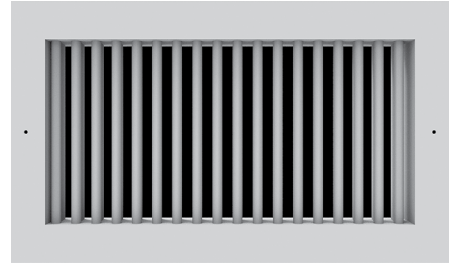


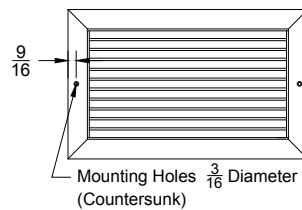
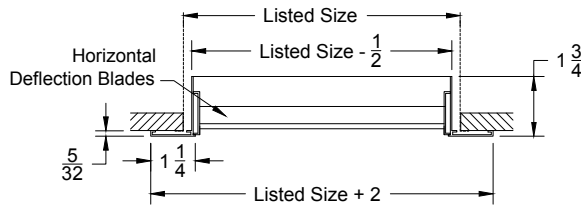
MODEL 4000-AF

The 4000-AF series is METALAIRE's premier product, offering superior construction and high performance with aerodynamic airfoil blades. The 4000-AF is available in aluminum (4000-AF) and steel (4000S-AF) construction. It is also available in single deflection (4002-AF/4002S-AF) and double deflection (4004-AF/4004S-AF).



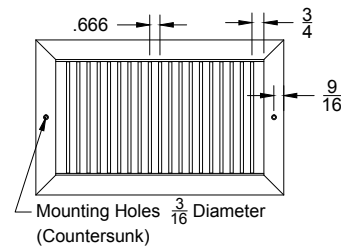
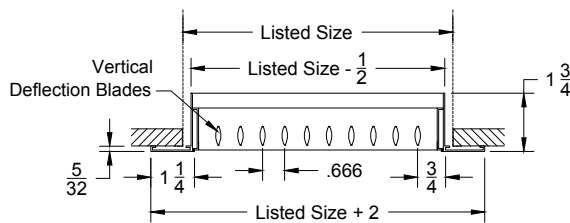
- Available with either vertical or horizontal front blades
- Fully adjustable blades assembled on 2/3" center
- Extruded aluminum airfoil blades
- Optional opposed blade damper available in steel (OBD) or aluminum (OBDA)

Model: H4002-AF-1 - Single Deflection Grille With Horizontal Blades



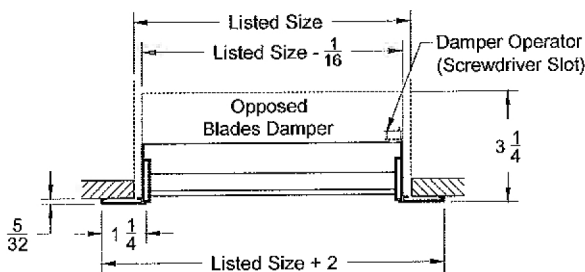
Front View (Horizontal Blades)

Model: V4002-AF-1 - Single Deflection Grille With Vertical Blades

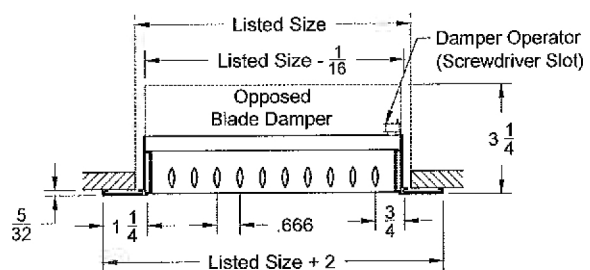


Front View (Vertical Blades)

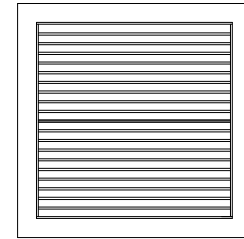
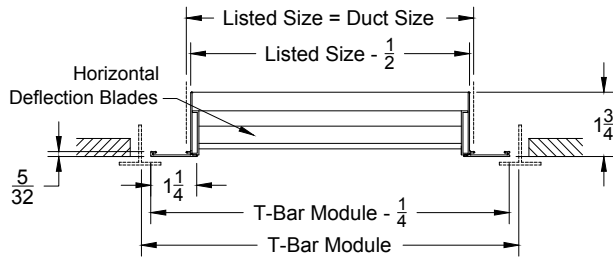
Model: H4002-AF-1 OBD - Single Deflection Register With Opposed Blade Damper - With Horizontal Blades



Model: V4002-AF-1 OBD - Single Deflection Register With Opposed Blade Damper - With Vertical Blades

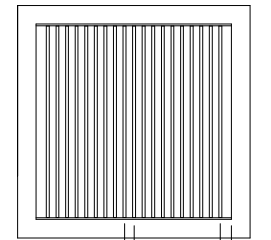
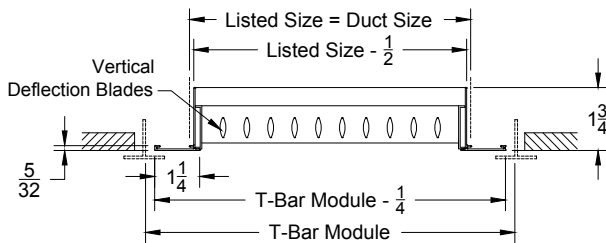


**Model: H4002-AF-6 Lay In T-Bar - Single Deflection Grille
With Horizontal Blades**



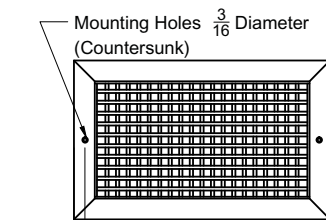
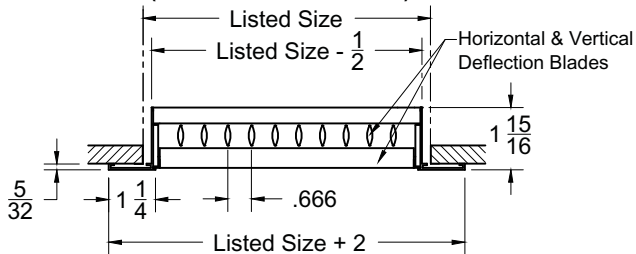
**Front View
(Horizontal Blades)**

