

## Elbow Attenuator - Model **SRE-2**

Model	Flow	Velocity fpm	Static Press	Dynamic Insertion Loss (dB)							
				Octave Band/Center Frequency (Hz)							
				1 63	2 125	3 250	4 500	5 1K	6 2K	7 4K	8 8K
<b>SRE-2-36</b>	Reverse	-1000	0.55	12	16	20	23	26	22	21	20
	Flow	-500	0.13	11	15	18	22	35	22	21	20
		0	0	10	14	17	22	24	23	21	20
	Forward	500	0.13	9	14	16	21	24	23	22	20
	Flow	1000	0.55	8	13	16	21	23	24	23	21
<b>SRE-2-48</b>	Reverse	-1000	0.56	14	18	23	29	32	28	25	22
	Flow	-500	0.14	12	17	22	29	31	29	26	23
		0	0	11	16	21	29	31	29	27	24
	Forward	500	0.14	10	16	21	28	32	30	28	24
	Flow	1000	0.56	8	15	21	27	33	32	30	24
<b>SRE-2-60</b>	Reverse	-1000	0.57	15	19	26	35	38	34	27	21
	Flow	-500	0.14	14	18	26	36	37	35	29	24
		0	0	12	18	26	36	37	35	29	24
	Forward	500	0.14	11	17	25	35	37	36	30	25
	Flow	1000	0.57	10	17	25	34	38	37	32	26
<b>SRE-2-72</b>	Reverse	-1000	0.58	17	20	29	42	44	39	29	21
	Flow	-500	0.14	15	20	30	42	44	40	30	23
		0	0	13	21	31	43	44	41	32	25
	Forward	500	0.14	13	20	29	42	45	41	33	26
	Flow	1000	0.58	12	20	28	41	45	42	34	27
<b>SRE-2-84</b>	Reverse	-1000	0.59	17	25	33	46	47	42	31	24
	Flow	-500	0.14	15	25	33	46	47	43	32	25
		0	0	13	26	34	47	47	44	34	26
	Forward	500	0.14	13	25	33	46	47	44	35	27
	Flow	1000	0.59	12	25	32	45	48	45	36	28

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/1000)<sup>2</sup> x Catalog Static Pressure Drop @ 1000 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