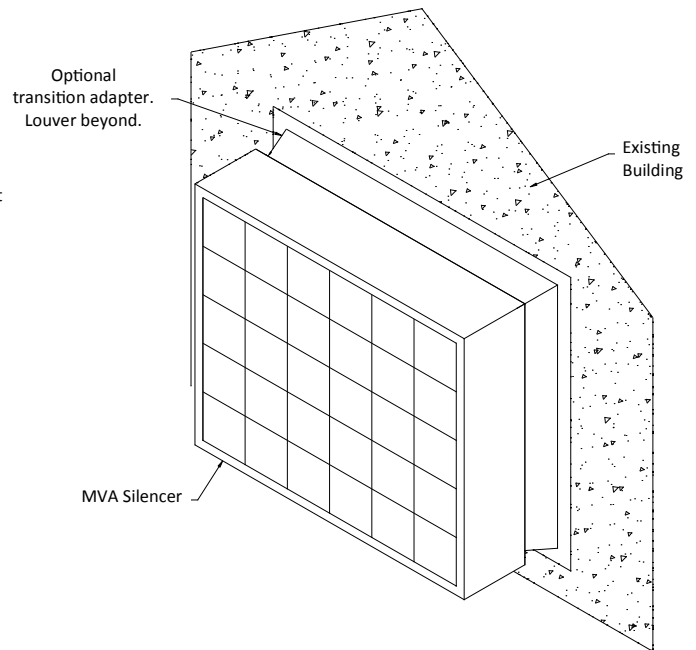


SECTION VIEW

Stationary Steel Louver:
40° Drainable Blade, 6" depth

MVA Silencer
High Efficiency Oxel Spiral Silencer



ISOMETRIC VIEW

SPECIFICATIONS

LOUVER:

- FRAME:** 18ga. galvanized steel channel
- BLADES:** 18ga. galvanized steel
- FINISH:** Mill finish standard
- SCREEN:** 1/2" x 1/2" x 19ga. Galvanized steel

SIZES

- MINIMUM:** 12" wide x 12" high
- MAXIMUM:** 72" wide x 96" high
- Multiple sections - size unlimited.

OPTIONS

- MATERIAL:** Aluminum, Stainless steel & heavy gauge
- FINISH:** Many finishes available, consult factory.

MVA SILENCER:

- OUTER CASING:** 18ga. CR steel - fully welded
- FINISH:** Powder coated - after fabrication
- ATTENUATION MATERIAL:** Fiberglass based acoustical insulation bonded to 26 gauge (0.016" thick) acoustical barrier. All exposed fiberglass face to be bonded with a fiberglass scrim cloth per Oxel 919 treatment to a minimum strength per square inch of 80 lbs. warp and 70 lbs. filler, packed under a minimum of 5% compression. Fiberglass based insulation is vermin and moisture proof with a flame-spread maximum of 25.
- MAX DIFFERENTIAL PRESSURE:** 10 in. wg

OPTIONS

- MATERIAL:** Aluminum, Stainless steel & heavy gauge



Performance Data Combination Louver + Silencer

Attenuation Data

Model	Face Velocity fpm	Insertion Loss (db)							
		Octave Band Center Frequency (Hz)							
		1 63	2 125	3 250	4 500	5 1K	6 2K	7 4K	8 8K
1420-180	-1000	18	26	31	37	45	58	43	42
	0	18	26	31	37	45	58	43	42
	1000	18	26	31	37	45	58	43	42
1420-DUAL-180	-1000	28	38	52	57	59	59	59	58
	0	28	38	52	57	59	59	59	58
	1000	28	38	52	57	59	59	59	58

BASIS OF PERFORMANCE DATA:

Louver - Sized at 96" high x 48" wide.

Silencers - Individual module is 16" high x 16" wide. System assembled in array of 3 x 6.

