

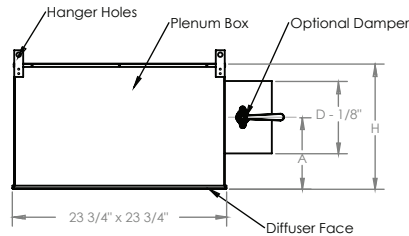
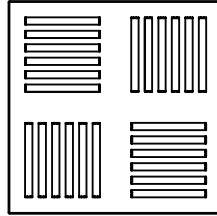
AIRCONCEPTS

AIR DISTRIBUTION PRODUCTS



VSD SERIES

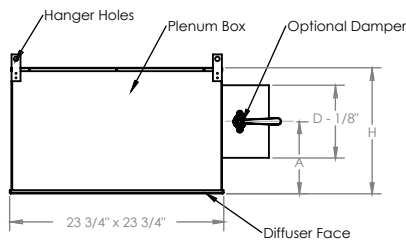
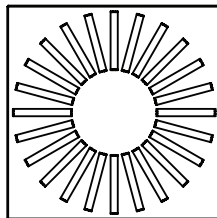
VSDC



VSDC Dimensions in Inches

MODEL	D	H	A
VSDC-06	6	10	5
VSDC-08	8	10	5 1/2
VSDC-10	10	14	7
VSDC-12	12	14	7 1/2

VSDR



HIGH ASPIRATION AIR OUTLET

- Swirl Pattern Design
- Lay-In Panel
- Easy Installation

VSDR Dimensions in Inches

MODEL	D	H	A
VSDR-06	6	10	5
VSDR-08	8	10	5 1/2
VSDR-10	10	14	7
VSDR-12	12	14	7 1/2

Adjustability

Adjustable Aluminum Deflectors

Construction

Heavy gauge aluminum face
Steel plenum box & flex duct collar

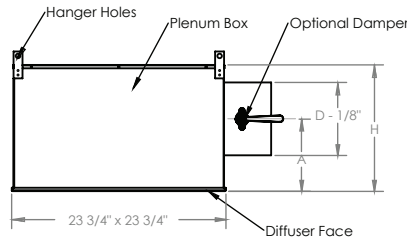
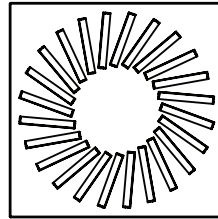
Finishes

#00 Mill
#12 Anodized powder coat
#42 Gloss black powder coat
#43 Flat black powder coat
#52 White powder coat
#62 Grey prime powder coat
#72 Silver metallic powder coat
Custom colors available

VSDT

VSDT Dimensions in Inches

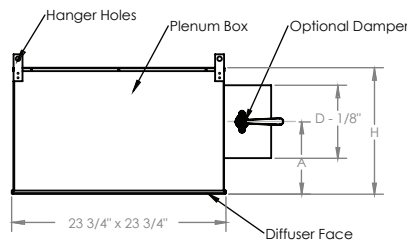
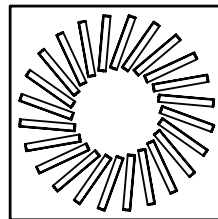
MODEL	D	H	A
VSDT-06	6	10	5
VSDT-08	8	10	5 1/2
VSDT-10	10	14	7
VSDT-12	12	14	7 1/2



VSDX

VSDX Dimensions in Inches

MODEL	D	H	A
VSDX-06	6	10	5
VSDX-08	8	10	5 1/2
VSDX-10	10	14	7
VSDX-12	12	14	7 1/2



Adjustability

Adjustable Aluminum Deflectors

Construction

Heavy gauge aluminum face
Steel plenum box & flex duct collar

Finishes

#00 Mill
#12 Anodized powder coat
#42 Gloss black powder coat
#43 Flat black powder coat
#52 White powder coat
#62 Grey prime powder coat
#72 Silver metallic powder coat
Custom colors available

VSD-C/R [Performance Data]

MODEL	Duct Velocity Velocity Pressure	400 0.01	600 0.022	800 0.04	1000 0.062	1200 0.089	1400 0.122
VSDC-06	CFM	78	118	157	196	235	274
	Total Pressure	0.013	0.072	0.052	0.077	0.11	0.15
	NC	<15	<15	<15	<15	<15	17
	Radius of Diffusion	0-1-2	1-2-4	2-3-7	3-4-8	4-6-9	4-7-10
VSDC-08	CFM	140	210	280	350	420	490
	Total Pressure	0.018	0.04	0.072	0.112	0.159	0.216
	NC	<15	<15	15	20	25	29
	Radius of Diffusion	1-2-4	2-3-7	3-4-9	4-6-11	5-8-12	6-10-14
VSDC-10	CFM	218	327	436	545	654	763
	Total Pressure	0.031	0.068	0.124	0.187	0.274	0.362
	NC	<15	17	24	30	34	39
	Radius of Diffusion	2-3-7	3-5-10	5-7-12	6-9-14	7-11-16	8-13-18
VSDC-12	CFM	314	471	628	785	942	1099
	Total Pressure	0.058	0.127	0.23	0.352	0.504	0.712
	NC	<15	24	31	37	42	45
	Radius of Diffusion	3-5-10	5-8-13	7-10-15	8-12-17	9-13-19	11-15-23