**Model: V4002-AF-6 Lay In T-Bar - Single Deflection Grille
With Vertical Blades**



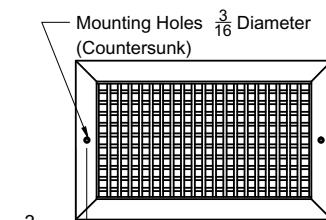
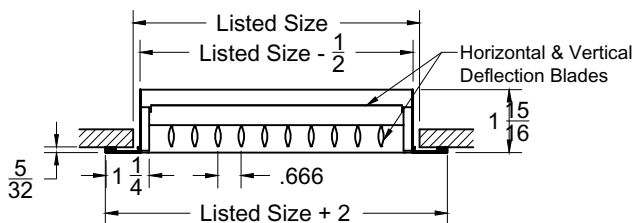
**Front View
(Vertical Blades)**

**Model: H4004-AF-1 (Double Deflection Grille)
(Horizontal Front Blades)**



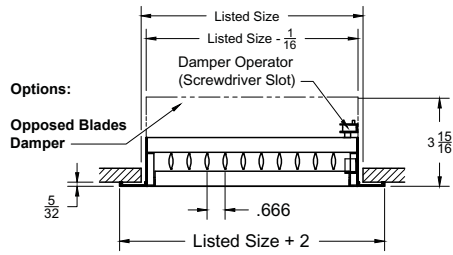
**Face View
(Double Deflection)
(Horizontal Front Blades)**

**Model: V4004-AF-1 (Double Deflection Grille)
(Vertical Front Blades)**

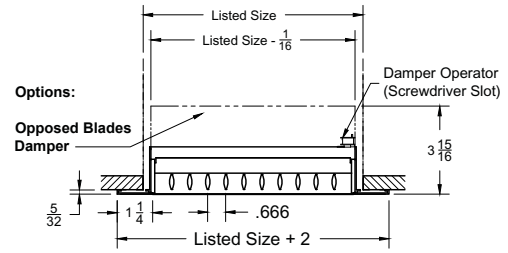


**Face View
(Double Deflection)
(Vertical Front Blades)**

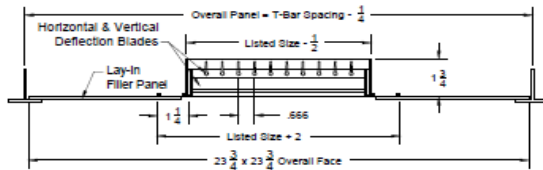
**Model: H4004-AF-1 OBD (Double Deflection Register)
(Horizontal Front Blades)
With Opposed Blade Damper**



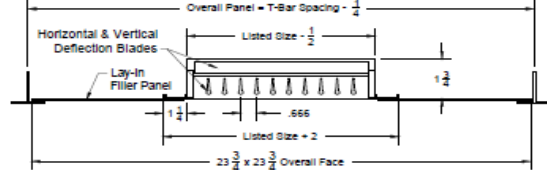
**Model: V4004D-AF-1 OBD (Double Deflection Register)
(Vertical Front Blades)
With Opposed Blade Damper**



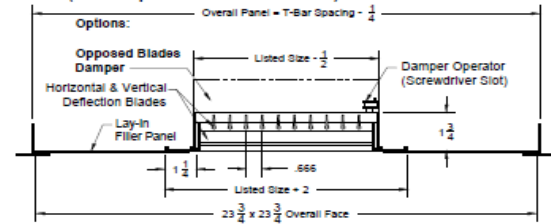
**Model: H4004-AF-6 (Double Deflection Grille) Lay in T-Bar - With Filler Panel
(Horizontal Front Blades)**



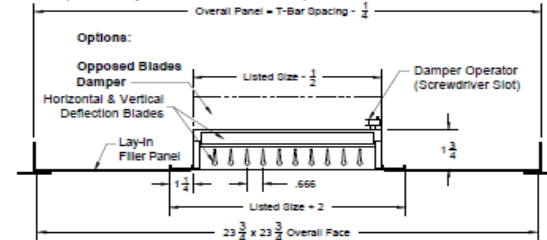
**Model: V4004-AF-6 (Double Deflection Grille) Lay in T-Bar - With Filler Panel
(Vertical Front Blades)**



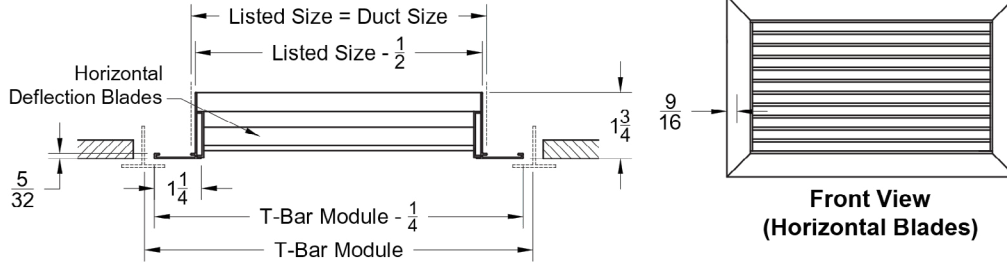
**Model: H4004-AF-6 (Double Deflection Grille) Lay in T-Bar - With Filler Panel
(With Damper - Horizontal Front Blades)**



