

Hospital/Clean Room Attenuator - Model **SRH-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
SRH-6-36	Reverse	-2000	0.20	5	6	8	10	17	18	11	7
		-1500	0.11	5	6	7	10	17	18	11	6
	Flow	-1000	0.05	5	6	7	10	17	19	11	6
		0		4	5	6	9	17	19	12	7
	36" Forward	1000	0.05	5	6	6	8	17	20	13	8
		Flow	1500	0.11	4	5	6	8	16	20	14
		2000	0.20	4	5	6	7	15	20	14	8
SRH-6-60	Reverse	-2000	0.23	7	9	13	19	28	28	16	8
		-1500	0.13	6	8	13	19	29	29	16	7
	Flow	-1000	0.06	6	8	13	18	30	30	17	7
		0		5	7	11	17	32	31	18	9
	60" Forward	1000	0.06	6	7	10	15	32	32	19	10
		Flow	1500	0.13	6	6	10	14	31	32	20
		2000	0.23	5	6	9	13	29	32	20	10
SRH-6-84	Reverse	-2000	0.26	8	11	15	24	30	39	20	10
		-1500	0.15	8	10	15	24	32	40	21	10
	Flow	-1000	0.07	7	10	14	23	34	41	22	10
		0		7	9	13	21	38	42	24	12
	84" Forward	1000	0.07	7	8	12	18	38	43	25	14
		Flow	1500	0.15	7	7	11	17	36	43	26
		2000	0.26	6	7	10	16	34	43	26	15
SRH-6-120	Reverse	-2000	0.30	9	14	17	28	43	49	34	13
		-1500	0.17	9	14	16	27	42	49	33	13
	Flow	-1000	0.08	8	13	16	26	42	48	32	13
		0		7	12	16	25	40	48	31	14
	120" Forward	1000	0.08	7	11	16	24	39	48	30	15
		Flow	1500	0.17	7	10	16	23	38	48	30
		2000	0.30	7	9	15	22	38	48	31	15

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

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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
SRH-2	1000	63	50	42	41	44	44	38	34
	1500	69	58	50	49	50	55	55	52
	2000	83	75	60	59	57	61	66	65
SRH-3	1000	59	49	40	38	41	40	33	31
	1500	65	58	51	49	49	55	55	51
	2000	77	69	59	57	55	60	64	62
SRH-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
SRH-5	1000	54	45	37	34	36	32	25	27
	1500	61	57	52	48	47	54	53	47
	2000	69	63	57	55	53	59	61	56
SRH-6	1000	53	42	36	33	35	29	22	27
	1500	60	56	51	47	46	53	51	44
	2000	67	62	56	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 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