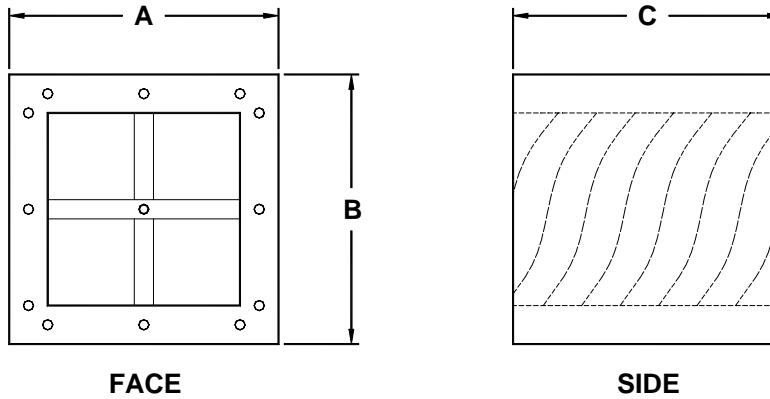




VA 1826-1S-IL

## Inline Spiral Silencer



Dimensions				
A = Width	B = Height	C = Length	Face Flow I.D.	Net Weight
22 in.	22 in.	26 in.	18 in. X 18 in.	79 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	17	22	23	28	29	39	54	56
-3000	16	22	23	28	29	38	54	55
-2000	16	21	22	28	28	38	53	55
-1000	16	21	22	27	28	38	53	55
+1000	16	21	22	27	28	38	53	54
+2000	16	21	22	27	28	37	53	54
+3000	16	21	22	27	28	37	52	54
+4000	15	21	20	27	28	37	52	53

### AERODYNAMIC PERFORMANCE DATA

Static Pressure Loss in Inches of H <sub>2</sub> O										
	.05	.10	.15	.20	.25	.30	.40	.50	.75	1.00
Airflow in CFM	1125	2025	3225	3925	4875	5775	6550	7500	8575	9000

Tel: (909) 796-6200



Fax: (909) 796-6223



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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 <sup>-12</sup> 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 <sup>-12</sup> 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.