**Model: V4004-AF-6 (Double Deflection Grille) Lay in T-Bar - With Filler Panel
(With Damper Vertical Front Blades)**

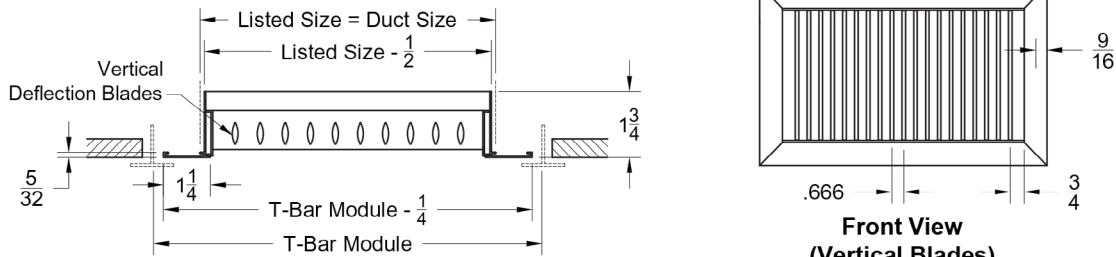


**Model: H4002S-AF-6 Lay In T-Bar - Single Deflection Grille
With Horizontal Blades**



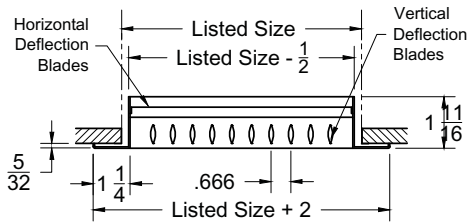
**Front View
(Horizontal Blades)**

**Model: V4002S-AF-6 Lay In T-Bar - Single Deflection Grille
With Vertical Blades**

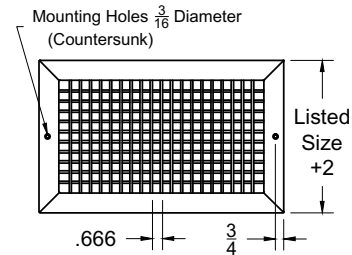


**Front View
(Vertical Blades)**

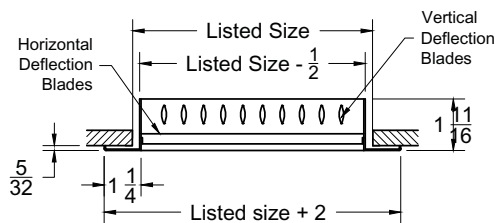
Model: V4004S-AF-1 (Double Deflection Grille - Vertical Front Blades)



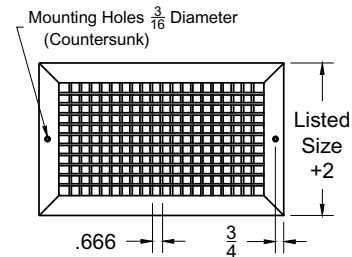
**Front View (Double Deflection)
(Vertical Front Blades)**



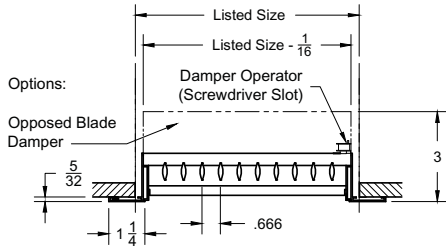
Model: H4004S-AF-1 (Double Deflection Grille - Horizontal Front Blades)



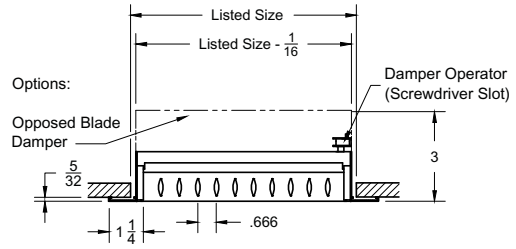
**Front View (Double Deflection)
(Horizontal Front Blades)**



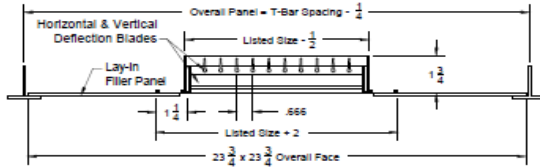
**Option: H4004S-AF-1-OBD (Double Deflection Register)
(Horizontal Front Blades)
With Opposed Blade Damper**



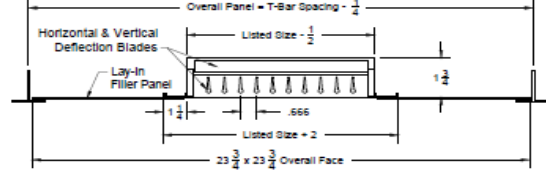
**Option: V4004S-AF-1-OBD (Double Deflection Register)
(Vertical Front Blades)
With Opposed Blade Damper**



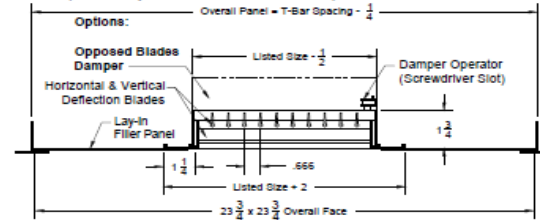
**Model: H4004S-AF-6 (Double Deflection Grille) Lay in T-Bar - With Filler Panel
(Horizontal Front Blades)**



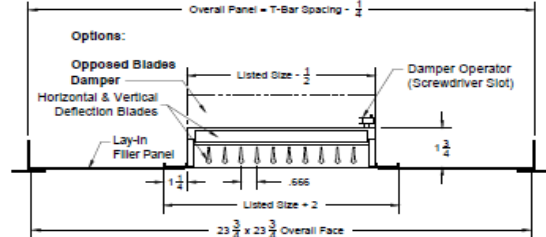
**Model: V4004S-AF-6 (Double Deflection Grille) Lay in T-Bar - With Filler Panel
(Vertical Front Blades)**



**Model: H4004S-AF-6 (Double Deflection Grille) Lay in T-Bar - With Filler Panel
(With Damper - Horizontal Front Blades)**



**Model: V4004S-AF-6 (Double Deflection Grille) Lay in T-Bar - With Filler Panel
(With Damper Vertical Front Blades)**



SERIES 4000-AF SPECIFICATIONS**SUPPLY — SINGLE DEFLECTION —
AIRFOIL BLADE - ALUMINUM/STEEL —
MODEL 4002-AF/4002S-AF**

- Air outlets shall be model V4002-AF/V4002S-AF (vertical front blades) or H4002-AF/H4002S-AF (horizontal front blades) manufactured by METALAIRE. Units shall be single deflection supply grilles of aluminum (4002-AF) or steel (4002S-AF) construction and a single set of vertical blades. The units shall be the size and quantity as outlined in the plans and specifications. Border shall be 1 1/4" wide with aerodynamically shaped deflector blades on 2/3" center. Deflector blades shall be individually adjustable. Units designed for surface mounting applications shall be provided with screw holes in the face of the device. Blades shall pivot in friction mounting retainers. Retainers shall hold the deflector blade position throughout the specified operating range of the device. Metal friction wires are not acceptable.
- Optional opposed blade damper shall be constructed of steel (Model OBD) or aluminum (Model OBDA).
- Damper must be operable from the face of the register.

