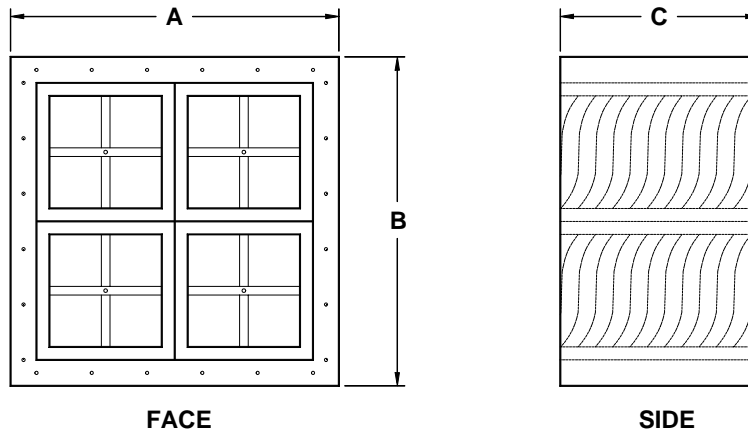




MVA 1420-20-IL

Inline Spiral Silencer



MVA 1420-4-IL SHOWN; REFER TO DIMENSIONS TABLE FOR DIMENSIONS AND NUMBER OF MODULES

Dimensions					
Module Grid	A = Width	B = Height	C = Length	Face Flow I.D.	Net Weight
4 X 5	70 in.	86 in.	23 in.	64 in. X 80 in.	825 lbs.

DYNAMIC INSERTION LOSS

Octave Bands	1	2	3	4	5	6	7	8
Center Freq. Hz	63	125	250	500	1000	2000	4000	8000
Face Velocity	Dynamic Insertion Loss in Decibels							
-4000	18	22	26	34	35	40	55	57
-3000	18	22	26	33	34	40	54	56
-2000	17	21	25	33	34	40	54	56
-1000	17	21	25	33	34	39	54	56
+1000	17	21	25	33	34	39	53	56
+2000	17	21	24	33	34	39	53	55
+3000	17	21	24	33	33	39	53	55
+4000	16	21	24	33	33	39	53	55

AERODYNAMIC PERFORMANCE DATA

Static Pressure Loss in Inches of H ₂ O										
	.05	.10	.15	.20	.25	.30	.40	.50	.75	1.00
Airflow in CFM	14000	25400	40400	49400	61000	72400	82000	94000	107500	112800

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SELF GENERATED SOUND RATINGS

Forward Flow								
Octave Bands	1	2	3	4	5	6	7	8
Center Freq. Hz	63	125	250	500	1000	2000	4000	8000
Face Velocity	Generated Sound in Sound Power Level (Lw) (dB re 10 ⁻¹² Watts)							
1000	(53)	(40)	(30)	(22)	(18)	(19)	(24)	(28)
2000	(54)	(41)	41	42	42	41	(25)	(28)
3000	58	44	42	43	44	42	34	40

Reverse Flow								
Octave Bands	1	2	3	4	5	6	7	8
Center Freq. Hz	63	125	250	500	1000	2000	4000	8000
Face Velocity	Generated Sound in Sound Power Level (Lw) (dB re 10 ⁻¹² Watts)							
1000	(53)	(40)	(30)	(22)	(18)	(19)	(24)	(28)
2000	(54)	(41)	41	42	42	41	(25)	(28)
3000	58	44	42	43	44	42	34	40

NOTE: Sound power levels in parentheses have reached ambient levels in the test facilities test room or are determined by instrument limitations. Actual levels are less than or equal to levels indicated.

The above insertion loss values and self generated sound levels are extrapolated from actual test data from an independent testing facility per ASTM E477 "Standard Methods of Testing Duct Liner Materials and Prefabricated Silencers for Acoustical and Airflow Performance". Test reports available upon request.