Air Flow	Ps	Pt	Throw							
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7	
8" Dia.	200	70	0.006	.009	0 - 1 - 3	-	1.02	33	1.6	2.2	0.1 - 0.2 - 0.9	12	-	-	-	-	-	
	300	105	0.014	.020	1 - 2 - 4	-	1.52	49	3.6	5.0	0.2 - 0.5 - 1.3	23	13	-	-	-	-	
	500	175	0.040	.056	2 - 4 - 7	-	2.54	82	9.9	13.8	0.7 - 1.1 - 2.2	37	29	24	13	-	-	
	600	209	0.057	.080	3 - 4 - 9	11	3.05	99	14.3	19.9	0.9 - 1.3 - 2.6	42	34	30	19	-	-	
	700	244	0.078	.109	3 - 5 - 10	17	3.56	115	19.5	27.1	1.0 - 1.5 - 3.1	46	39	35	25	15	-	
	800	279	0.102	.142	4 - 6 - 12	22	4.06	132	25.4	35.4	1.2 - 1.8 - 3.5	50	43	40	30	20	-	
	900	314	0.129	.180	4 - 6 - 13	26	4.57	148	32.2	44.8	1.3 - 2.0 - 3.9	53	47	43	34	25	11	
	1000	349	0.160	.222	5 - 7 - 14	30	5.08	165	39.8	55.3	1.5 - 2.2 - 4.1	56	50	47	38	30	15	
	1100	384	0.193	.269	5 - 8 - 14	34	5.59	181	48.1	66.9	1.6 - 2.4 - 4.3	58	53	50	42	34	20	
10" Dia.	200	109	0.009	.011	1 - 1 - 4	-	1.02	51	2.1	2.8	0.2 - 0.4 - 1.2	16	-	-	-	-	-	
	300	164	0.019	.025	1 - 3 - 6	-	1.52	77	4.8	6.2	0.4 - 0.8 - 1.8	27	16	-	-	-	-	
	500	273	0.054	.069	3 - 5 - 10	-	2.54	129	13.4	17.3	1.0 - 1.5 - 2.9	41	32	27	16	-	-	
	600	327	0.077	.100	4 - 6 - 12	14	3.05	154	19.3	24.9	1.2 - 1.8 - 3.5	46	37	33	23	12	-	
	700	382	0.105	.136	4 - 7 - 13	20	3.56	180	26.2	33.9	1.4 - 2.0 - 4.1	50	42	38	28	19	-	
	800	436	0.138	.178	5 - 8 - 15	25	4.06	206	34.3	44.2	1.6 - 2.3 - 4.6	53	46	42	33	24	11	
	900	491	0.174	.225	6 - 9 - 16	29	4.57	232	43.4	56.0	1.8 - 2.6 - 4.9	57	50	46	38	29	16	
	1000	545	0.215	.277	6 - 10 - 17	33	5.08	257	53.6	69.1	1.9 - 2.9 - 5.2	59	53	49	41	34	21	
	1100	600	0.260	.336	7 - 11 - 18	37	5.59	283	64.8	83.6	2.1 - 3.2 - 5.4	62	56	53	45	38	26	
12" Dia.	100	79	0.003	.003	0 - 0 - 2	-	0.51	37	0.7	0.9	0.1 - 0.1 - 0.5	-	-	-	-	-	-	
	200	157	0.011	.014	1 - 2 - 5	-	1.02	74	2.8	3.4	0.2 - 0.5 - 1.5	19	-	-	-	-	-	
	300	236	0.025	.031	2 - 4 - 7	-	1.52	111	6.3	7.7	0.5 - 1.1 - 2.2	30	18	12	-	-	-	
	500	393	0.071	.086	4 - 6 - 12	-	2.54	185	17.6	21.5	1.2 - 1.8 - 3.6	44	34	29	19	-	-	
	600	471	0.102	.124	5 - 7 - 14	17	3.05	222	25.4	30.9	1.5 - 2.2 - 4.4	49	40	35	25	15	-	
	700	550	0.139	.169	6 - 8 - 17	23	3.56	259	34.5	42.1	1.7 - 2.6 - 5.1	53	44	40	31	22	-	
	800	628	0.181	.221	6 - 10 - 18	28	4.06	297	45.1	55.0	1.9 - 2.9 - 5.5	57	48	44	36	27	16	
	900	707	0.229	.280	7 - 11 - 19	32	4.57	334	57.1	69.6	2.2 - 3.3 - 5.9	60	52	48	40	32	21	
	1000	785	0.283	.345	8 - 12 - 20	36	5.08	371	70.4	86.0	2.4 - 3.6 - 6.2	63	55	51	44	37	26	
14" Dia.	100	107	0.004	.004	0 - 1 - 2	-	0.51	50	0.9	1.1	0.1 - 0.2 - 0.6	-	-	-	-	-	-	
	200	214	0.015	.017	1 - 2 - 6	-	1.02	101	3.6	4.2	0.3 - 0.6 - 1.7	22	-	-	-	-	-	
	300	321	0.033	.038	2 - 4 - 9	-	1.52	151	8.1	9.5	0.6 - 1.3 - 2.6	33	20	14	-	-	-	
	500	535	0.091	.106	5 - 7 - 14	12	2.54	252	22.6	26.5	1.5 - 2.2 - 4.4	46	36	30	21	-	-	
	600	641	0.131	.153	6 - 9 - 17	19	3.05	303	32.5	38.1	1.7 - 2.6 - 5.2	51	42	36	28	18	-	
	700	748	0.178	.208	7 - 10 - 20	25	3.56	353	44.3	51.9	2.0 - 3.1 - 6.1	56	46	41	33	24	13	
	800	855	0.232	.272	8 - 11 - 21	30	4.06	404	57.8	67.8	2.3 - 3.5 - 6.5	59	50	46	38	30	20	
	900	962	0.294	.345	9 - 13 - 23	34	4.57	454	73.2	85.8	2.6 - 3.9 - 6.9	62	54	50	43	35	25	
	1000	1069	0.363	.425	10 - 14 - 24	38	5.08	505	90.4	105.9	2.9 - 4.4 - 7.2	65	57	53	47	39	30	

