

## Elbow Attenuator - Model **SRE-4**

				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-4-36</b>	Reverse	-1500	0.42	8	15	19	21	22	18	17	14
	Flow	-1000	0.19	9	14	18	21	22	19	18	14
	0	0	8	14	17	20	22	19	18	14	
<b>36"</b>	Forward	1000	0.19	8	13	17	20	23	21	17	15
	Flow	1500	0.42	7	13	17	19	23	21	17	15
	Reverse	-1500	0.45	8	16	21	27	28	25	23	16
<b>SRE-4-48</b>	Flow	-1000	0.20	9	15	20	26	27	24	22	16
	0	0	8	15	19	25	27	24	23	16	
	Forward	1000	0.20	8	12	19	25	28	26	23	17
<b>48"</b>	Flow	1500	0.45	7	13	19	26	28	26	24	18
	Reverse	-1500	0.49	11	15	23	30	32	28	25	18
	Flow	-1000	0.22	11	16	22	31	32	29	25	18
<b>SRE-4-60</b>	0	0	9	16	21	30	32	29	26	18	
	Forward	1000	0.22	9	14	21	30	33	30	27	18
	Flow	1500	0.49	8	14	20	29	32	29	28	19
<b>SRE-4-72</b>	Reverse	-1500	0.51	13	16	26	35	36	33	28	23
	Flow	-1000	0.23	13	17	25	36	37	34	28	23
	0	0	10	18	24	35	36	34	28	22	
<b>72"</b>	Forward	1000	0.23	10	17	24	35	36	34	28	24
	Flow	1500	0.51	10	17	23	34	35	33	30	25
	Reverse	-1500	0.54	13	19	32	39	38	35	28	23
<b>SRE-4-84</b>	Flow	-1000	0.24	14	20	32	40	40	37	29	24
	0	0	11	21	31	39	39	37	29	23	
	Forward	1000	0.24	11	20	31	39	39	38	30	24
<b>84"</b>	Flow	1500	0.54	10	20	30	38	38	36	30	25

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)

# 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