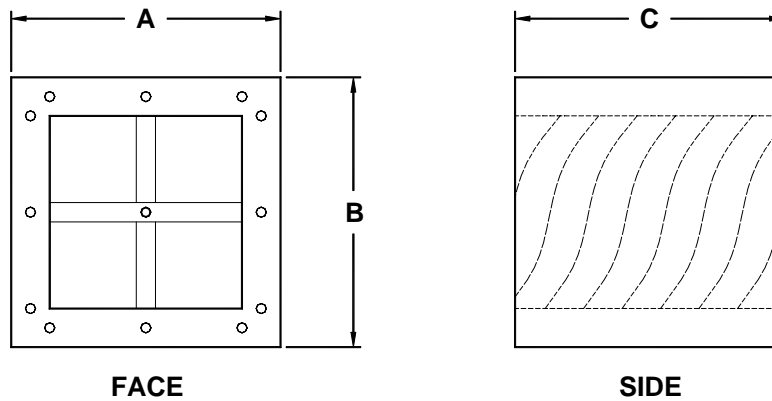




VA 77-1S-IL

Inline Spiral Silencer



Dimensions				
A = Width	B = Height	C = Length	Face Flow I.D.	Net Weight
11 in.	11 in.	11 in.	7 in. X 7 in.	12 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	25	31	33	35	44	54	57
-3000	17	24	30	33	35	44	54	57
-2000	17	24	30	31	34	43	54	57
-1000	17	24	30	31	34	42	54	57
+1000	17	23	30	31	34	42	54	57
+2000	16	23	30	31	34	42	54	57
+3000	16	23	30	31	34	42	54	57
+4000	16	23	29	31	33	42	54	57

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	105	185	300	365	390	575	615	700	800	840

Tel: (909) 796-6200



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VA 77-1S-IL

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.