Anemostat® AIR DISTRIBUTION

by AEROSONICS A Division of Anemostat, Inc.

Low Frequency Attenuator - Model SRL-3

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
SRL-3-36 36"	Reverse Flow	-1500	0.97	7	11	19	26	27	19	15	11
		-1000	0.43	7	10	18	26	26	19	15	11
		-500	0.11	6	10	17	25	25	20	15	11
		0		6	10	17	25	25	20	15	10
	Forward Flow	500	0.11	6	10	17	25	25	21	15	11
		1000	0.43	6	10	17	24	25	21	15	11
		1500	0.97	6	9	16	24	24	22	16	12
SRL-3-48 48"	Reverse Flow	-1500	1.02	8	14	23	32	32	23	16	11
		-1000	0.46	8	13	22	33	32	23	16	11
		-500	0.11	7	13	21	32	31	23	16	11
		0		7	13	21	32	31	23	16	11
	Forward Flow	500	0.11	7	13	21	32	31	24	16	12
		1000	0.46	7	12	20	28	30	25	16	12
		1500	1.02	7	12	19	27	29	25	17	13
SRL-3-60 60"	Reverse Flow	-1500	1.08	10	18	28	39	38	28	18	12
		-1000	0.48	10	18	27	40	38	28	18	12
		-500	0.12	9	17	26	40	37	28	18	12
		0		9	16	25	40	37	28	17	12
	Forward Flow	500	0.12	9	16	25	40	37	28	17	13
		1000	0.48	8	15	24	32	37	28	18	13
		1500	1.08	8	15	23	32	35	28	18	14
SRL-3-72 72"	Reverse Flow	-1500	1.12	12	20	32	42	42	30	20	13
		-1000	0.5	11	19	31	43	41	30	20	13
		-500	0.12	10	19	30	43	42	31	19	14
		0		10	18	30	43	44	32	19	14
	Forward Flow	500	0.12	9	17	27	42	40	30	19	14
		1000	0.5	10	17	28	38	41	32	20	15
		1500	1.12	10	17	27	37	39	31	23	15
SRL-3-84 84"	Reverse Flow	-1500	1.15	14	22	37	45	46	32	22	15
		-1000	0.51	13	22	36	46	45	33	22	15
		-500	0.13	12	21	35	47	48	34	22	15
		0		12	21	35	48	51	36	21	16
	Forward Flow	500	0.13	12	20	34	46	51	36	22	17
		1000	0.51	12	19	32	44	46	36	23	17
		1500	1.15	11	19	32	43	43	35	28	18

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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
SRL-3-96 96"	Reverse Flow	-1500	1.27	14	23	39	47	47	34	24	16
		-1000	0.57	13	23	39	47	47	34	24	15
		-500	0.14	12	22	38	47	48	35	24	15
		0		12	22	38	48	49	36	23	15
	Forward Flow	500	0.14	12	22	37	47	49	36	23	16
		1000	0.57	12	21	35	45	47	36	23	16
		1500	1.27	11	21	35	45	45	36	25	17
SRL-3-108 108"	Reverse Flow	-1500	1.38	14	25	42	49	48	36	26	17
		-1000	0.62	14	25	42	48	49	36	26	16
		-500	0.15	13	24	42	48	49	36	26	16
		0		13	24	41	48	48	36	16	0
	Forward Flow	500	0.15	13	24	40	48	48	36	24	16
		1000	0.62	13	23	39	48	48	36	24	16
		1500	1.38	12	23	39	47	47	37	23	17
SRL-3-120 120"	Reverse Flow	-1500	1.49	16	27	46	52	50	39	29	18
		-1000	0.66	15	27	46	53	50	39	28	18
		-500	0.17	14	27	45	54	51	41	29	18
		0		14	26	45	55	52	42	28	18
	Forward Flow	500	0.17	14	26	44	55	52	43	28	19
		1000	0.66	13	25	43	52	50	42	29	20
		1500	1.49	13	25	42	50	50	42	29	20

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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Low Frequency Attenuator - Model SRL

Self-noise Power Levels

Model	Velocity fpm	Self-Noise Power Levels, dB re 10^{-12} Watts Octave Band/Center Frequency (Hz) 1 63	2 125	3 250	4 500	5 1K	6 2K	7 4K	8 8K
SRL-2	1000	56	41	41	47	46	41	30	30
	1500	56	47	45	48	53	59	56	48
	2000	63	55	49	51	54	63	67	60
SRL-3	1000	51	40	39	42	42	40	27	26
	2000	53	45	46	48	49	52	46	39
	2500	57	52	54	53	53	58	58	50
SRL-4	1000	47	39	37	37	39	39	24	22
	1500	50	43	47	48	45	46	36	30
	2000	52	49	59	55	52	54	49	40
SRL-5	1000	45	37	35	35	37	37	22	20
	1500	47	41	43	43	42	44	32	29
	2000	49	46	53	50	49	53	46	39
SRL-6	1000	44	36	33	34	35	35	21	19
	1500	45	40	39	38	40	43	29	28
	2000	46	43	47	46	47	52	44	38

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