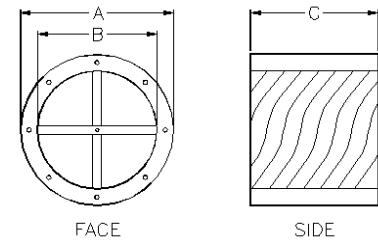


Testing Information:

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" diameter (610 mm) production unit, tested in forward flow (+, air / noise in same direction) and reverse flow (-, air/noise in opposite directions). If silencers are installed immediately before or after elbows, transitions, at the intake or 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	Pressure Drop In.wg.(pa)	Face Velocity fpm	Insertion Loss (db) Octave Band Center Frequency (Hz)								Generated Noise Lw (dB re 10 ⁻¹² Watts) Octave Band Center Frequency (Hz)							
			1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
			63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K
1212	.63	-2000	17	20	19	28	29	29	31	36	53	42	41	39	40	40	25	27
	.16	-1000	17	20	18	27	29	29	31	36	52	41	31	22	18	19	22	25
	0	0	17	20	18	27	29	29	31	26	-	-	-	-	-	-	-	-
	.16	+1000	17	19	18	27	28	29	31	37	52	41	31	22	18	19	22	25
	.63	+2000	17	19	18	27	27	29	31	37	52	41	31	22	18	19	22	25
1818	.24	-2000	13	15	18	24	34	32	47	49	53	42	41	39	40	40	25	27
	.06	-1000	13	15	17	23	33	31	47	49	52	41	31	22	18	19	22	25
	0	0	13	15	17	23	33	31	47	49	-	-	-	-	-	-	-	-
	.06	+1000	13	15	17	23	33	31	47	49	52	41	31	22	18	19	22	25
	.24	+2000	13	15	17	23	33	31	47	49	52	41	31	22	18	19	22	25
2426	.25	-2000	17	20	16	30	23	39	53	54	53	42	41	39	40	40	25	27
	.06	-1000	17	19	16	30	23	39	52	54	52	41	31	22	18	19	22	25
	0	0	17	19	16	30	23	39	52	54	-	-	-	-	-	-	-	-
	.06	+1000	17	19	15	29	23	39	52	54	52	41	31	22	18	19	22	25
	.25	+2000	17	19	15	29	23	39	51	53	17	41	31	22	18	19	22	25
3030	.25	-2000	19	21	21	25	31	45	49	52	53	42	41	39	40	40	25	27
	.06	-1000	19	20	21	25	31	45	49	52	52	41	31	22	18	19	22	25
	0	0	19	20	21	25	31	45	49	52	-	-	-	-	-	-	-	-
	.06	+1000	19	20	21	25	31	45	49	52	52	41	31	22	18	19	22	25
	.25	+2000	19	20	20	25	31	44	48	51	19	41	31	22	18	19	22	25
3636	.24	-2000	16	20	15	24	33	44	48	53	53	42	41	39	40	40	25	27
	.06	-1000	16	20	15	24	33	44	48	53	52	41	31	22	18	19	22	25
	0	0	16	20	15	24	33	44	48	53	-	-	-	-	-	-	-	-
	.06	+1000	16	19	15	24	33	44	48	53	52	41	31	22	18	19	22	25
	.24	+2000	16	19	15	24	32	44	48	52	52	41	31	22	18	19	22	25
4848	.24	-2000	16	20	15	24	33	44	48	53	53	42	41	39	40	40	25	27
	.06	-1000	16	20	15	24	33	44	48	53	52	41	31	22	18	19	22	25
	0	0	16	20	15	24	33	44	48	53	-	-	-	-	-	-	-	-
	.06	+1000	16	19	15	24	33	44	48	53	52	41	31	22	18	19	22	25
	.24	+2000	16	19	15	24	32	44	48	52	52	41	31	22	18	19	22	25



Standard Construction:

- Maximum Differential Pressure: 10 in. wg.
- Outer casing: Cold Rolled steel fully welded and Powder Coated after fabrication.
- Attenuation materials: Fiberglass based acoustical insulation bonded to 26 gauge (0.016" thick) acoustical barrier. All exposed fiberglass face to be bonded with a fiberglass scrim cloth per **Oxel** 919 treatment to a minimum strength per square inch of 80 lbs. warp and 70 lbs. filler, packed under a minimum of 5% compression. Fiberglass based insulation is vermin and moisture proof with a flame-spread maximum of 25

Use the following formula to calculate pressure drop for intermediate velocities (in wg.)

Formula:

$$(\text{Job Velocity}/\text{Catalog Velocity})^2 \times \text{Catalog S.P.} = \text{P.D.}$$

Example:

$$(990/500)^2 \times 0.03 = 0.12 \text{ in w.g.}$$

Options:

- Aluminum Construction
- Stainless Steel Construction
- Fiberglass (FRP)

Aerodynamic Performance Data

Face Velocity fpm & Pressure Drop in. wg.

Model	500	750	1000+	1250	1500	1750	2000+	2500	2750	3000+
1212	.04	.09	.16	.25	.35	.48	.63	.98	1.18	1.40
1818	.02	.04	.06	.10	.14	.19	.24	.37	.45	.54
2426	.02	.04	.06	.10	.14	.19	.25	.37	.45	.54
3030	.02	.04	.06	.10	.14	.19	.25	.37	.45	.54
3636	.02	.04	.06	.10	.14	.19	.25	.37	.45	.54
4848	.02	.04	.06	.10	.14	.19	.25	.37	.45	.54

† Tested velocities (in some cases rounding up to next 100th of in. will occur at some velocities)

Standard Module Weights and Dimensions

Model	OD Dia. A	ID Dia. B	Length C	Face Flow	Net Weight
1212	16 in.	12 in.	13 in.	12 in.	20 lbs.
1818	22 in.	18 in.	19 in.	18 in.	41 lbs.
2426	28 in.	24 in.	26 in.	24 in.	72 lbs.
3030	36 in.	30 in.	30 in.	30 in.	120 lbs.
3636	42 in.	36 in.	36 in.	36 in.	180 lbs.
4848	54 in.	48 in.	48 in.	48 in.	250 lbs.

- Factory tolerances are +/- 1/16"
- Flanges provide bolt patterns for mating ductwork
- Other custom sizes are available

Ordering Information:

To order, state Model #

Example:

2426 FGR-IL

