

SPECTRA®

PRODUCT SHEET & SPECIFICATIONS

PLENUM INVERTED MAIN SERIES MODEL LM6-INV/LM4-INV

TYPICAL APPLICATIONS FOR THIS SERIES

For use in traditional plenum space. Available height 6" and 4" models. All Lencore Sound Masking Systems are custom designed to meet local codes and to fit a variety of site conditions and applications in:

- + Open Plan
- + Closed Plan
- + Retrofit
- + New Construction

Inverted speakers face downwards to the masking environment. This typical arrangement is required for high ceilings, deep plenum or shallow plenum.



Unit shown is 6" diameter and is available in 6" and 4" height.

The Lencore Spectra® Sound Masking LM6-INV and LM4-INV units consist of an individual self-contained noise generator, audio amplifier, and loudspeaker in a damped metal enclosure, powered by 16/18 volts AC and are capable of driving two secondary models.

Each main unit is solid state and consists of a CMOS/ MSI digital random sequence noise generator, electronic amplifier and filter for active spectrum shaping, and is equipped with a 10-step volume control plus an additional continuous volume control. Range of sound level: 56-86 dBA (measured at 1.5 feet from speaker). Additionally contained is a continuous and completely separate volume control for music/paging.

The masking system can be uniquely adjusted to suit a variety of standard and non-standard ceiling conditions by making adjustments to the amplitude and spectra shapes. This adjustment can be made in increments of $\pm 1/2$ dB. In addition, the system has the adjustment capability to provide the most unobtrusive sound while obtaining the maximum speech privacy that meets ASTM E-1130 standards for speech privacy and sound uniformity. The spectrum shape adjustment ranges from 1dB at 125 Hz to 20 dB at 8,000 Hz (typical).

The Spectrum Graph on following page (measured in A-scale) depicts the range of spectra attained with standard fiberglass or mineral ceiling tile. The lower spectra provides for the most unobtrusive sound, while the upper spectra provides for maximum speech privacy.

Lencore's Spectra® System can incorporate a high-quality paging and music system to handle all call paging, zoned paging, voice over IP, paging through the phone system, security and life safety paging.

Lencore's Spectra® can work in conjunction with Lencore's SPEC™ software program which serves as a diagnostic and planning tool for sound masking and paging systems to qualify and analyze the acoustical performance levels of your space, enabling a fact-based approach to predicting spatial and temporal uniformity of sound for sound masking.

PLENUM INVERTED MAIN SERIES

– ENCLOSURE:

- + Aluminum Housing
- + Galvanized Perforated Grill
- + Lightweight Mounting Tripod Chain
- + Height: 6" LM6-INV 4" LM4-INV
- + Diameter: 6" LM6-INV 6" LM4-INV
- + Weight: 3 lbs. LM6-INV 3 lbs. LM4-INV

– LOUDSPEAKER:

- + 5-inch-wide dispersion
- + Power Rating: 10 watts RMS
- + Frequency Response: 50-12,000 Hz
- + Impedance: 16 Ohms
- + Resonance: 82 Hz
- + Magnet Weight: 10 oz.
- + Magnet Structure Weight: 26 oz.
- + Cone: Formed Fiber
- + Cone Suspension: High Compliance Foam
- + Voice Coil: 1-inch diameter
- + Voice Coil Form: Anodized Aluminum

– GENERAL SPECIFICATIONS:

- + Paging Input: 25v RMS at 12.5mW (50kOhms)
- + Power Requirement: 16v/18v AC, 60 Hz at 50mA (typical no page)
- + With Paging: Up to 200mA
- + Output Adjustment: 15dB step-volume control
- + Additional continuous control (56-86 dBA total), plus a central volume control that can control up to 50 masters for an additional attenuation of 15dB
- + System can be tuned to +/- ½ dB

– WIRE REQUIREMENT:

- + 18 gauge, plenum rated non-shielded 2, 4 or 6 conductor depending on application

**Masking/Paging Units are UL Listed
for use in air handling spaces**

OTHER SYSTEMS ALSO AVAILABLE

Spectra i.Net™ (Networked)

In-plenum and direct fired all available with paging/music.