**SUPPLY — DOUBLE DEFLECTION —
AIRFOIL BLADE - ALUMINUM/STEEL —
MODEL 4004-AF/4004S-AF**

- Air outlets shall be model V4004/V4004S (vertical front blades) or H4004-AF/H4004S-AF (horizontal front blades) manufactured by METALAIRE. Units shall be double deflection supply grilles of aluminum (4004-AF) or steel (4004S-AF) construction with front vertical blades and rear horizontal blades. The units shall be the size and quantity as outlined in the plans and specifications. Border shall be 1 1/4" wide with aerodynamically shaped deflector blades on 2/3" center. Deflector blades shall be individually adjustable. Units designed for surface mounting applications shall be provided with screw holes in the face of the device. Blades shall pivot in friction mounting retainers. Retainers shall hold the deflector blade position throughout the specified operating range of the device. Metal friction wires are not acceptable.
- Optional opposed blade damper shall be constructed of steel (Model OBD) or aluminum (Model OBDA).
- Damper must be operable from the face of the register.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70-2006.

Paint Specification

Process shall be anodic electro-deposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

4000 MODEL NUMBER SPECIFICATION

SINGLE / DOUBLE DEFLECTION SURFACE MOUNT— AIR FOIL BLADE

Model		Neck											
		6	8	10	12	14	16	18	20	22	24	26	
V4002-AF-1	Al. - Vertical Blade - Single Def.		X	X	X	X	X	X	X	X	X	X	
H4002-AF-1	Al. - Horizontal Blade - Single Def.	4	X	X	X	X	X	X	X	X	X	X	
V4002S-AF-1	Steel - Vertical Blade - Single Def.	5	X	X	X	X	X	X	X	X	X	X	
H4002S-AF-1	Steel - Horizontal Blade - Single Def.	6	X	X	X	X	X	X	X	X	X	X	
V4004-AF-1	Al. - Vertical Blade - Double Def.	8	X	X	X	X	X	X	X	X	X	X	
H4004-AF-1	Al. - Horizontal Blade - Double Def.	10	X	X	X	X	X	X	X	X	X	X	
V4004S-AF-1	Steel - Vertical Blade - Double Def.	12	X	X	X	X	X	X	X	X	X	X	
H4004S-AF-1	Steel - Horizontal Blade - Double Def.	14	X	X	X	X	X	X	X	X	X	X	
		16	X	X	X	X	X	X	X	X	X	X	
		18	X	X	X	X	X	X	X	X	X	X	
		20	X	X	X	X	X	X	X	X	X	X	
		22	X	X	X	X	X	X	X	X	X	X	
		24	X	X	X	X	X	X	X	X	X	X	
		26	X	X	X	X	X	X	X	X	X	X	
		28	X	X	X	X	X	X	X	X	X	X	
		30	X	X	X	X	X	X	X	X	X	X	
		32	X	X	X	X	X	X	X	X	X	X	
		34	X	X	X	X	X	X	X	X	X	X	
		36	X	X	X	X	X	X	X	X	X	X	
		38	X	X	X	X	X	X	X	X	X	X	
		40	X	X	X	X	X	X	X	X	X	X	
		42	X	X	X	X	X	X	X	X	X	X	
		44	X	X	X	X	X	X	X	X	X	X	
		46	X	X	X	X	X	X	X	X	X	X	
		48	X	X	X	X	X	X	X	X	X	X	

Available Finishes		Available Accessories	
Standard		OBD	Steel Opposed Blade Damper
01	White	OBDA	Aluminum Opposed Blade Damper
Optional		L9	Equalizing Grid
02	Satin Silver	PF	Plaster Frame
03	Black	LIPF	Lay-in Plaster Frame
04	Clear Anodized (Al. Const. Only)	IS	Insect Screen
24	Mill (Al. Construction Only)	TR	Square to Round Transition
28	Custom Color	TR Deep	Deep Square to Round Transition

Available Options	
NSH	No Screw Holes
CM	Concealed Mounting

4000 MODEL NUMBER SPECIFICATION

SINGLE / DOUBLE DEFLECTION SURFACE MOUNT— AIR FOIL BLADE

Model		Neck											
		28	30	32	34	36	38	40	42	44	46	48	
V4002-AF-1	Al. - Vertical Blade - Single Def.												
H4002-AF-1	Al. - Horizontal Blade - Single Def.	4	X	X	X	X	X	X	X	X	X	X	
V4002S-AF-1	Steel - Vertical Blade - Single Def.	5	X	X	X	X	X	X	X	X	X	X	
H4002S-AF-1	Steel - Horizontal Blade - Single Def.	6	X	X	X	X	X	X	X	X	X	X	
V4004-AF-1	Al. - Vertical Blade - Double Def.	8	X	X	X	X	X	X	X	X	X	X	
H4004-AF-1	Al. - Horizontal Blade - Double Def.	10	X	X	X	X	X	X	X	X	X	X	
V4004S-AF-1	Steel - Vertical Blade - Double Def.	12	X	X	X	X	X	X	X	X	X	X	
H4004S-AF-1	Steel - Horizontal Blade - Double Def.	14	X	X	X	X	X	X	X	X	X	X	
		16	X	X	X	X	X	X	X	X	X	X	
		18	X	X	X	X	X	X	X	X	X	X	
		20	X	X	X	X	X	X	X	X	X	X	
		22	X	X	X	X	X	X	X	X	X	X	
		24	X	X	X	X	X	X	X	X	X	X	
		26	X	X	X	X	X	X	X	X	X	X	
		28	X	X	X	X	X	X	X	X	X	X	
		30	X	X	X	X	X	X	X	X	X	X	
		32	X	X	X	X	X	X	X	X	X	X	
		34	X	X	X	X	X	X	X	X	X	X	
		36	X	X	X	X	X	X	X	X	X	X	
		38	X	X	X	X	X	X	X	X	X	X	
		40	X	X	X	X	X	X	X	X	X	X	
		42	X	X	X	X	X	X	X	X	X	X	
		44	X	X	X	X	X	X	X	X	X	X	
		46	X	X	X	X	X	X	X	X	X	X	
		48	X	X	X	X	X	X	X	X	X	X	

