

## Standard Attenuator - Model **SR-3**

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
<b>SR-3-36</b>	Reverse Flow	-1500	0.3	5	10	15	24	34	27	16	11
		-1000	0.13	5	9	14	23	34	27	17	12
	36" Forward Flow	-500	0.03	4	9	13	23	34	28	17	12
		0		4	8	13	23	34	28	19	12
		500	0.03	4	8	13	22	33	28	19	13
		1000	0.13	5	8	12	22	33	29	20	13
1500	0.3	4	8	12	22	32	29	20	13		
<b>SR-3-48</b>	Reverse Flow	-1500	0.34	6	12	19	29	40	31	21	13
		-1000	0.15	6	12	18	29	41	33	21	13
	48" Forward Flow	-500	0.04	5	11	17	29	41	35	22	14
		0		5	11	17	28	41	36	24	15
		500	0.04	5	10	16	27	41	36	24	15
		1000	0.15	5	9	15	27	41	36	25	16
1500	0.34	5	9	15	27	40	35	25	16		
<b>SR-3-60</b>	Reverse Flow	-1500	0.38	7	16	24	35	46	36	25	15
		-1000	0.17	7	15	23	35	49	39	26	16
	60" Forward Flow	-500	0.04	6	14	21	35	49	43	27	16
		0		6	13	20	34	49	44	30	18
		500	0.04	6	13	20	33	49	44	30	19
		1000	0.17	6	12	19	33	49	44	30	19
1500	0.38	6	12	18	32	48	42	30	20		
<b>SR-3-72</b>	Reverse Flow	-1500	0.45	8	18	28	40	46	39	29	17
		-1000	0.2	8	17	26	41	50	44	30	18
	72" Forward Flow	-500	0.05	7	16	25	41	52	50	32	18
		0		7	15	24	40	53	51	35	20
		500	0.05	7	14	23	39	53	52	35	21
		1000	0.2	7	13	22	38	53	51	35	22
1500	0.45	6	13	21	36	51	46	35	23		
<b>SR-3-84</b>	Reverse Flow	-1500	0.52	10	21	32	45	46	43	33	19
		-1000	0.23	9	20	30	47	51	49	35	20
	84" Forward Flow	-500	0.06	8	18	29	47	56	57	37	21
		0		8	18	27	46	57	60	40	23
		500	0.06	8	16	26	45	58	61	40	24
		1000	0.23	8	15	25	44	57	59	40	25
1500	0.52	7	15	23	42	55	51	40	26		

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Model	Flow	Velocity fpm	Static Press	1 63	2 125	3 250	4 500	5 1K	6 2K	7 4K	8 8K
<b>SR-3-96</b>  96"	Reverse Flow	-1500	0.62	10	22	35	47	51	48	36	22
		-1000	0.28	9	21	34	48	54	52	37	23
	Forward Flow	-500	0.07	8	20	32	47	57	57	38	23
		0		8	20	31	47	58	59	40	24
		500	0.07	8	19	31	46	58	61	40	25
		1000	0.28	8	18	30	44	58	59	40	26
		1500	0.62	7	17	28	43	56	54	40	27
<b>SR-3-108</b>  108"	Reverse Flow	-1500	0.71	11	24	39	49	56	54	39	26
		-1000	0.32	10	23	38	49	58	56	39	26
	Forward Flow	-500	0.08	9	23	37	48	59	59	40	25
		0		9	23	36	48	59	60	40	25
		500	0.08	9	22	36	47	59	61	40	26
		1000	0.32	9	21	35	46	59	61	41	28
		1500	0.71	8	20	34	45	57	58	41	28
<b>SR-3-120</b>  120"	Reverse Flow	-1500	0.79	11	25	43	53	61	60	42	29
		-1000	0.35	11	25	42	51	61	60	42	29
	Forward Flow	-500	0.09	10	25	41	50	60	60	41	27
		0		10	25	41	49	61	61	41	27
		500	0.09	9	25	40	48	60	61	41	27
		1000	0.35	9	23	40	48	61	61	41	29
		1500	0.79	9	23	39	48	59	61	41	29

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, ft<sup>2</sup> = CFM / (W x H / 144)  
where W and H are Silencer Width and Height, inches
- Static Pressure Drop = (Actual Velocity/1500)<sup>2</sup> 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](https://www.anemostat-hvac.com/Tech_Center/software.asp)

## Model SR Silencers

### Self-noise Power Levels

Self-Noise Power Levels, <b>dB re 10<sup>-12</sup> Watts</b> 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 <sup>2</sup>	.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