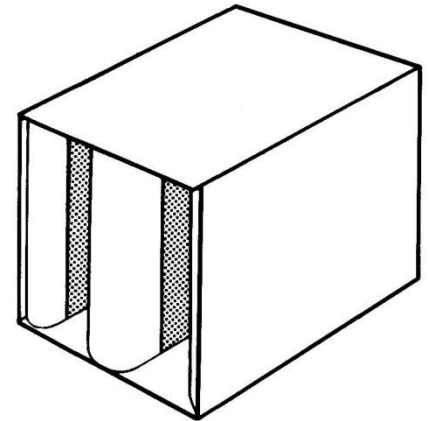


**CERTIFIED PERFORMANCE DATA**
**Testing Information:**

All acoustical performance and aerodynamic data is derived from NVLAP accredited laboratory tests in accordance with ASTM E477, the standard method for testing duct silencers. Published information originated from a 24"x24" (610mm x 610mm) production unit, tested in forward flow ("+" = air/noise in same direction) and reverse flow ("-") = air/noise in opposite direction). If silencers are installed immediately before/after elbows or transitions, at the intake/discharge of the system or without a duct, allowance for such conditions must be included and compensated for when calculating the operating pressure through the silencer. Failure to make allowances for these conditions can add several velocity heads to the pressure loss of the system.



Model	Face Velocity fpm	Insertion Loss (db)							
		Octave Band Center Frequency (Hz)							
		1 63	2 125	3 250	4 500	5 1K	6 2K	7 4K	8 8K
<b>3B4A-IL</b>	-2000	4	7	13	21	23	22	15	9
	-1000	5	8	14	20	22	21	16	8
	+1000	4	6	11	18	21	20	17	9
	+2000	3	6	10	17	21	20	16	9
<b>5B4A-IL</b>	-2000	7	10	20	30	32	29	19	10
	-1000	7	8	18	28	32	32	19	9
	+1000	5	9	14	25	30	33	22	10
	+2000	6	8	13	23	28	34	22	11
<b>7B4A-IL</b>	-2000	10	14	23	38	38	40	28	11
	-1000	9	11	23	35	39	41	29	10
	+1000	8	9	20	33	39	43	31	13
	+2000	8	9	19	32	37	43	31	14
<b>10B4A-IL</b>	-2000	11	15	25	40	41	41	33	15
	-1000	12	14	25	39	43	42	33	15
	+1000	11	13	23	37	42	40	29	16
	+2000	10	12	22	36	42	38	28	17

This table contains forward and reverse flow acoustic performance data based on testing to ASTM E477 testing standards. Copies of these tests can be furnished upon request.

**Standard Construction:**

- Maximum Differential Pressure: 8 in. wg.
- Outer casing: Minimum 22 gauge G90 galvanized steel
- Internal baffles: Minimum 22 gauge G90 galvanized steel
- Lock formed and mastic filled
- Attenuation materials: Inorganic glass fiber packed under a minimum of 5% compression. Flame spread of 15, fuel contributed of 0, smoke developed of 0 as tested with UL Test Procedure 723.
- Internal Lining: Acoustical fill is encapsulated by acoustically transparent stand-off material that is non-erosive, non-pregnable. Ideal for Hospitals, Clean Rooms, Food Processing Facilities and Laboratories.

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AIR FLOW RATINGS FOR THE 12"x12" SIZE, (SHADED), INDICATES CFM AND FACE VELOCITY IN FPM. USE THIS 12"x12" VALUES TO CALCULATE THE RATING FOR SILENCER SIZES NOT SHOWN AND FOR MULTIPLE MODULE SILENCER BANKS.