Available Finishes		Available Accessories	
Standard		OBD	Steel Opposed Blade Damper
01	White	OBDA	Aluminum Opposed Blade Damper
Optional		L9	Equalizing Grid
02	Satin Silver	PF	Plaster Frame
03	Black	LIPF	Lay-in Plaster Frame
04	Clear Anodized (Al. Const. Only)	IS	Insect Screen
24	Mill (Al. Construction Only)	TR	Square to Round Transition
28	Custom Color	TR Deep	Deep Square to Round Transition

Available Options	
NSH	No Screw Holes
CM	Concealed Mounting

4000-AF-6 MODEL NUMBER SPECIFICATION SINGLE / DOUBLE DEFLECTION LAY-IN — AIR FOIL BLADE

Model		Neck											Module
		6	8	10	12	14	16	18	20	22	24		
V4002-AF-6	Al. - Vertical Blade - Single Def.												12 x 12
H4002-AF-6	Al. - Horizontal Blade - Single Def.	4	X	X									
V4002S-AF-6	Steel - Vertical Blade - Single Def.	6	X	X									
H4002S-AF-6	Steel - Horizontal Blade - Single Def.	8	X	X									
V4004-AF-6	Al. - Vertical Blade - Double Def.	10			X								24 x 12
H4004-AF-6	Al. - Horizontal Blade - Double Def.	4	X	X	X	X	X	X	X				
V4004S-AF-6	Steel - Vertical Blade - Double Def.	6	X	X	X	X	X	X	X	X			
H4004S-AF-6	Steel - Horizontal Blade - Double Def.	8	X	X	X	X	X	X	X	X			
		10								X			
		4	X	X	X	X	X	X	X	X			24 x 24
		6	X	X	X	X	X	X	X	X			
		8	X	X	X	X	X	X	X	X			
		10	X	X	X	X	X	X	X	X			
		12	X	X	X	X	X	X	X	X			
		14	X	X	X	X	X	X	X	X			
		16	X	X	X	X	X	X	X	X			
		18	X	X	X	X	X	X	X	X			
		20	X	X	X	X	X	X	X	X			
		22								X			
		4	X	X	X	X	X	X	X	X	X		48 x 24
		6	X	X	X	X	X	X	X	X	X		
		8	X	X	X	X	X	X	X	X	X		
		10	X	X	X	X	X	X	X	X	X		
		12	X	X	X	X	X	X	X	X	X		
		14	X	X	X	X	X	X	X	X	X		
		16	X	X	X	X	X	X	X	X	X		
		18	X	X	X	X	X	X	X	X	X		
		20	X	X	X	X	X	X	X	X	X		

Available Finishes		Available Accessories	
Standard		OBD	Steel Opposed Blade Damper
01	White	OBDA	Aluminum Opposed Blade Damper
Optional		L9	Equalizing Grid
02	Satin Silver	TBPF	T-bar Plaster Frame
03	Black	IS	Insect Screen
24	Mill (Al. Construction Only)	TR	Square to Round Transition
28	Custom Color	TR Deep	Deep Square to Round Transition

4000-AF-6 MODEL NUMBER SPECIFICATION

SINGLE / DOUBLE DEFLECTION LAY-IN — AIR FOIL BLADE

Model		Neck											Module
		6	8	10	12	14	16	18	20	22	24		
V4002-AF-6	Al. - Vertical Blade - Single Def.		X	X	X	X	X	X	X	X	X	X	48 x 48
H4002-AF-6	Al. - Horizontal Blade - Single Def.	4	X	X	X	X	X	X	X	X	X	X	
V4002S-AF-6	Steel - Vertical Blade - Single Def.	6	X	X	X	X	X	X	X	X	X	X	
H4002S-AF-6	Steel - Horizontal Blade - Single Def.	8	X	X	X	X	X	X	X	X	X	X	
V4004-AF-6	Al. - Vertical Blade - Double Def.	10	X	X	X	X	X	X	X	X	X	X	
H4004-AF-6	Al. - Horizontal Blade - Double Def.	12	X	X	X	X	X	X	X	X	X	X	
V4004S-AF-6	Steel - Vertical Blade - Double Def.	14	X	X	X	X	X	X	X	X	X	X	
H4004S-AF-6	Steel - Horizontal Blade - Double Def.	16	X	X	X	X	X	X	X	X	X	X	
		18	X	X	X	X	X	X	X	X	X	X	
		20	X	X	X	X	X	X	X	X	X	X	
		22	X	X	X	X	X	X	X	X	X	X	
		24	X	X	X	X	X	X	X	X	X	X	
		26	X	X	X	X	X	X	X	X	X	X	
		28	X	X	X	X	X	X	X	X	X	X	
		30	X	X	X	X	X	X	X	X	X	X	
		32	X	X	X	X	X	X	X	X	X	X	
		34	X	X	X	X	X	X	X	X	X	X	
		36	X	X	X	X	X	X	X	X	X	X	
		38	X	X	X	X	X	X	X	X	X	X	
		40	X	X	X	X	X	X	X	X	X	X	
		42	X	X	X	X	X	X	X	X	X	X	
		44	X	X	X	X	X	X	X	X	X	X	

Available Finishes		Available Accessories	
Standard		OBD	Steel Opposed Blade Damper
01	White	OBDA	Aluminum Opposed Blade Damper
Optional		L9	Equalizing Grid
02	Satin Silver	TBPF	T-bar Plaster Frame
03	Black	IS	Insect Screen
24	Mill (Al. Construction Only)	TR	Square to Round Transition
28	Custom Color	TR Deep	Deep Square to Round Transition

