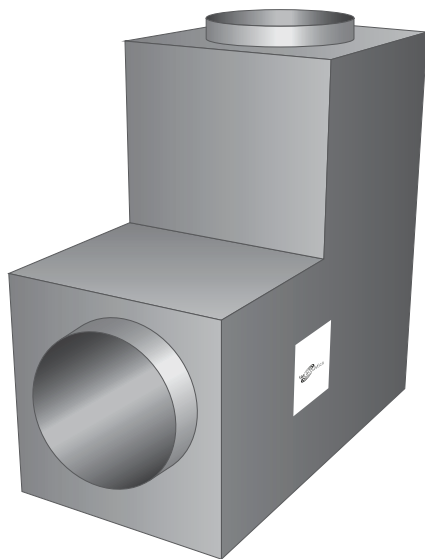


# Ultra-pals™ Packless Silencers Type: TXLB (Elbow)

With Forward and Reverse Flow Ratings



Designed primarily for use in fume hood applications, the complete absence of fill combined with ease of cleaning and draining makes TXLB tubular packless silencers ideally suited for chemical plants, refineries, nuclear power plants and facilities handling petrol, grease, solvents, or other hazardous materials. The elbow configuration makes for a compact arrangement suitable for low head-room or other tight space installations.

### Designating Silencers: Example

Model: 200TXLB-914

Pipe Diameter	Type	Length
200mm	TXLB	914mm

- No Fibreglass
- No Foam
- No Mineral Wool
- No Fill of Any Kind

### Self-Noise Power Levels dB re: 10<sup>-12</sup> Watts

IAC TXLB Model (length in mm)	Octave Band	1	2	3	4	5	6	7	8
	Hz	63	125	250	500	1K	2K	4K	8K
	Silencer Face Velocity, m <sup>3</sup> /s	Self Noise Power Levels, dB							
200TXLB (914)	-10	50	43	40	40	41	43	40	31
	-5	42	32	32	26	23	20	20	20
	+5	42	29	27	32	30	23	21	20
	+10	51	43	41	43	45	49	45	33
300TXLB (914)	-10	58	44	42	44	46	48	47	38
	-5	50	40	34	35	31	27	20	20
	+5	52	38	34	34	35	27	20	20
	+10	62	47	43	45	49	52	49	38

### Physical & Aerodynamic Performance Data

IAC Model	Pipe Dia. (mm)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)	Static Pressure Drop N/m <sup>2</sup>							
						12	22	35	50	70	90	115	139
<b>200TXLB</b>	200	533	533	914	14	12	22	35	50	70	90	115	139
<b>Air Volume, m<sup>3</sup>/s</b>						0.12	0.16	0.21	0.25	0.29	0.33	0.37	0.41
<b>300TXLB</b>	300	533	533	914	16	12	22	35	50	70	90	115	139
<b>Air Volume, m<sup>3</sup>/s</b>						0.28	0.37	0.46	0.56	0.65	0.74	0.83	0.93

### Dynamic Insertion Loss (DIL) Ratings: Forward (+) / Reverse (-) Flow

IAC TXLB Model (length in mm)	Octave Band	1	2	3	4	5	6	7	8
	Hz	63	125	250	500	1K	2K	4K	8K
	Silencer Face Velocity, m <sup>3</sup> /s	Dynamic Insertion Loss, dB							
<b>200TXLB (914)</b>	-10	10	14	26	20	17	14	12	9
	-5	10	14	26	18	14	14	11	9
	0	9	13	25	17	14	13	10	8
	+5	10	13	25	17	14	13	11	8
	+10	10	13	24	19	16	14	12	8
<b>300TXLB (914)</b>	-10	7	8	21	20	15	11	9	4
	-5	7	8	20	19	13	10	8	4
	0	5	6	18	17	11	9	7	3
	+5	5	6	18	17	11	9	7	3
	+10	6	7	18	19	14	10	8	3

### Note

- The tabulated air flow in m<sup>3</sup>/s is based upon tests in the IAC Acoustics R&D Laboratory, in accordance with applicable sections of internationally recognised airflow test codes. These codes require specific lengths of straight duct both upstream and downstream of the test specimen. Non-compliance with these codes can add from 0.5 to several velocity heads depending on specific conditions. The downstream measurements are made far enough downstream to include static regain. Therefore, if silencers are installed immediately before or after elbows, transitions or at the intake or discharge of the system, sufficient allowance to compensate for these factors must be included when calculating the operating static pressure loss through the silencer. See pages 10 and 11 for further details.
- Face Velocity is the airflow (m<sup>3</sup>/s) divided by the Face Area (m<sup>2</sup>)
- Pressure drop for any air volume can be calculated from the equation: PD= (Actual Volume / Catalogue Volume)<sup>2</sup> x (Catalogue PD)

Ultra-Pac™ Elbow Packless TXLB Silencers