

## Standard Silencer - Model SR-2

		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-2-36</b>	Reverse	-1500	0.43	6	11	17	27	38	32	20	13	
		-1000	0.19	6	10	16	26	37	32	20	14	
	Flow	-500	0.05	6	10	15	26	37	33	20	14	
		0		5	9	15	25	37	33	22	14	
		500	0.05	5	8	14	24	36	33	23	15	
		1000	0.19	5	8	14	24	36	33	23	15	
36"	Flow	1500	0.43	5	8	14	24	35	34	24	15	
	Reverse	-1500	0.59	8	18	28	36	42	37	30	18	
<b>SR-2-60</b>	Reverse	-1000	0.26	8	17	26	37	45	41	31	19	
		Flow	-500	0.07	8	16	24	38	47	48	32	19
	60"	Forward	0		7	15	23	35	48	48	35	21
			500	0.07	7	14	22	35	47	47	35	22
		Flow	1000	0.26	7	13	21	35	46	46	35	22
			1500	0.59	7	13	20	34	45	44	35	23
<b>SR-2-84</b>	Reverse	-1500	0.77	11	24	38	45	46	42	39	23	
		Flow	-1000	0.34	11	23	35	48	52	49	42	24
	84"	Forward	0		9	21	33	49	58	62	44	24
			500	0.09	9	20	31	48	58	62	47	27
		Flow	1000	0.34	9	18	30	47	59	65	47	28
			1500	0.77	9	17	28	45	57	59	47	29
<b>SR-2-120</b>	Reverse	-1500	1.15	13	29	48	55	62	63	50	34	
		Flow	-1000	0.51	12	29	47	54	62	63	50	34
	120"	Forward	-500	0.13	12	28	46	52	62	64	49	32
			0		11	28	45	51	63	65	49	32
		Flow	500	0.13	10	28	44	50	62	65	49	31
			1000	0.51	10	26	43	49	61	66	49	33
		1500	1.15	9	25	42	49	60	66	49	34	

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