4000-AF-6 MODEL NUMBER SPECIFICATION SINGLE / DOUBLE DEFLECTION LAY-IN — AIR FOIL BLADE

Model		Neck												Module
		26	28	30	32	34	36	38	40	42	44	46		
V4002-AF-6	Al. - Vertical Blade - Single Def.													
H4002-AF-6	Al. - Horizontal Blade - Single Def.	4	X	X	X	X	X	X	X	X	X	X	48 x 24	
V4002S-AF-6	Steel - Vertical Blade - Single Def.	6	X	X	X	X	X	X	X	X	X			
H4002S-AF-6	Steel - Horizontal Blade - Single Def.	8	X	X	X	X	X	X	X	X	X			
V4004-AF-6	Al. - Vertical Blade - Double Def.	10	X	X	X	X	X	X	X	X	X			
H4004-AF-6	Al. - Horizontal Blade - Double Def.	12	X	X	X	X	X	X	X	X	X			
V4004S-AF-6	Steel - Vertical Blade - Double Def.	14	X	X	X	X	X	X	X	X	X			
H4004S-AF-6	Steel - Horizontal Blade - Double Def.	16	X	X	X	X	X	X	X	X	X			
		18	X	X	X	X	X	X	X	X	X			
		20	X	X	X	X	X	X	X	X	X			
		22										X		
		4	X	X	X	X	X	X	X	X	X	48 x 48		
		6	X	X	X	X	X	X	X	X	X			
		8	X	X	X	X	X	X	X	X	X			
		10	X	X	X	X	X	X	X	X	X			
		12	X	X	X	X	X	X	X	X	X			
		14	X	X	X	X	X	X	X	X	X			
		16	X	X	X	X	X	X	X	X	X			
		18	X	X	X	X	X	X	X	X	X			
		20	X	X	X	X	X	X	X	X	X			
		22	X	X	X	X	X	X	X	X	X			
		24	X	X	X	X	X	X	X	X	X			
		26	X	X	X	X	X	X	X	X	X			
		28	X	X	X	X	X	X	X	X	X			
		30	X	X	X	X	X	X	X	X	X			
		32	X	X	X	X	X	X	X	X	X			
		34	X	X	X	X	X	X	X	X	X			
		36	X	X	X	X	X	X	X	X	X			
		38	X	X	X	X	X	X	X	X	X			
		40	X	X	X	X	X	X	X	X	X			
		42	X	X	X	X	X	X	X	X	X			
		44	X	X	X	X	X	X	X	X	X			
		46										X		

Available Finishes		Available Accessories	
Standard		OBD	Steel Opposed Blade Damper
01	White	OBDA	Aluminum Opposed Blade Damper
Optional		L9	Equalizing Grid
02	Satin Silver	TBPF	T-bar Plaster Frame
03	Black	IS	Insect Screen
24	Mill (Al. Construction Only)	TR	Square to Round Transition
28	Custom Color	TR Deep	Deep Square to Round Transition

SERIES 4000 PERFORMANCE DATA

MODELS H/V4002-AF, H/V4004-AF, H/V4002S-AF, H/V4004S-AF

Size	Nk Vel		200	300	400	500	600	700	800	1000
	Pt		.007	.015	.027	.042	.061	.083	.108	.169
06x04	Ac ft ²	CFM	24	36	48	60	72	84	96	120
	0.17	NC	-	-	-	-	-	-	11	18
	Throw		2-4-8	4-6-11	5-8-13	7-10-14	8-11-16	9-12-17	10-13-18	12-14-20
06x06	Ac ft ²	CFM	38	57	76	95	114	133	152	190
	0.25	NC	-	-	-	-	-	10	13	20
	Throw		4-8-17	7-12-21	10-15-24	12-17-26	14-20-28	15-21-30	17-23-32	19-24-34
08x08 10x06 12x05	Ac ft ²	CFM	73	110	146	183	219	256	292	365
	0.42	NC	-	-	-	-	11	13	16	22
	Throw		3-6-14	6-10-19	9-14-22	11-17-25	14-19-27	16-21-29	18-22-31	20-25-35
12x06	Ac ft ²	CFM	82	123	164	205	246	287	328	410
	0.50	NC	-	-	-	11	11	13	16	23
	Throw		3-7-15	7-11-20	10-15-24	12-18-26	15-20-29	17-22-31	19-24-33	21-26-37
10x08 14x6	Ac ft ²	CFM	93	140	186	233	279	326	372	465
	0.56	NC	-	-	-	10	12	14	17	23
	Throw		3-7-16	7-12-22	10-16-25	13-19-28	16-22-31	18-23-33	20-25-35	23-28-40
10x10 12x08 16x06	Ac ft ²	CFM	118	172	140	195	357	414	478	592
	0.69	NC	-	-	-	11	13	15	18	24
	Throw		4-8-18	8-13-25	12-18-28	15-22-32	18-25-35	20-27-37	23-28-40	26-32-45
14x08 18x06	Ac ft ²	CFM	134	201	267	335	394	468	534	661
	0.67	NC	-	-	-	11	13	15	18	25
	Throw		4-9-19	9-14-26	13-20-30	16-23-34	19-26-37	23-29-41	25-30-42	27-34-47
12x10 20x06	Ac ft ²	CFM	145	218	290	363	435	509	582	729
	0.83	NC	-	-	10	11	13	16	18	25
	Throw		4-9-19	9-15-27	13-19-31	16-24-35	19-27-38	23-29-41	26-31-44	29-35-49
16x08 22x06	Ac ft ²	CFM	153	230	306	383	459	536	612	765
	0.89	NC	-	-	10	12	14	16	19	25
	Throw		4-9-20	9-15-28	13-20-32	17-25-36	20-28-39	23-30-43	26-32-46	29-36-51
14x10 28x05	Ac ft ²	CFM	170	255	340	425	510	595	680	850
	0.85	NC	-	-	10	12	14	16	19	26
	Throw		4-10-21	10-16-29	14-21-34	18-26-38	21-29-42	25-32-45	28-34-48	31-38-54
12x12 24x06 18x08	Ac ft ²	CFM	176	263	351	439	527	615	701	878
	0.88	NC	-	-	10	12	14	16	19	26
	Throw		8-19-38	14-25-46	21-31-51	25-37-56	29-43-60	33-46-64	37-48-68	41-51-72
30x06 18x10	Ac ft ²	CFM	213	320	426	533	640	746	853	1066
	1.07	NC	-	10	11	13	15	17	20	27
	Throw		5-11-24	11-18-33	16-24-38	20-29-42	24-33-46	27-36-50	31-38-54	35-42-60