► 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 K-Select program for performance data not shown, including octave band data.


ASDP/5ASDP/ASDT/4ASDT SUGGESTED SPECIFICATION & CONFIGURATION
1. DIFFUSER SERIES: (XXXXX)

ASDP - Steel Construction, Plaque-Style Face
 5ASDP - Aluminum Construction, Plaque-Style Face ***
 ASDT - Steel Construction, Ceiling Tile Face
 5ASDT - Aluminum Construction, Ceiling Tile Face ***

2. INLET: (XX)

8"
 10"
 12"
 14"

3. PANEL: (XX)x(XX)

12"x12" *
 24"x24" **

4. FINISH: (XX)

01 - Mill
 10 - Alumican
 35 - Black
 44 - British White

- (*) 12"x12" Panel only available with 8" inlet.
 (**) ASDT & 5ASDT only available in 24"x24" panel.
 (***) Product contains steel components.

1. ACCESSORY SERIES: (XXXXXXXX)

(Applicable to ASDP, 5ASDP, ASDT, 5ASDT, AVDP, 5AVDP, AVDT, and 5AVDT)
 AVDPPF - Steel Surface Mount Frame
 5AVDPPF - Aluminum Surface Mount Frame
 AVDPFF - Steel Fine-Line Frame
 5AVDPFF - Aluminum Fine-Line Frame
 AVDPSF - Steel Square Spline Frame
 5AVDPSF - Aluminum Spline Frame
 DBTAB - Steel Directional Blow Tab
 5DBTAB - Aluminum Directional Blow Tab

2. PANEL: (XX)x(XX)

12"x12"
 24"x24" *

3. FINISH: (XX)

01 - Mill
 10 - Alumican
 35 - Black
 44 - British White

- (*) ASDT, 5ASDT, AVDT, and 5AVDT models are only available in 24"x24" panel.

ASDP/5ASDP

The architectural plaque face diffuser shall be Krueger model ASDP (steel) or 5ASDP (aluminum). The ASDP shall be constructed of 24 gage galvanized steel and the 5ASDP shall be constructed of 0.040" aluminum. The diffusers shall have a square face and round neck resulting in 360° discharge of air in the horizontal plane. The plaque face shall not exceed 1/8" drop below the ceiling plane.

ASDT/5ASDT

The architectural ceiling tile face diffuser shall be Krueger model ASDT (steel) or 5ASDT (aluminum). The diffuser shall have an appearance panel consisting of a back pan and 4 flanged side plates with mitered corners for installing ceiling tile provided by the ceiling contractor. The ASDT shall be constructed of 24 gage galvanized steel and the 5ASDT shall be constructed of 0.040" aluminum. The diffusers shall have a square face and round neck resulting in 360° discharge of air in the horizontal plane. The appearance panel with ceiling tile installed shall not exceed 1/2" drop below the ceiling plane.

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 British White.