



AMK Commercial Series

## SA802 / SA872

8" Coaxial Loudspeaker Assembly



The AMK **SA 802 / SA872** loudspeaker assembly has a full-range, low distortion, and coaxial transducer. The loudspeaker component, **AMK CX-802**, has all polymer materials, making the speaker weather and water resistant. It is highly recommended and used by consultants and installers for outdoor and indoor environments.

### Features:

- ♦ Woofer Cone: Polypropylene
- ♦ Inverted Rubber Surround
- ♦ 1" Dome Tweeter
- ♦ Weather and Water Resistant
- ♦ Transformer Switch Taps:  
8Ω, off, 30W, 20 W, 10 W, 5 W

### Specifications

<b>Frequency Response</b>	55 Hz - 22 kHz
<b>Input Selector Switch</b>	30W, 20W, 10W, 5W, off and 8 ohms
<b>Power Handling at 8 ohms</b>	40W
<b>Sound Pressure level (1w/1m)</b>	91dB
<b>Voice-coil diameter</b>	1.15"
<b>Average Beamwidth @ 2 kHz</b>	110°
<b>Magnet Weight</b>	20 oz
<b>Magnet Material</b>	Barium Ferrite
<b>Tweeter</b>	13mm polyamide hard dome
<b>Tweeter Magnet</b>	Barium Ferrite
<b>Woofer Cone</b>	Polypropylene
<b>Surround Material</b>	Inverted rubber Surround
<b>Crossover Frequency</b>	5.5 kHz
<b>Depth</b>	11.75" for SA802 (8.25" for SA 872)
<b>Diameter of the Enclosure</b>	9.25"
<b>Diameter of the Grille</b>	12.75"
<b>Enclosure Mounting</b>	Metal Swivel Clamp
<b>Net Weight (Grille, Back Enclosure, and Loudspeaker)</b>	10.0 lbs
<b>Shipping Weight (pair)</b>	31.0 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

