



AMK Commercial Series

SA801 / SA871

8" Coaxial Loudspeaker Assembly



The AMK **SA 801 / SA871** loudspeaker assembly has a full-range, low distortion, and co-axial transducer. Its excellent polar dispersion derived from a high quality broad pattern polyamide tweeter makes it suitable for foreground or background music applications. High efficiency, excellent voice intelligibility, and a smooth high frequency response allow this speaker to be used in a wide range of commercial applications.

Features:

- ♦ Woofer Cone: Treated Paper
- ♦ Surround Material: Cloth Roll
- ♦ Tweeter: 1" Dome Tweeter
- ♦ Transformer Switch Taps:
8Ω, off, 15W, 10 W, 5 W, 2.5 W

Specifications

Frequency Response	85 Hz - 20 kHz
Input Selector Switch	15W, 10W, 5W, 2.5W, Off and 8 ohms
Power Handling at 8 ohms	20W
Sound Pressure level (1w/1m)	90dB
Voice-coil diameter	1"
Average Beamwidth @ 2 kHz	104°
Magnet Weight	10 oz
Magnet Material	Barium Ferrite
Tweeter	13mm polyamide hard dome
Tweeter Magnet	Barium Ferrite
Woofer Cone	Treated Paper
Surround Material	Cloth-roll
Crossover Frequency	5.5 kHz
Depth	11.75" for SA801 (8.25" for SA 871)
Diameter of the Enclosure	9.25"
Diameter of the Grille	12.75"
Enclosure Mounting	Metal Swivel Clamp
Net Weight (Grille, Back Enclosure, and Loudspeaker)	8.0 lbs
Shipping Weight (pair)	27.0 lbs

Innovative Features

Each system includes a renowned AMK Coaxial loudspeaker like those already installed in hundreds of locations

Easy to install

- All-metal swivel mounting system allows standard installation of speakers without having to align the enclosure to the tile bridge
- This installation procedure is quick and unique to the industry
- The simplicity of our one-wire connection aids in speedy installation
- Architecturally pleasing white perforated metal grille that uses a unique metal clasp system for a "no visible hardware" finished look with ease of "snap on" installation

Sound

- The Plenum Compatible Back Enclosure is designed to maximize the performance of the speaker mounted inside
- Front accessible switch allows selection from various transformer wattage taps to control SPL or direct to 8ohms

Convenience

- Ease of purchasing with "one part number" convenience
- No more "which goes with what" conventional product field assembly of separately ordered parts

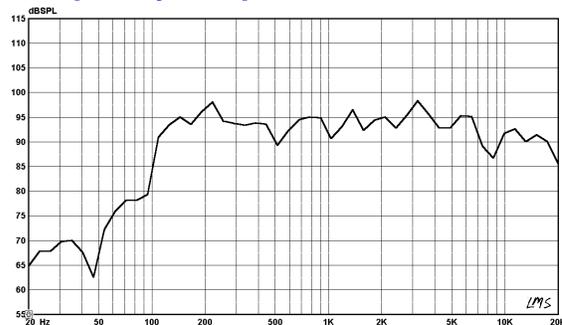
Safety

- The use of all-metal attachment parts makes for an overall safer installation
- All-metal swivel prevents breakage of swivel during installation
- All-metal swivel mounting system is not easily compromised by fire

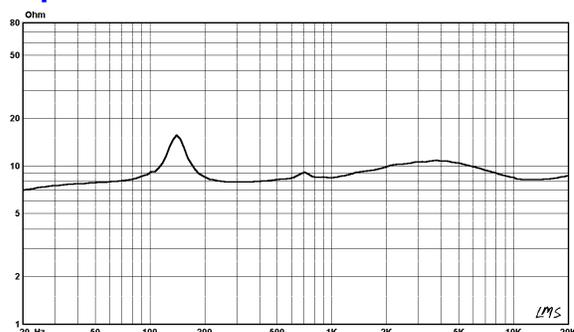
Custom Manufacturing Options

- The option of custom depth back enclosures are available
- Various different transformers are available
(Please allow some lead time for custom manufacturing)

