

# Morten Acoustic Silencer

**Morten** offers a wide range of high performance acoustic silencers which have independently tested to lower the equipment noise. Silencer models are specifically designed to reduce noise in specific octave bands or across a wide range of noise levels. The rectangular silencers in different materials could serve various situations both in exterior or interior applications.

**Morten** silencers are available in three different modules, which basically have three different ventilation opening widths in 300, 350 and 400mm. The thinner ventilation gap could provide better acoustic performance. Each type has seven choices of length from 600 to 2400mm with no limited sizing on the cross-section. For detail information on other models, please feel free to contact our sales and technical support. To suit any particular application, we could provide tailor-made service basing on our extensive acoustical analysis of your noise problem.

## Key Features

- Energy Saving
- Shorter Length
- Smaller cross-section
- Increased Low Frequency attenuation
- More uniform attenuation over the acoustic spectrum
- Modular design for size flexibility



## Standard Configuration:

Frame:	1.2 to 2 mm Galvanize Steel or Aluminum
Fixing:	Mechanically fastened
Acoustic Insulation:	Fiberglass
Perforated Screen:	0.5 to 1.2mm Galvanize Steel or Aluminum
Finish:	Mill or Powder coating
Typical Length:	900mm and 1200mm (up to 3000mm)

## CDL Studio Limited

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# PERFORMANCE DATA

## Air dynamic Insertion Loss

Model at 1200mm (Length)	Surface Velocity (m/s)	Pressure Drop (Pa)	Octave Band Frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
SA	+3	20	7	14	24	33	37	29	19	15
	+5	55	8	14	23	32	34	30	19	14
	-3	15	7	16	25	32	38	28	16	15
	-5	38	7	16	26	29	33	30	18	16

Performance tested in accredited Laboratory and compliance with ASTM E477-06a

Model & Length	Surface Velocity (m/s)	Pressure Drop (Pa)	Octave Band Frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
SA (900mm)	+2	12	3	6	11	14	18	15	10	5
	+6	85	3	6	11	13	17	16	11	5
	-2	8	3	7	12	14	18	15	8	4
	-6	78	3	7	13	15	19	14	8	5
SA (2000mm)	+2	13	6	15	29	39	48	42	20	11
	+6	123	4	14	27	36	45	42	23	11
	-2	15	6	17	30	41	49	43	21	8
	-6	125	7	18	32	44	49	41	20	8
SA (3000mm)	+2	19	7	23	43	44	46	56	30	16
	+6	153	7	22	41	49	50	57	33	18
	-2	19	10	26	45	47	48	58	27	13
	-6	152	13	29	45	48	49	55	28	13

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