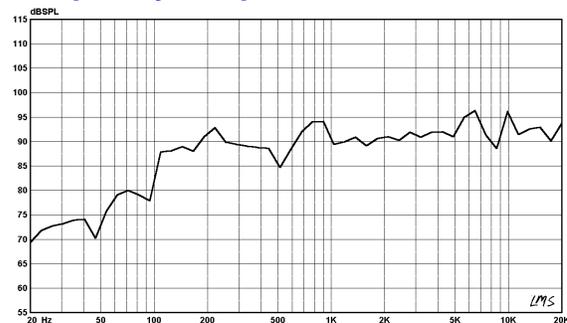
#### Safety

- 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

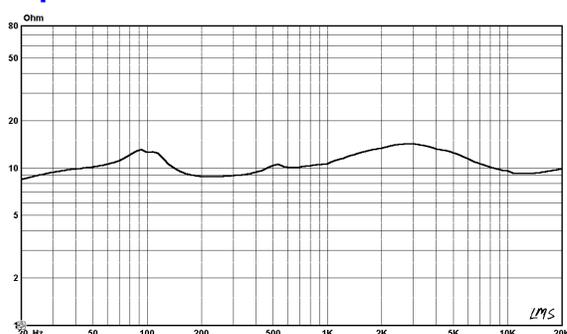
#### Custom Manufacturing Options

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

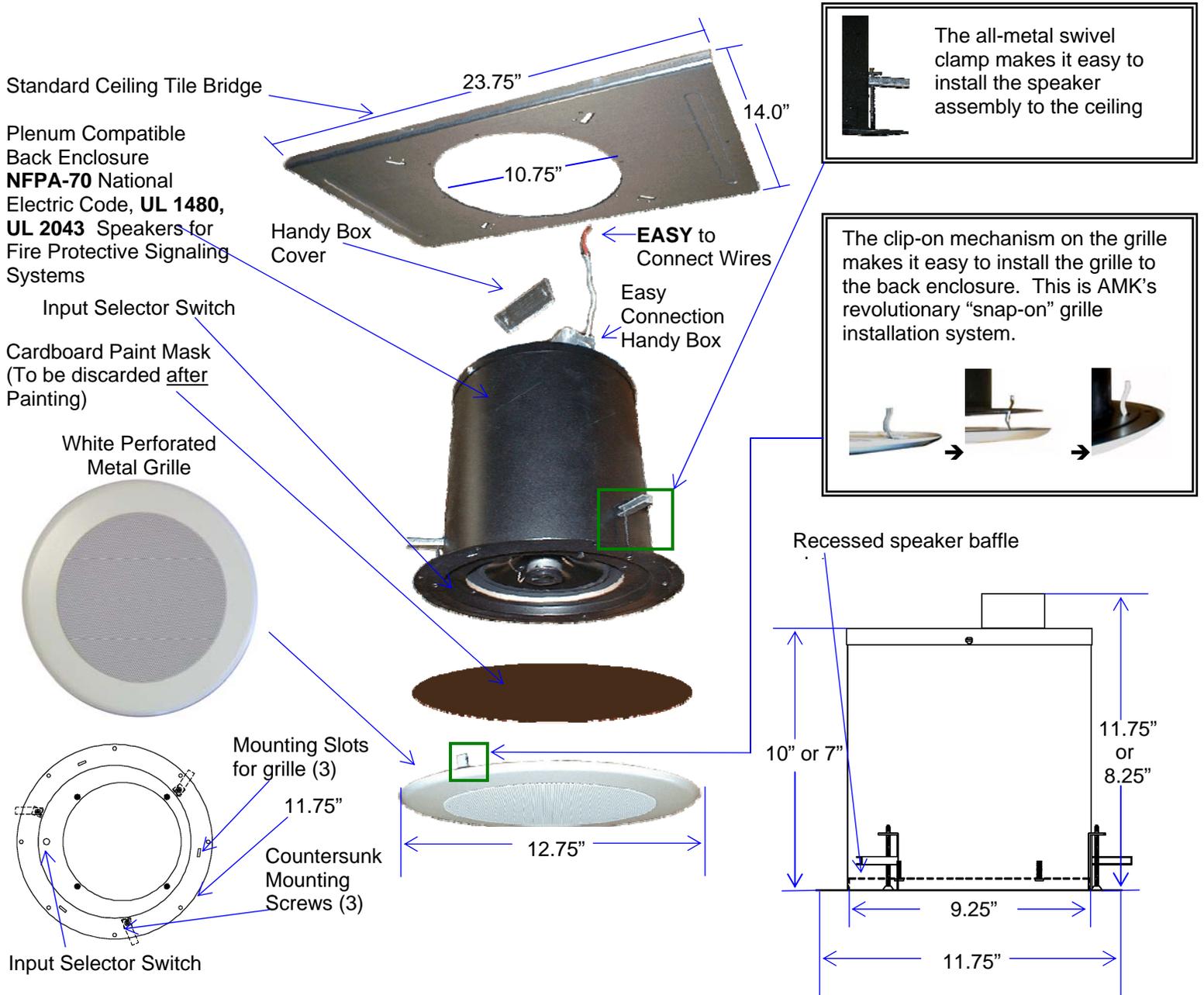
### Frequency Response



### Impedance Curve



# SA 802 / SA 872 ILLUSTRATION



## Architects & Engineers Specifications

The loudspeaker system shall be **AMK SA 802/ SA 872**. The speaker assembly in the system shall be of the coaxial type with an 8" woofer of polypropylene, an inverted rubber roll surround, 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 30W, 20W, 10W, 5W, (for 70.7 volts) off, and 8 ohm positions.

The transducer in the loudspeaker system shall be AMK CX802 coaxial loudspeaker. The woofer shall have a 20 oz. (567g) 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 55Hz-22kHz (+/- 5dB). The power handling shall be 40watts at 8 ohm impedance. The sensitivity shall be 91dB 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 total weight of the unit system shall not exceed 10.0 lbs. The loudspeaker assembly shall be AMK Innovations model **SA 802** (or **SA 872** for 7" Deep Enclosure).

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