

Standard Attenuator - Model **SR-5**

Dynamic Insertion Loss (dB)
Octave Band/Center Frequency (Hz)

Model	Flow	Velocity fpm	Static Press	1 63	2 125	3 250	4 500	5 1K	6 2K	7 4K	8 8K
SR-5-36	Reverse Flow	-2000	0.26	5	9	12	20	29	20	11	9
		-1500	0.15	5	8	11	19	29	20	12	9
	36" Forward Flow	-1000	0.06	4	8	11	19	29	21	12	9
		0		7	17	28	44	57	51	31	18
		1000	0.06	5	7	10	18	28	22	15	11
	1500	0.15	4	7	10	18	28	22	15	11	
	2000	0.26	7	15	27	41	55	50	32	21	
SR-5-48	Reverse Flow	-2000	0.28	9	16	24	42	43	39	23	13
		-1500	0.16	8	15	23	42	48	42	24	14
	48" Forward Flow	-1000	0.07	7	15	22	42	51	45	25	14
		0		7	14	21	40	56	48	28	17
		1000	0.07	5	8	12	22	37	29	18	12
	1500	0.16	4	8	12	22	37	29	19	13	
	2000	0.28	6	11	18	36	53	46	30	20	
SR-5-60	Reverse Flow	-2000	0.31	7	13	18	32	42	30	18	12
		-1500	0.17	6	12	17	32	43	31	18	11
	60" Forward Flow	-1000	0.08	6	11	17	31	44	33	19	11
		0		5	10	16	30	46	35	22	13
		1000	0.08	6	10	15	28	46	37	22	15
	1500	0.17	5	10	15	27	46	36	23	15	
	2000	0.31	5	9	14	26	45	35	23	16	
SR-5-72	Reverse Flow	-2000	0.31	8	14	21	37	42	34	20	12
		-1500	0.17	7	13	20	37	45	36	21	12
	72" Forward Flow	-1000	0.08	6	13	20	36	47	39	22	13
		0	0.08	6	12	18	34	51	41	25	15
		1000	0.08	6	11	17	33	51	44	25	16
	1500	0.17	6	11	17	32	50	42	26	17	
	2000	0.31	5	10	16	31	49	40	26	18	
SR-5-84	Reverse Flow	-2000	0.35	9	16	24	42	43	39	23	13
		-1500	0.2	8	15	23	42	48	42	24	14
	84" Forward Flow	-1000	0.09	7	15	22	42	51	45	25	14
		0		7	14	21	40	56	48	28	17
		1000	0.09	7	12	19	38	57	51	29	19
	1500	0.2	7	12	19	37	55	48	29	19	
	2000	0.35	6	11	18	36	53	46	30	20	

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				Dynamic Insertion Loss (dB) Octave Band/Center Frequency (Hz)							
Model	Flow	Velocity fpm	Static Press	1 63	2 125	3 250	4 500	5 1K	6 2K	7 4K	8 8K
SR-5-96	Reverse Flow	-2000	0.39	9	17	27	44	49	44	27	15
		-1500	0.22	8	16	26	44	52	45	27	16
		-1000	0.1	7	16	25	43	54	47	27	16
		0		7	15	24	42	56	49	29	17
	96" Forward Flow	1000	0.1	7	14	23	39	57	51	29	19
		1500	0.22	7	14	23	39	55	49	30	19
		2000	0.39	6	13	22	38	54	47	31	20
SR-5-108	Reverse Flow	-2000	0.43	10	19	30	46	55	49	31	18
		-1500	0.24	9	18	29	46	56	49	31	18
		-1000	0.11	8	18	28	45	57	50	30	18
		0		7	17	28	44	57	51	31	18
	108" Forward Flow	1000	0.11	7	16	27	42	57	52	31	20
		1500	0.24	7	16	27	42	56	51	31	20
		2000	0.43	7	15	27	41	55	50	32	21
SR-5-120	Reverse Flow	-2000	0.46	10	20	32	51	61	54	35	21
		-1500	0.26	9	20	32	49	60	53	35	21
		-1000	0.12	9	19	31	47	60	54	35	20
		0		8	19	31	46	58	53	35	19
	120" Forward Flow	1000	0.12	8	18	31	46	57	53	36	21
		1500	0.26	8	18	31	46	57	54	36	21
		2000	0.46	7	17	31	44	57	55	37	21

Forward Flow: Characteristic of supply or discharge fan systems

Reverse Flow: Typical of return or intake fan systems

Calculating Actual Pressure Drop:

- Determine Actual Velocity (FPM) = CFM / Area, ft² = CFM / (W x H / 144)
where W and H are Silencer Width and Height, inches
- Static Pressure Drop = (Actual Velocity/1500)² x Catalog Static Pressure Drop @ 1500 FPM



Anemostat FLO performance data software provides silencer performance at actual conditions and can be downloaded from:

https://www.anemostat-hvac.com/Tech_Center/software.asp

Model SR Silencers

Self-noise Power Levels

Self-Noise Power Levels, dB re 10⁻¹² Watts Octave Band/Center Frequency (Hz)									
Model	Velocity fpm	1 63	2 125	3 250	4 500	5 1K	6 2K	7 4K	8 8K
SR-2	1000	53	44	38	37	41	44	38	31
	1500	58	53	47	46	47	54	53	48
	2000	71	62	55	54	52	59	63	59
SR-3	1000	54	46	37	36	39	39	32	29
	1500	58	53	46	44	45	49	47	43
	2000	70	62	56	54	52	59	62	58
SR-4	1000	55	48	37	35	37	35	27	27
	1500	61	57	52	49	48	55	55	50
	2000	70	63	58	55	53	59	62	58
SR-5	1000	54	45	37	36	36	32	24	27
	1500	60	56	52	49	48	55	53	47
	2000	68	62	57	55	52	59	60	55
SR-6	1000	53	42	37	35	35	29	22	27
	2000	60	56	52	49	48	55	51	44
	2500	67	62	57	55	52	59	59	53

Area Adjustment Factors: The generated self-noise power levels shown above in the table are based on silencers with a Face Area of 4 sq. feet. For silencers with a different face area, add the adjustment factor as shown below based on the face area of the silencer:

Silencer Face Area, ft ²	.50	1	2	4	6	8	16	32	64	128
Power Level Adjustment Factor, dB	-9	-6	-3	0	2	3	6	9	12	15