MODEL	3B4A-IL	0.05	0.09	0.15	0.21	0.32	0.43	0.53	0.63	0.78	0.94	1.05	1.13
	5B4A-IL	0.06	0.10	0.16	0.23	0.35	0.46	0.58	0.68	0.85	1.02	1.14	1.23
	7B4A-IL	0.07	0.13	0.20	0.28	0.43	0.57	0.71	0.85	1.05	1.26	1.41	1.52
	10B4A-IL	0.09	0.16	0.25	0.35	0.53	0.71	0.89	1.05	1.31	1.56	1.75	1.89
SIZE W x H	FACE AREA	AIR FLOW IN CFM											
9 x 12	0.75	530	715	900	1069	1313	1517	1695	1844	2057	2249	2381	2475
9 x 18	1.13	799	1077	1356	1610	1978	2286	2554	2779	3098	3389	3588	3729
9 x 24	1.50	1061	1430	1800	2138	2625	3035	3390	3689	4113	4499	4763	4950
9 x 30	1.88	1329	1792	2256	2679	3290	3803	4249	4623	5155	5638	5969	6204
9 x 36	2.25	1591	2144	2700	3206	3938	4552	5085	5533	6170	6748	7144	7425
9 x 42	2.63	1859	2506	3156	3748	4603	5320	5944	6467	7211	7887	8350	8679
18 x 12	1.50	1061	1430	1800	2138	2625	3035	3390	3689	4113	4499	4763	4950
18 x 18	2.25	1591	2144	2700	3206	3938	4552	5085	5533	6170	6748	7144	7425
18 x 24	3.00	2121	2859	3600	4275	5250	6069	6780	7377	8226	8997	9525	9900
18 x 30	3.75	2651	3574	4500	5344	6563	7586	8475	9221	10283	11246	11906	12375
18 x 36	4.50	3182	4289	5400	6413	7875	9104	10170	11066	12339	13496	14288	14850
18 x 42	5.25	3712	5003	6300	7481	9188	10621	11865	12910	14396	15745	16669	17325
18 x 48	6.00	4242	5718	7200	8550	10500	12138	13560	14754	16452	17994	19050	19800
36 x 12	3.00	2121	2859	3600	4275	5250	6069	6780	7377	8226	8997	9525	9900
36 x 18	4.50	3182	4289	5400	6413	7875	9104	10170	11066	12339	13496	14288	14850
36 x 24	6.00	4242	5718	7200	8550	10500	12138	13560	14754	16452	17994	19050	19800
36 x 30	7.50	5303	7148	9000	10688	13125	15173	16950	18443	20565	22493	23813	24750
36 x 36	9.00	6363	8577	10800	12825	15750	18207	20340	22131	24678	26991	28575	29700
36 x 42	10.50	7424	10007	12600	14963	18375	21242	23730	25820	28791	31490	33338	34650
36 x 48	12.00	8484	11436	14400	17100	21000	24276	27120	29508	32904	35988	38100	39600
FACE VELOCITY, fpm		<b>707</b>	<b>953</b>	<b>1200</b>	<b>1425</b>	<b>1750</b>	<b>2023</b>	<b>2260</b>	<b>2459</b>	<b>2742</b>	<b>2999</b>	<b>3175</b>	<b>3300</b>

SELF GENERATED SOUND POWER RATINGS (PWL) dB RE 10<sup>-12</sup> watts

OCTAVE BAND		1	2	3	4	5	6	7	8
[HZ]		63	125	250	500	1K	2K	4K	8K
MODEL	FACE VELOCITY [FPM]								
ALL LENGTHS	+2000	56	54	48	46	44	52	51	47
	+1000	55	42	34	31	33	31	25	27
	-1000	58	48	43	43	44	43	35	28
	-2000	59	56	53	55	54	59	60	53

SELF GENERATED SOUND RATINGS FACE AREA-ADJUSTMENT FACTORS

FACE AREA [FT <sup>2</sup> ]	.50	1	2	4	8	10	32	64	128
PWL ADJUSTMENT FACTOR, [dB]	-9	-6	-3	0	+3	+6	+9	+12	+16

Version: 1-2014

