



CHANNEL MOUNTING SOUND MASKING 8" LOUDSPEAKER ASSEMBLIES

M812 Series

FEATURES

- Completely Assembled and Wired for Easy Installation
- Specifically Designed for Installation in Suspended Tile Ceiling Systems
- Finished in Black Epoxy

SOUND MASKING — GENERAL INFORMATION

Open office plan designs are becoming increasingly popular. To maintain a successful acoustic environment in such areas, it is important to take into account the interacting variables which influence office privacy. All components must be coordinated: ceiling/wall treatments, furniture/furnishings, and HVAC systems. In most cases, a sound masking system will also be required to achieve adequate speech privacy at normal voice levels. Masking systems aid in creating continuous background coverage by adding low level sound to obscure ambient noise. The intelligibility of surrounding speech is reduced, as well as the distraction from daily office activity noise.

The selection and placement of masking loudspeakers to control ambient sound is essential for achieving sound privacy in an open office environment; this is true for individual workspaces, as well as in common areas frequented by office workers (i.e., hallways and lounges). Without similar sound levels in both, the workspace could be perceived as noisy. In areas where accurate speech communication is necessary (i.e., conference or meeting rooms), masking is not recommended.

These models are specifically designed for use in T-Bar support systems and are ideal for shallow ceiling applications. Because the loudspeaker is situated as close to the T-Bar as possible, the remaining area enables maximum sound dispersion. Additional units may be required in the following instances: the transmission loss of ceiling panels is low; the distance between the tiles and soffit deck is shallow; the area is occupied by equipment (i.e., HVAC equipment); and if the workspace below has a lower ceiling and small cubicles. (Refer to PN 484016 for more information on sound masking.)



M812 Series

MODEL DESCRIPTION

Select from two square enclosures, two Atlas Sound 8" (203mm) dia. loudspeakers (Model C5A or C10A), and 70.7V (T7) factory-installed transformers. All models allow upward sound dispersion and include two 23 $\frac{3}{4}$ " (603mm) channel support rails and the necessary hardware for installation in T-Bar ceilings. Heavy-gauge CRS enclosures are acoustically treated with undercoating and 1 $\frac{1}{2}$ lb./cu. ft. density fiberglass to absorb the resonance associated with high-frequency sound transmission. Model M813 is supplied with a larger volume enclosure which may improve low frequency response. All units are finished in black epoxy.

Factory-mounted and wired 70.7V (T7) transformer is supplied with .5, 1, 2, and 5-watt primary taps. Taps are externally accessible to facilitate power selection without dismantling the assembly. All units are available with optional rotary switch wired to the transformer primary (suffix model with -RS) and optional conduit box complete with $\frac{1}{2}$ " (13mm) conduit knockouts (suffix model with -BX). For more information, refer to SL9-1149.

M812 Series. Square enclosure offers a cubic content of 529 cu. in. (.087 m³) C10A, 8" Dia. loudspeaker and a 70.7V (T7) transformer. Loudspeaker mounting plate contains no perforated grille and thus positions the speaker cone as fully exposed.

NINE

Specifications subject to change without notice



1601 JACK MCKAY BLVD. / ENNIS, TEXAS 75119 U.S.A. / TELEPHONE: (800) 876-3333 / FAX (800) 765-3435

SPECIFICATIONS								
MODEL*	ATLAS SOUND LOUDSPEAKER**	MAGNET WEIGHT	POWER		ENCLOSURE		BAFFLE DIA.	SOUND DISPERSION
			RATING***	TAPS	VOLUME	DIMENSIONS		
M812-S2T7	S2: 8" Dual Cone Model C10A	10 oz.	12 Watts	.5, 1	529 cu. in.	11 1/2" (295 mm) Sq.	None	Upward
				2, 5	(.087 m ³)	x 4" (102 mm) Deep		
M813-S2T7	S2: 8" Dual Cone Model C10A	10 oz.	12 Watts	Watts	1322 cu. in.	11 1/2" (295 mm) Sq.		
					(.021 m ³)	x 10" (254 mm) Deep		

* (T7) designates Atlas Sound 70.7V Xfmr Model LT-70; Selected 100V line transformers are also available; contact factory.
 ** For additional loudspeaker specifications, request individual specification sheets on models indicated.
 *** Continuous Power Rating.

ARCHITECT AND ENGINEER SPECIFICATIONS

M812 Series. Sound masking assembly shall be Atlas Sound Model _____. Unit shall contain Atlas Sound 8" (203 mm) dia. loudspeaker Model C10A equipped with a 70.7 volt transformer, an enclosure, baffle, and related mounting hardware. System shall be factory-assembled, wired, and ready for installation. Assembly shall include transformer leads externally accessible with .5, 1, 2, and 5-watt power taps

clearly identified. Suitable strain relief shall be installed to protect transformer leads. The CRS enclosure shall measure _____ [M812: 11 1/2" (295 mm) Sq. x 4" (102 mm) D; It shall have a volume of _____ [M812: 529 cu.in. (0.087 m3); Enclosure shall be undercoated and have 1 1/2 lb./cu. ft. density fiberglass installed. Enclosure shall be finished in black epoxy.

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