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Standard Attenuator - Model SR-4

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
SR-4-36 36"	Reverse Flow	-2000	0.40	5	10	13	22	31	22	12	10
		-1500	0.23	5	9	13	21	31	22	13	10
		-1000	0.10	4	9	13	21	31	23	14	10
		0		3	8	12	21	31	24	16	11
	Forward Flow	1000	0.10	5	8	11	20	30	25	17	12
		1500	0.23	4	8	11	20	30	25	17	12
		2000	0.40	3	7	11	19	29	25	17	12
SR-4-60 60"	Reverse Flow	-2000	0.52	8	15	21	31	37	31	20	13
		-1500	0.29	7	14	20	33	39	33	21	13
		-1000	0.13	6	13	20	33	41	37	22	13
		0		5	12	18	33	44	40	25	15
	Forward Flow	1000	0.13	6	11	18	30	44	42	25	17
		1500	0.29	5	11	17	29	43	40	25	17
		2000	0.52	5	10	16	29	41	37	26	18
SR-4-84 84"	Reverse Flow	-2000	0.60	10	19	29	40	42	40	27	15
		-1500	0.34	9	18	27	44	47	44	28	16
		-1000	0.15	8	17	26	45	51	50	29	17
		0		7	16	24	44	56	55	33	20
	Forward Flow	1000	0.15	7	14	22	40	58	59	33	22
		1500	0.34	7	14	21	39	56	54	34	23
		2000	0.60	6	13	20	38	53	49	35	24
SR-4-120 120"	Reverse Flow	-2000	0.84	11	23	38	50	61	59	36	25
		-1500	0.47	10	22	38	49	61	58	35	25
		-1000	0.21	10	22	37	48	60	58	34	24
		0		9	22	37	47	59	57	33	22
	Forward Flow	1000	0.21	9	21	37	46	58	57	34	25
		1500	0.47	9	21	37	46	58	57	34	25
		2000	0.84	8	21	36	45	58	56	35	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^2 = 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

FLO Anemostat Product Selection

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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Model SR Silencers

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
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^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