

Elbow Attenuator - Model **SRE-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
SRE-5-36	Reverse	-1500	0.28	8	11	15	18	20	19	8	13
	Flow	-1000	0.13	7	11	14	17	20	18	17	13
		0		7	11	14	17	20	18	17	13
	Forward	1000	0.13	7	10	14	17	20	20	17	13
	Flow	1500	0.28	6	10	14	16	20	20	18	13
SRE-5-48	Reverse	-1500	0.3	9	13	17	23	24	23	21	14
	Flow	-1000	0.14	8	12	16	22	24	23	21	14
		0		8	12	16	22	24	23	21	14
	Forward	1000	0.14	8	11	17	22	25	24	22	15
	Flow	1500	0.3	7	11	17	22	25	24	22	16
SRE-5-60	Reverse	-1500	0.34	10	13	19	27	27	26	23	16
	Flow	-1000	0.15	9	13	18	26	27	26	23	16
		-500	0.04	9	13	18	26	27	26	23	16
		0		9	13	18	26	27	26	23	16
	Forward	500	0.04	9	13	18	26	27	26	23	16
SRE-5-72	Flow	1000	0.15	8	12	18	26	28	27	24	17
	Flow	1500	0.34	8	11	17	25	28	27	24	17
	Reverse	-1500	0.36	11	13	21	29	30	29	24	19
	Flow	-1000	0.16	11	14	20	30	30	29	24	19
		0		9	14	19	29	30	29	25	19
SRE-5-84	Forward	1000	0.16	9	13	19	29	30	30	25	21
	Flow	1500	0.36	9	13	19	28	30	29	26	21
	Reverse	-1500	0.38	12	16	25	32	32	31	25	20
	Flow	-1000	0.17	12	17	25	33	33	32	26	21
		0		10	17	24	32	33	32	27	20
84"	Forward	1000	0.17	10	16	24	32	33	33	28	21
	Flow	1500	0.38	10	16	23	32	33	32	28	22

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

Rectangular Elbow Attenuators - Model SRE

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
SRE - 2	750	55	41	37	36	43	45	39	33
	1000	60	50	42	38	45	53	50	44
	1500	71	62	55	50	50	59	63	59
SRE - 3	750	54	40	36	36	42	42	35	31
	1500	60	54	48	44	47	55	53	47
	2000	71	62	56	53	54	60	63	59
SRE - 4	750	54	40	35	36	42	39	32	29
	1500	60	58	55	50	50	57	56	50
	2000	72	62	57	56	58	62	64	59
SRE - 5	750	56	40	34	35	42	40	32	28
	1500	64	57	53	49	50	57	57	51
	2000	73	63	58	55	56	62	64	60
SRE - 6	1000	59	40	33	35	42	41	32	27
	2000	68	57	52	49	51	58	59	53
	2500	75	64	59	55	55	62	65	61

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