CONTINUED

SERIES 4000 PERFORMANCE DATA

MODELS H/V4002-AF, H/V4004-AF, H/V4002S-AF, H/V4004S-AF

Size		Nk Vel	200	300	400	500	600	700	800	1000
		Pt	.007	.015	.027	.042	.061	.083	.108	.169
14x14	Ac ft ²	CFM	244	366	488	610	732	853	975	1219
	1.22	NC	-	10	12	13	15	18	21	27
	Throw			5-12-25	12-19-35	17-25-41	21-31-45	25-35-50	29-38-54	33-41-57
36x06 18x12	Ac ft ²	CFM	257	366	514	643	771	900	1028	1285
	1.29	NC	10	11	12	14	16	18	21	28
	Throw			5-12-26	12-19-36	17-26-42	22-32-47	26-36-51	30-39-55	34-42-59
22x10	Ac ft ²	CFM	273	410	546	683	819	956	1092	1385
	1.37	NC	10	11	12	14	16	18	21	28
	Throw			6-12-27	12-20-37	18-27-43	22-33-48	27-37-53	31-40-57	35-43-61
30x08 24x10	Ac ft ²	CFM	295	442	589	736	884	1031	1178	1472
	1.48	NC	10	11	13	14	16	19	21	28
	Throw			6-13-28	13-21-39	18-28-45	23-35-50	28-39-55	32-42-59	36-45-63
16x16	Ac ft ²	CFM	323	485	646	808	969	1131	1292	1615
	1.62	NC	11	12	13	15	17	19	22	28
	Throw			6-14-29	14-22-40	19-29-47	24-36-52	29-40-57	34-44-62	38-47-66

PERFORMANCE NOTES FOR SERIES 4000

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Air volume is cubic feet per minute

Nk Vel Neck Velocity is the airstream velocity in the duct just before it reaches the supply outlet; measured in feet per minute

fpm Velocity of air stream in Feet per Minute

Throw Throw distance in feet are for terminal velocities of 150 fpm, 100 fpm and 50 fpm respectively

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10⁻¹² watts minus a 10dB room attenuation in all octave bands

Pt Total pressures in inches of water

Ac Actual Core Free Area in square feet

SERIES 4000 PERFORMANCE DATA

MODELS H/V4002-AF, H/V4004-AF, H/V4002S-AF, H/V4004S-AF

Size	Nk Vel		200	300	400	500	600	700	800	1000
	Pt		.007	.015	.027	.042	.061	.083	.108	.169
24x12	Ac ft ²	CFM	364	546	727	909	1090	1272	1453	1816
36x08	1.82	NC	11	12	13	15	17	20	22	29
48x06	Throw		6-13-30	14-23-43	20-31-50	26-38-55	31-43-61	36-46-66	40-50-70	45-55-78
18x18	Ac ft ²	CFM	414	621	87	1034	1240	1447	1653	2066
	2.07	NC	12	13	14	16	18	20	23	29
	Throw		7-15-33	15-25-46	22-33-53	27-41-59	33-46-65	38-49-70	43-53-75	48-59-84
30x12	Ac ft ²	CFM	456	685	914	1142	1371	1600	1829	2386
	2.28	NC	12	13	14	16	18	20	23	30
	Throw		7-16-34	16-26-48	23-34-56	29-43-62	34-48-68	40-52-74	45-56-79	51-62-88
20x20	Ac ft ²	CFM	515	772	1030	1287	1545	1802	2059	2574
	2.59	NC	13	14	15	17	19	21	24	30
	Throw		8-17-37	17-27-51	24-37-59	30-46-66	37-51-72	43-55-78	48-59-83	54-66-93
24x18	Ac ft ²	CFM	550	826	1101	1377	1653	1928	2204	2755
	2.75	NC	13	14	15	17	19	21	24	31
	Throw		8-18-38	18-28-53	25-38-61	32-47-68	38-53-75	44-57-81	50-61-86	56-68-96
22x22	Ac ft ²	CFM	626	940	1254	1567	1881	2195	2509	3136
	3.13	NC	13	14	16	17	19	22	25	31
	Throw		8-19-40	19-30-56	27-40-65	34-50-73	40-56-80	47-61-86	53-65-92	59-73-103
24x24	Ac ft ²	CFM	750	1125	1501	1877	2252	2628	3003	3754
	3.75	NC	14	15	16	18	20	23	25	32
	Throw		9-21-44	21-33-62	29-44-71	37-55-80	44-62-87	52-67-94	58-71-101	65-80-113
30x24	Ac ft ²	CFM	946	1297	1848	1999	2350	2701	3052	3754
	4.73	NC	15	16	17	19	21	23	26	33
	Throw		10-23-50	19-34-66	29-43-75	35-52-82	41-62-89	47-68-96	53-72-102	65-80-113
28x28	Ac ft ²	CFM	1030	1546	2061	2577	3093	3608	4124	5155
	5.15	NC	16	17	18	19	21	24	27	33
	Throw		11-24-52	24-39-72	34-52-83	43-65-93	52-72-102	60-78-110	68-83-118	76-93-132
36x24	Ac ft ²	CFM	1140	1709	2278	2846	3415	3984	4553	5690
	5.70	NC	16	17	18	20	22	24	27	34
	Throw		11-25-54	25-41-76	36-54-88	45-68-98	54-76-107	63-82-116	72-88-124	80-98-139
30x30	Ac ft ²	CFM	1190	1784	2378	2971	3565	4159	4753	5940
	5.95	NC	16	17	18	20	22	24	27	34
	Throw		12-26-56	26-42-78	37-56-90	46-69-100	56-78-110	65-84-119	73-90-127	82-100-142
32x30	Ac ft ²	CFM	1270	1905	2540	3175	3810	4445	5080	6350
	6.35	NC	17	18	19	21	23	25	28	34
	Throw		12-27-57	27-43-80	38-57-93	48-72-104	57-80-113	67-87-123	76-93-131	85-104-147