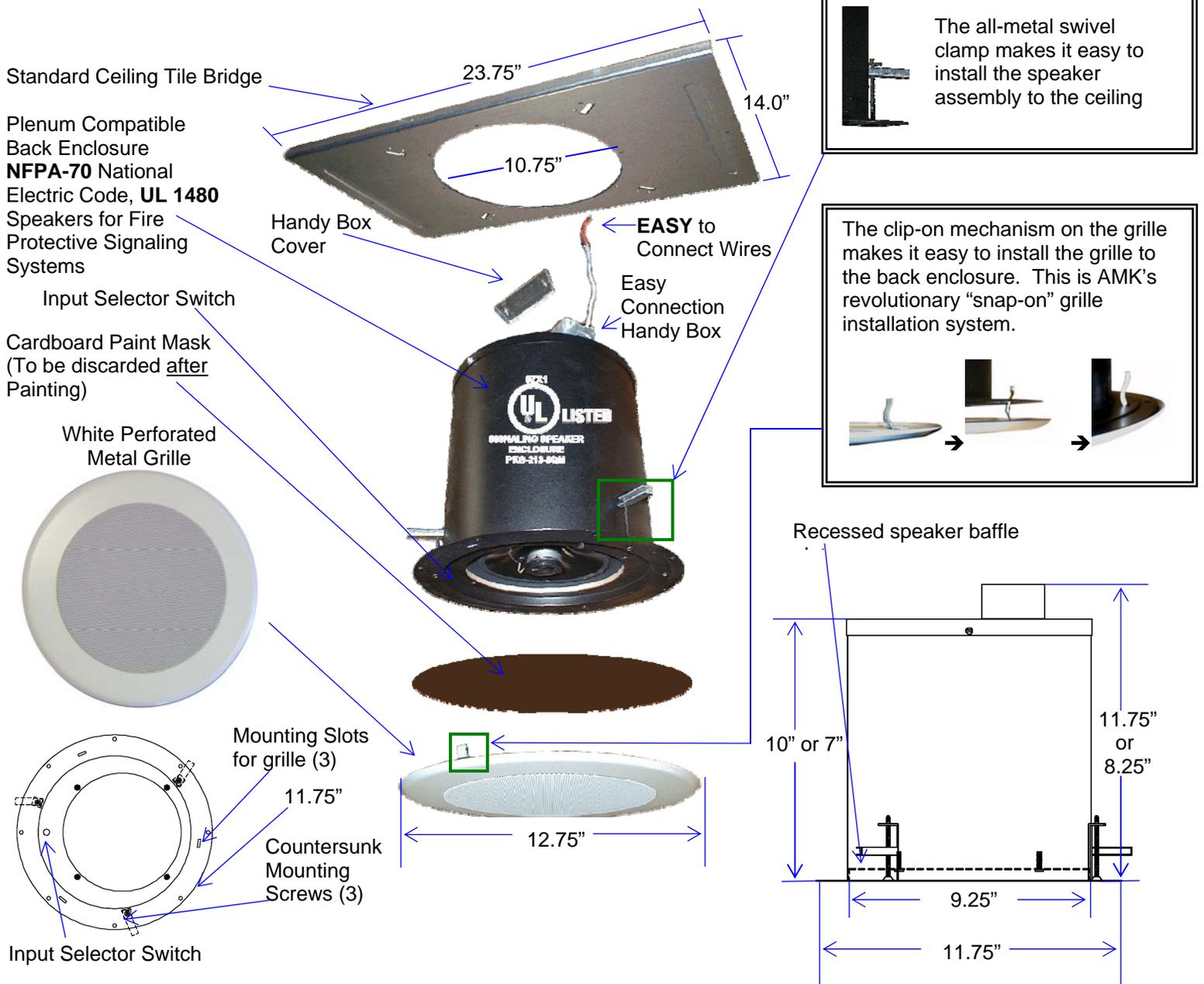
Frequency Response



Impedance Curve



SA 801 / SA 871 ILLUSTRATION



Architects & Engineers Specifications

The loudspeaker system shall be **AMK SA 801/ SA 871**. The speaker assembly in the system shall be of the coaxial type with an 8" woofer of treated paper, a surround of pleated cloth, and a 1" polyamide hard dome tweeter mounted on a post. The loudspeaker system shall have a white metal round grille that snaps into the rim of the mounting enclosure. The system shall have an input selector switch that shall have sections of 15W, 10W, 5W, 2.5W, (for 70.7 volts) off, and 8 ohm positions.

The transducer in the loudspeaker system shall be AMK CX801 coaxial loudspeaker. The woofer shall have a 10 oz. (284g) Barium Ferrite magnet. The two reproducer sections shall be coupled through a built-in capacitor bypass crossover. The crossover frequency shall be at 5.5 kHz. The low frequency reproducer shall have 1" (25.4mm) voice coil and the high frequency reproducer shall have 0.51" (13mm) voice coil.

The system shall have a frequency response of 85Hz-20kHz (+/- 5dB). The power handling shall be 20watts at 8 ohm impedance. The sensitivity shall be 90dB at 1watt / 1meter.

The enclosure of the system shall be UL listed under **NFPA-70** National Electric Code and **UL 1480** Speakers for Fire Protective Signaling Systems.

The assembly shall have a metal swivel clamp mounting system. The enclosure unit shall be plenum compatible. The rim diameter shall be 11.75". The enclosure diameter shall be 9.25". The depth of the assembly shall not exceed 11.75". The system includes a handy box, with cover, for wire enclosure, bonded to the back of the unit. The system shall include a tile bridge. The system shall have a metal strap for attachment to the structure for seismic protection. The weight of the total system assembly shall not exceed 8.0 lbs. The loudspeaker assembly shall be AMK Innovations model **SA 801** (or **SA 871** for 7" Deep Enclosure).

Conforms to EIA Standards: RS-276-A, RS-278-B, RS-426-A