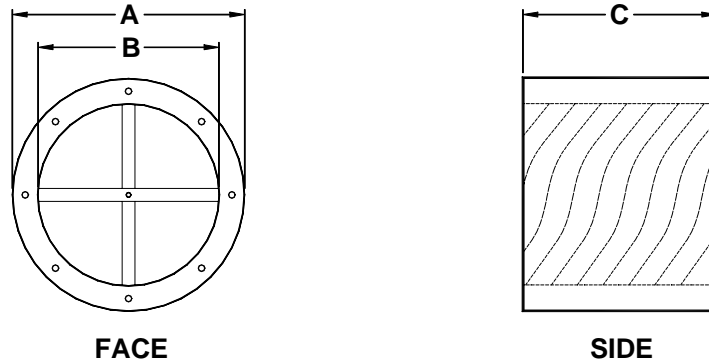




**1818 FGR-IL**

## Inline Spiral Silencer



Dimensions				
A = Dia. O.D.	B = Dia. I.D.	C = Length	Face Flow I.D.	Net Weight
22 in.	18 in.	19 in.	18 in.	41 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	14	16	18	24	35	33	48	50
-3000	13	16	18	24	34	33	47	50
-2000	13	15	18	24	34	32	47	49
-1000	13	15	17	23	33	31	47	49
+1000	13	15	17	23	33	31	47	49
+2000	13	15	17	23	33	31	47	49
+3000	13	14	17	23	33	32	47	48
+4000	13	14	17	22	33	32	46	48

### 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	885	2280	2835	3280	3675	4025	4620	5200	6365	7355

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**1818 FGR-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 <sup>-12</sup> Watts)							
1000	(52)	(41)	(31)	(22)	(18)	(19)	(22)	(25)
2000	(53)	(42)	(41)	40	40	41	(25)	(27)
3000	54	44	43	42	42	43	33	35

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	(52)	(41)	(31)	(22)	(18)	(19)	(22)	(25)
2000	(53)	(42)	(41)	39	40	40	(25)	(27)
3000	53	44	42	42	42	43	33	35

**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.