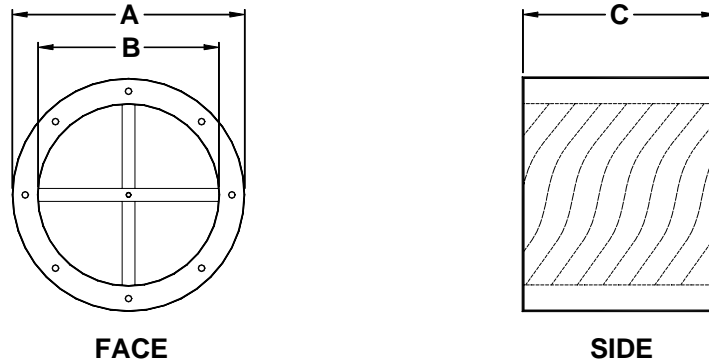




2020 FGR-IL

Inline Spiral Silencer



Dimensions				
A = Dia. O.D.	B = Dia. I.D.	C = Length	Face Flow I.D.	Net Weight
24 in.	20 in.	21 in.	20 in.	51 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	15	18	19	30	30	41	49	60
-3000	15	18	19	30	30	40	49	60
-2000	15	17	19	30	30	40	48	60
-1000	14	16	18	30	30	40	48	60
+1000	14	16	18	29	29	39	48	59
+2000	14	16	18	29	29	39	48	59
+3000	14	16	17	29	29	39	47	59
+4000	14	16	17	28	29	39	47	59

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	1005	2595	3220	3725	4170	4565	5240	5900	7220	8350

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2020 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 ⁻¹² 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 ⁻¹² 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.