M812-S2T7-BX-RS

Channel Mounting Sound Masking 8" Loudspeaker Assembly

M812-S2T7-BX-RS

Features

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

Applications

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.

This model is specifically designed for use in T-Bar support systems and is 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.

General Description

Model allows upward sound dispersion and includes two 23¾" (603mm) channel support rails and the necessary hardware for installation in T-Bar ceilings. Heavy-gauge CRS enclosure is acoustically treated with undercoating and 1½ lb./ft.^{3} density fiberglass to absorb the resonance associated with high-frequency sound transmission. Unit is 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.

Model enclosure offers a cubic content of 529 in^3 (.087 m^3) C10A, 8" Diameter loudspeaker and a 70.7V (T7) transformer. Loudspeaker mounting plate contains no perforated grille and thus positions the speaker cone as fully exposed.

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Power Rating	5 Watts @ 70.7V
Power Taps	.5, 1, 2, & 5 Watts
Volume	529 in^3 (.087m^3)
Frequency Response	100Hz - 10kHz
Sensitivity	94dB
UL Listed	1480

Architect And Engineer Specifications

Sound masking assembly shall be Atlas Sound Model _____. Unit shall contain Atlas Sound 8" (203mm) diameter loudspeaker Model C10A equipped with a 70.7V 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: 11⅝" (295mm) Square x 4" (102mm) D; It shall have a volume of _____ [M812: 529 in^3 (0.087m^3); Enclosure shall be undercoated and have 1½ lb./ft.^{3} density fiberglass installed. Enclosure shall be finished in black epoxy.

Atlas Sound
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