Aerodynamic Performance Data

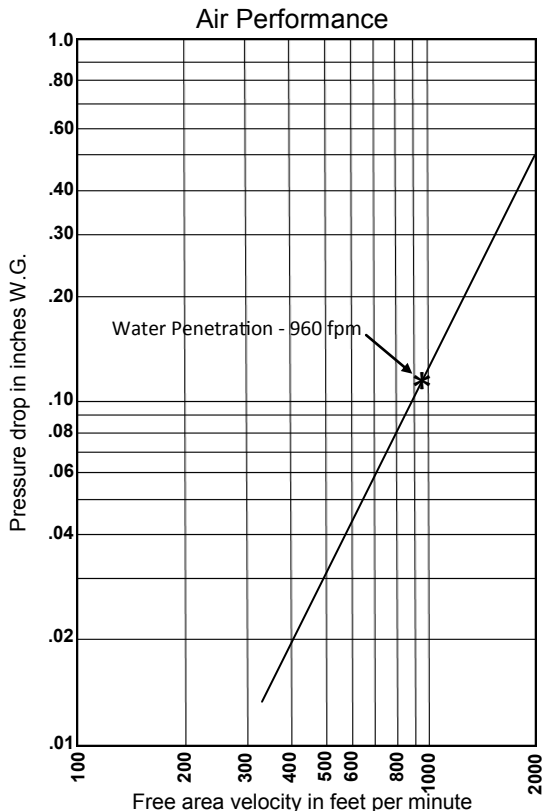
Louver + 1420-180	Louver Free Area Velocity [fpm]	300	400	500	600	700	800	900	1,000*
	Pressure Drop [In.wg.]**		0.02	0.03	0.04	0.06	0.08	0.10	0.13

Louver + 1420-DUAL- 180	Louver Free Area Velocity [fpm]	300	400	500	600	700	800	900	1,000*
	Pressure Drop [In.wg.]**		0.02	0.04	0.06	0.09	0.12	0.16	0.20

* Free area velocity has exceeded water penetration threshold. See Air Performance Chart below.

** All data based on Louver Free Area Velocity—Silencer static pressure loss calculated at equivalent louver face area.

Louver Performance Data



Free Area Chart—Sq. Ft.

96	3.83	6.13	8.43	10.73	13.03	15.33	17.63	19.93	22.23	24.53	26.83
90	3.59	5.74	7.9	10.05	12.2	14.36	16.51	18.66	20.82	22.97	25.13
84	3.36	5.37	7.38	9.39	11.41	13.42	15.43	17.45	19.46	21.47	23.49
78	3.12	4.99	6.87	8.74	10.61	12.48	14.36	16.23	18.1	19.97	21.84
72	2.89	4.62	6.35	8.08	9.81	11.55	13.28	15.01	16.74	18.47	20.2
66	2.63	4.22	5.8	7.38	8.96	10.54	12.12	13.7	15.28	16.86	18.44
60	2.37	3.78	5.2	6.62	8.04	9.46	10.88	12.3	13.72	15.14	16.56
54	2.1	3.35	4.61	5.87	7.13	8.39	9.64	10.9	12.16	13.42	14.67
48	1.83	2.92	4.02	5.12	6.21	7.31	8.41	9.5	10.6	11.69	12.79
42	1.56	2.49	3.43	4.36	5.3	6.23	7.17	8.1	9.04	9.97	10.91
36	1.29	2.06	2.84	3.61	4.38	5.16	5.93	6.7	7.48	8.25	9.02
30	1.02	1.63	2.24	2.86	3.47	4.08	4.69	5.3	5.92	6.53	7.14
24	0.77	1.24	1.71	2.18	2.64	3.11	3.57	4.04	4.51	4.97	5.44
18	0.54	0.87	1.19	1.52	1.84	2.17	2.5	2.82	3.15	3.47	3.8
12	0.31	0.49	0.68	0.86	1.05	1.23	1.42	1.6	1.79	1.97	2.16
	12	18	24	30	36	42	48	54	60	66	72

NOTE: Louver will be supplied 1/4 inch smaller than width and height dimension shown.

Performance Notes:

Test units size 48" x 48"
 Graphs are corrected to standard air.
 Density .075 lbs. per cubic feet.
 Ratings do not include the effects of bird screen.

IMI certifies that the louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings only.

