

Hospital/Clean Room Attenuator - Model **SRH-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
SRH-4-36	Reverse	-2000	0.40	8	10	14	20	27	29	22	8
		-1500	0.23	7	9	12	18	26	27	21	8
	Flow	-1000	0.10	6	8	11	17	25	26	21	8
		0		6	7	10	16	25	26	20	8
	36" Forward	1000	0.10	6	7	10	15	24	26	19	9
		Flow	1500	0.23	5	7	10	15	24	25	19
		2000	0.40	5	6	9	14	22	25	19	9
SRH-4-60	Reverse	-2000	0.52	10	13	17	28	39	42	26	11
		-1500	0.29	10	12	16	26	39	42	26	10
	Flow	-1000	0.13	9	11	16	24	38	42	25	10
		0		8	10	15	23	38	41	25	10
	60" Forward	1000	0.13	8	9	14	21	38	41	25	11
		Flow	1500	0.29	7	8	12	21	37	40	25
		2000	0.52	7	8	12	20	36	39	24	12
SRH-4-84	Reverse	-2000	0.60	12	14	22	34	43	49	33	14
		-1500	0.34	11	13	20	32	42	49	33	12
	Flow	-1000	0.15	11	13	19	31	41	48	32	12
		0		10	12	18	29	40	48	31	12
	84" Forward	1000	0.15	10	11	18	28	39	47	30	14
		Flow	1500	0.34	10	11	17	28	39	45	28
		2000	0.60	9	10	17	27	37	45	28	16
SRH-4-120	Reverse	-2000	0.84	14	16	25	39	51	59	42	15
		-1500	0.47	13	16	24	37	50	58	41	14
	Flow	-1000	0.21	13	16	22	36	48	56	40	14
		0		12	15	21	36	45	53	38	15
	120" Forward	1000	0.21	12	14	20	34	44	51	37	16
		Flow	1500	0.47	11	14	20	32	43	50	37
		2000	0.84	11	13	20	32	43	50	35	17

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