Performance data based on ASHRAE 70-06

MODEL	Duct Velocity Velocity Pressure	400 0.01	600 0.022	800 0.04	1000 0.062	1200 0.089	1400 0.122
VSDR-06	CFM	78	118	157	196	235	274
	Total Pressure	0.014	0.03	0.057	0.09	0.122	0.171
	NC	<15	<15	<15	<15	18	23
	Radius of Diffusion	0-1-2	1-2-4	2-3-7	3-4-8	4-6-9	4-7-10
VSDR-08	CFM	140	210	280	350	420	490
	Total Pressure	0.022	0.049	0.088	0.136	0.197	0.267
	NC	<15	<15	20	27	32	37
	Radius of Diffusion	1-2-4	2-3-7	3-4-9	4-6-11	5-8-12	6-10-14
VSDR-10	CFM	218	327	436	545	654	763
	Total Pressure	0.034	0.081	0.144	0.227	0.324	0.433
	NC	<15	21	30	37	43	48
	Radius of Diffusion	2-3-7	3-5-10	5-7-12	6-9-14	7-11-16	8-13-18
VSDR-12	CFM	314	471	628	785	942	1099
	Total Pressure	0.06	0.132	0.255	0.367	0.529	0.772
	NC	16	28	37	44	50	54
	Radius of Diffusion	3-5-10	5-8-13	7-10-15	8-12-17	9-13-19	11-15-23

Performance data based on ASHRAE 70-06

RADIUS OF DIFFUSION:

Horizontal distance (THROW) in feet from the Diffuser at which the maximum velocity has been reduced to specified terminal velocity (Vt).

TERMINAL VELOCITY:

Maximum velocity (Vt) in feet per minute at the specified distance from the outlet face (THROW) 150 fpm, 100 fpm and 50 fpm respectively.

AIRFLOW CFM: Standard air density and isothermal conditions.

TOTAL PRESSURE: Inches of water gauge required.

NOISE CRITERIA:

Noise criteria (NC) curve which is not exceeded with a Room Attenuation of 10db and based on Sound Power Level Re: 10-12 watts.

MODEL	Duct Velocity Velocity Pressure	400 0.01	600 0.022	800 0.04	1000 0.062	1200 0.089	1400 0.122
VSDT-06	CFM	78	118	157	196	235	274
	Total Pressure	0.014	0.03	0.057	0.09	0.122	0.171
	NC	<15	<15	<15	<15	18	23
	Radius of Diffusion	0-1-2	1-2-4	2-3-7	3-4-8	4-6-9	4-7-10
VSDT-08	CFM	140	210	280	350	420	490
	Total Pressure	0.022	0.049	0.088	0.136	0.197	0.267
	NC	<15	<15	20	27	32	37
	Radius of Diffusion	1-2-4	2-3-7	3-4-9	4-6-11	5-8-12	6-10-14
VSDT-10	CFM	218	327	436	545	654	763
	Total Pressure	0.034	0.081	0.144	0.227	0.324	0.433
	NC	<15	21	30	37	43	48
	Radius of Diffusion	2-3-7	3-5-10	5-7-12	6-9-14	7-11-16	8-13-18
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	NC	16	28	37	44	50	54
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Performance data based on ASHRAE 70-06

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VSDX-06	CFM	78	118	157	196	235	274
	Total Pressure	0.014	0.031	0.058	0.09	0.128	0.175
	NC	<15	<15	<15	<15	17	22
	Radius of Diffusion	0-1-2	1-2-4	2-3-7	3-4-8	4-6-9	4-7-10
VSDX-08	CFM	140	210	280	350	420	490
	Total Pressure	0.022	0.048	0.088	0.134	0.193	0.264
	NC	<15	<15	19	25	30	34
	Radius of Diffusion	1-2-4	2-3-7	3-4-9	4-6-11	5-8-12	6-10-14
VSDX-10	CFM	218	327	436	545	654	763
	Total Pressure	0.035	0.076	0.136	0.212	0.304	0.412
	NC	<15	21	29	34	39	44
	Radius of Diffusion	2-3-7	3-5-10	5-7-12	6-9-14	7-11-16	8-13-18
VSDX-12	CFM	314	471	628	785	942	1099
	Total Pressure	0.054	0.118	0.215	0.322	0.459	0.664
	NC	<15	28	36	41	46	50
	Radius of Diffusion	3-5-10	5-8-13	7-10-15	8-12-17	9-13-19	11-15-23

Performance data based on ASHRAE 70-06

RADIUS OF DIFFUSION: Horizontal distance (THROW) in feet from the Diffuser at which the maximum velocity has been reduced to specified terminal velocity (Vt).

TERMINAL VELOCITY: Maximum velocity (Vt) in feet per minute at the specified distance from the outlet face (THROW) 150 fpm, 100 fpm and 50 fpm respectively.

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