

# CLASSIC SPEAKERS

MODEL LM6



## FUNCTION

Lencore's Classic Sound Masking unit consists of an individual self-contained noise generator, audio amplifier and loudspeaker in a damped metal enclosure, powered by 16/18 volts AC. The main unit (LM6) is capable of driving two secondary units (LS6).

Secondary units are connected to a main unit that is solid state and contains a CMOS/ MSI digital random sequence noise generator and filter for active spectrum shaping. All units are equipped with a 10-step volume control plus an additional continuous volume control. 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 20dB at 8,000 Hz (typical). Lencore's Classic 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 Classic system 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 factbased approach to predicting spatial and temporal uniformity of sound for sound masking.

## TYPICAL APPLICATION FOR THIS SERIES

For use in traditional plenum space. 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

# PRODUCT SHEET & SPECIFICATIONS

## CLASSIC SPEAKERS

### MODEL LM6

#### ENCLOSURE

- + Aluminum Housing
- + Galvanized Perforated Grill
- + Lightweight Mounting Chain

#### SPEAKER MODEL DIMENSIONS

- Height – 6"
- Diameter – 6"
- Weight – 3lbs

#### LOUDSPEAKER

- + 5-inch - wide dispersion
- + Power Rating: 10 watts
- + Frequency Response: 60-13,000 Hz
- + Impedance: 16 Ohms
- + Resonance: 85 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 +/- 1/2 dB

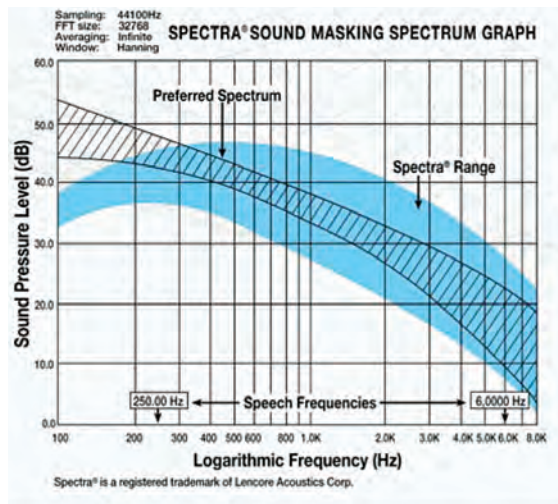
#### RANGE OF SOUND LEVEL

- + LM6: 56-86 dBA (measured at 1.5' from speaker)
- + LM6-RCVC/ LM6-CVC: 41-86 dBA (measured at 1.5' from speaker)
- + LS6: 56-86 dBA (measured at 1.5' from speaker)

#### WIRE REQUIREMENT

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

#### SPECTRUM GRAPH



The Spectrum Graph above (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.

#### AGENCY LISTINGS

- + UL 2043: Approved for use in air-handling spaces. US and Canada.
- + UL 813: Approved for Commercial Audio and Radio equipment, systems and accessories. US and Canada.

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### HOW TO SPECIFY A MODEL # FOR CLASSIC:

	I	II	III	-	IV	V	VI
All Models	Lid Type	Specify Unit Type	Specify Unit Height		Specify Hanging Style (Not available on desktop units)	Specify Wire Box If Local Code Dictates	Specify Central or Remote Volume Control (Option only available with Main Unit)
L	Leave blank for standard lid	M (for Main)	6"		Leave blank for standard hanging method	Leave blank for power wires with no box	Leave blank for standard controls
	G035 for plastic ceiling plate unit	S (for Secondary)			TRI for tripod hanging or 3-notch chain configuration	HB - Handy Box Unit (ex. St. Louis, Miami, etc.)	RCVC for Remote Central Volume Control
	E035 for HVAC - metal ceiling plate unit	DT (for Desktop unit)			U for Universal detached tripod hanging chain (up or down)	C - Air Tight Electrical Box Unit (ex. Chicago, etc.)	

### Example

LG035M6-HB - Ceiling Plate, Main 6", with Handy Box Unit

All Models	Lid Type	Specify Unit Type	Specify Unit Height		Specify Hanging Style	Specify Power Wires Covered	Specify Central or Remote Volume Control
L	G035	M	6	-		HB	

\*Units can be custom painted upon request

\*LG036-M6 not available in Black or RCVC



HB - Handy Box  
(St. Louis, Miami, etc.)



C - Air Tight Electrical Box  
(Chicago, etc.)



TRI - Tripod  
U- Universal\*



INV - Inverted



LG035 - Ceiling Plate



RCVC

\*Universal Speakers have lances on top and bottom to hang upwards or downwards