

## Elbow Attenuator - Model **SRE-6**

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>SRE-6-36</b>	Reverse	-2000	0.24	9	10	13	16	18	20	18	12
	Flow	-1500	0.13	9	10	12	15	18	19	18	12
		0	0	7	9	12	15	18	18	17	12
	36"	Forward	1500	0.13	6	9	13	14	19	19	19
	Flow	2000	0.24	6	8	12	14	18	19	19	11
<b>SRE-6-48</b>	Reverse	-2000	0.28	9	11	14	19	21	22	19	12
	Flow	-1500	0.15	9	11	15	20	21	22	19	13
		0	0	8	10	14	20	21	22	20	13
	48"	Forward	1500	0.15	8	10	15	19	23	23	21
	Flow	2000	0.28	7	9	14	19	23	23	21	15
<b>SRE-6-60</b>	Reverse	-2000	0.32	10	11	16	22	22	23	19	14
	Flow	-1500	0.18	9	10	16	23	23	23	19	14
		0	0	9	10	15	23	23	24	21	15
	60"	Forward	1500	0.18	8	9	15	21	24	25	21
	Flow	2000	0.32	8	9	15	21	24	25	21	16
<b>SRE-6-72</b>	Reverse	-2000	0.36	11	12	17	22	24	24	20	15
	Flow	-1500	0.20	10	11	16	23	24	25	20	15
		0	0	9	10	15	24	24	25	22	16
	72"	Forward	1500	0.20	9	10	15	23	26	26	23
	Flow	2000	0.36	8	11	16	23	26	26	23	19
<b>SRE-6-84</b>	Reverse	-2000	0.40	12	14	18	24	28	27	23	17
	Flow	-1500	0.22	11	14	18	26	27	28	23	17
		0	0	10	13	17	26	27	28	25	18
	84"	Forward	1500	0.22	10	12	16	26	29	29	27
	Flow	2000	0.40	9	12	16	25	29	30	27	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) =  $CFM / \text{Area, ft}^2 = CFM / (W \times H / 144)$   
where W and H are Silencer Width and Height, inches
- Static Pressure Drop =  $(\text{Actual Velocity}/1500)^2 \times \text{Catalog Static Pressure Drop @ 1500 FPM}$



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)

# Rectangular Elbow Attenuators - Model SRE

## Self-noise Power Levels

Self-Noise Power Levels, dB re 10 <sup>-12</sup> 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 <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