CONTINUED

SERIES 4000 PERFORMANCE DATA

MODELS H/V4002-AF, H/V4004-AF, H/V4002S-AF, H/V4004S-AF

Size	Nk Vel		200	300	400	500	600	700	800	1000
	Pt		.007	.015	.027	.042	.061	.083	.108	.169
36x28 42x24	Ac ft ² 6.65	CFM	1330	1996	2663	3329	3995	4661	5328	6660
		NC	17	18	19	21	23	25	28	34
	Throw		12-27-59	27-44-82	39-59-95	49-73-106	59-82-116	69-89-126	77-95-134	87-106-150
36x30	Ac ft ² 7.15	CFM	1430	2146	2863	3579	4295	5011	5728	7160
		NC	17	18	19	21	23	25	28	35
	Throw		13-28-61	28-46-85	41-61-98	51-76-110	61-85-120	71-92-130	80-98-139	90-110-156
36x32 48x24	Ac ft ² 7.63	CFM	1525	2288	3051	3814	4578	5341	6104	7630
		NC	17	18	19	21	23	26	28	35
	Throw		13-29-63	29-47-88	42-63-102	52-79-114	63-88-124	73-95-134	83-102-144	93-114-161
34x34	Ac ft ² 8.65	CFM	1730	2593	3455	4318	5180	6043	6905	8630
		NC	18	19	20	22	24	26	29	35
	Throw		14-31-67	31-50-94	45-67-108	56-84-121	67-94-132	78-101-143	88-108-153	99-121-171
36x36	Ac ft ² 9.65	CFM	1930	2894	3858	4821	5785	6749	7713	9640
		NC	18	19	20	22	24	27	29	36
	Throw		15-33-71	33-53-99	47-71-114	59-88-128	71-99-140	83-107-151	93-114-161	104-128-181
38x38	Ac ft ² 9.65	CFM	1930	2894	3858	4821	5785	6749	7713	9640
		NC	18	19	20	22	24	27	29	36
	Throw		15-33-71	33-53-99	47-71-114	59-88-128	71-99-140	83-107-151	93-114-161	104-128-181

PERFORMANCE NOTES FOR SERIES 4000

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DEFINITION OF UNITS

CFM Air volume is cubic feet per minute

Nk Vel Neck Velocity is the airstream velocity in the duct just before it reaches the supply outlet; measured in feet per minute

fpm Velocity of air stream in Feet per Minute

Throw Throw distance in feet are for terminal velocities of 150 fpm, 100 fpm and 50 fpm respectively

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10⁻¹² watts minus a 10dB room attenuation in all octave bands

Pt Total pressures in inches of water

Ac Actual Core Free Area in square feet

SERIES 4000 PERFORMANCE DATA

MODELS H/V4002-AF, H/V4004-AF, H/V4002S-AF, H/V4004S-AF

Size	Nk Vel	100	200	300	400	500	600	700	800	
		Pt	.002	.007	.015	.027	.042	.061	.083	.108
42x36	Ac ft ² 10.10	CFM	1010	2020	3030	4040	5050	6060	7070	8080
		NC	15	18	19	21	22	24	27	29
	Throw	4-8-34	15-34-72	34-54-101	48-72-117	60-91-131	72-101-143	85-109-155	95-117-165	
40x40	Ac ft ² 10.70	CFM	1070	2140	3210	4280	5350	6420	7490	8560
		NC	15	19	20	21	23	25	27	30
	Throw	4-9-35	15-35-75	35-56-104	50-75-120	62-93-134	75-104-147	87-113-159	98-120-170	
48x36	Ac ft ² 11.60	CFM	1160	2316	3473	4629	5785	6941	8098	9254
		NC	15	19	20	21	23	25	27	30
	Throw	4-9-36	16-36-78	36-58-108	52-78-125	65-97-140	78-108-153	90-117-165	102-125-177	
42x42	Ac ft ² 11.80	CFM	1180	2363	3545	4728	5910	7093	8275	9458
		NC	15	19	20	21	23	25	27	30
	Throw	4-9-37	16-37-78	37-59-109	52-78-126	65-98-141	78-109-155	91-118-167	103-126-179	
44x44	Ac ft ² 13.00	CFM	1300	2599	3898	5196	6495	7794	9093	10391
		NC	16	20	21	22	24	26	28	31
	Throw	4-10-38	17-38-82	38-62-115	55-82-133	68-103-148	82-115-162	96-124-175	108-133-187	
48x42	Ac ft ² 13.60	CFM	1360	2713	4065	5418	6770	8123	9475	10828
		NC	16	20	21	22	24	26	28	31
	Throw	4-10-40	17-39-84	39-63-117	56-84-135	70-105-151	84-117-166	98-127-179	110-135-191	
46x46	Ac ft ² 14.20	CFM	1420	2843	4265	5688	7110	8533	9955	11378
		NC	16	20	21	22	24	26	28	31
	Throw	4-10-40	18-40-86	40-64-120	57-86-139	72-107-155	86-120-170	100-130-183	113-139-196	
48x48	Ac ft ² 15.50	CFM	1550	3101	4653	6204	7755	9306	10858	12409
		NC	17	20	21	22	24	26	29	32
	Throw	5-10-42	19-42-90	42-67-125	60-90-145	75-112-162	90-125-177	105-135-192	118-145-205	

PERFORMANCE NOTES FOR SERIES 4000

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Air volume is cubic feet per minute

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fpm Velocity of air stream in Feet per Minute

Throw Throw distance in feet are for terminal velocities of 150 fpm, 100 fpm and 50 fpm respectively

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10⁻¹² watts minus a 10dB room attenuation in all octave bands

Pt Total pressures in inches of water

Ac Actual Core Free Area in square feet