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AMK Commercial Series

## QSA 802-MD2L-RVC

Self Amplified 8" Coaxial Loudspeaker Assembly



The **AMK QSA615-MD2L-RVC** powered speakers feature a 40 watt Class D digital design amplifier, with > 75% efficiency for the main speaker. This unit is a quarto system of 4 speakers, one powered speaker and three companion speakers. The speaker combines high performance, power handling, and a very smooth response.

The loudspeaker driver, CX602, is one of the few transducers in the commercial sound industry that produces and meets the standards of recording studio. Excellent dispersion, wide bandwidth, and a smooth frequency response make this the top choice for today's overhead commercial applications.

There are wide ranges of the application for this unit, especially in educational markets and corporate boardrooms where direct input of the signal from the processor is desired (i.e., projectors, laptops, or any line level device)

### Features:

- \* All metal construction, including baffle
- \* High performance 6½" coaxial loudspeaker with wide dispersion
- \* Self powered with 20 watt Class D amplifier
- \* **UL Listed (UL 1480, UL 2043) PK-213-6 Enclosure**

### 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
- Architecturally pleasing white perforated metal grille that uses a unique metal spring system for a "no visible hardware finished look and the ease of a "snap on" installation

#### Custom Manufacturing Options

- Custom depth back enclosures are available
- Power supply available internal or external

#### 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

#### Sound

- The plenum compatible back enclosure is designed to maximize the performance of this studio quality speaker

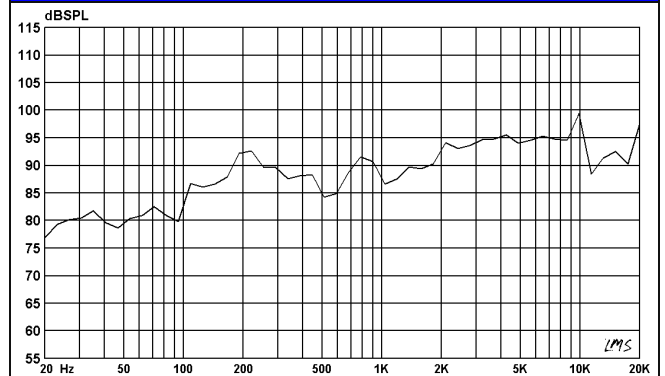
### Specifications

Frequency Response	55 Hz - 20 kHz
Voice-coil diameter	1"
Average Beamwidth @ 2 kHz	110 deg.
Magnet Weight	20 oz
Magnet Material	Barium Ferrite
Tweeter	13mm Polyamide Soft Dome
Woofer Cone	Polypropylene
Surround Material	Inverted Rubber
Crossover Frequency	5.5 kHz
Depth of the Enclosure	7 in.
Diameter of the Grille	12.75 in.
Enclosure Mounting	Metal Swivel Clamp

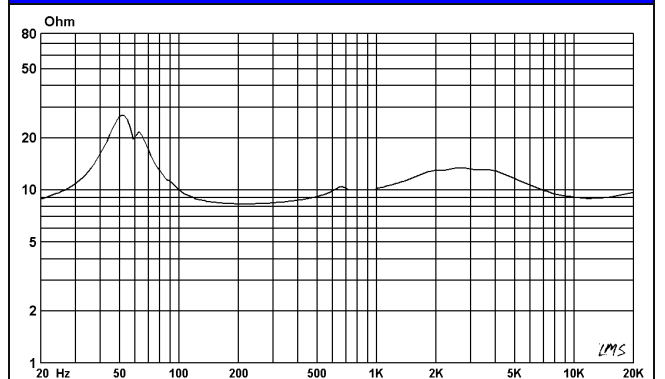
### Amplifier Specifications

Amplification	40 watt Class D design amplifier
Amplifier Efficiency	> 75%
Total Harmonic Distortion	< 0.2%
Signal to Noise Ratio	>95dB
Protection	Protected as to short circuit to supply and ground, as well as minimum current
Controls	Input potentiometer level adjustment

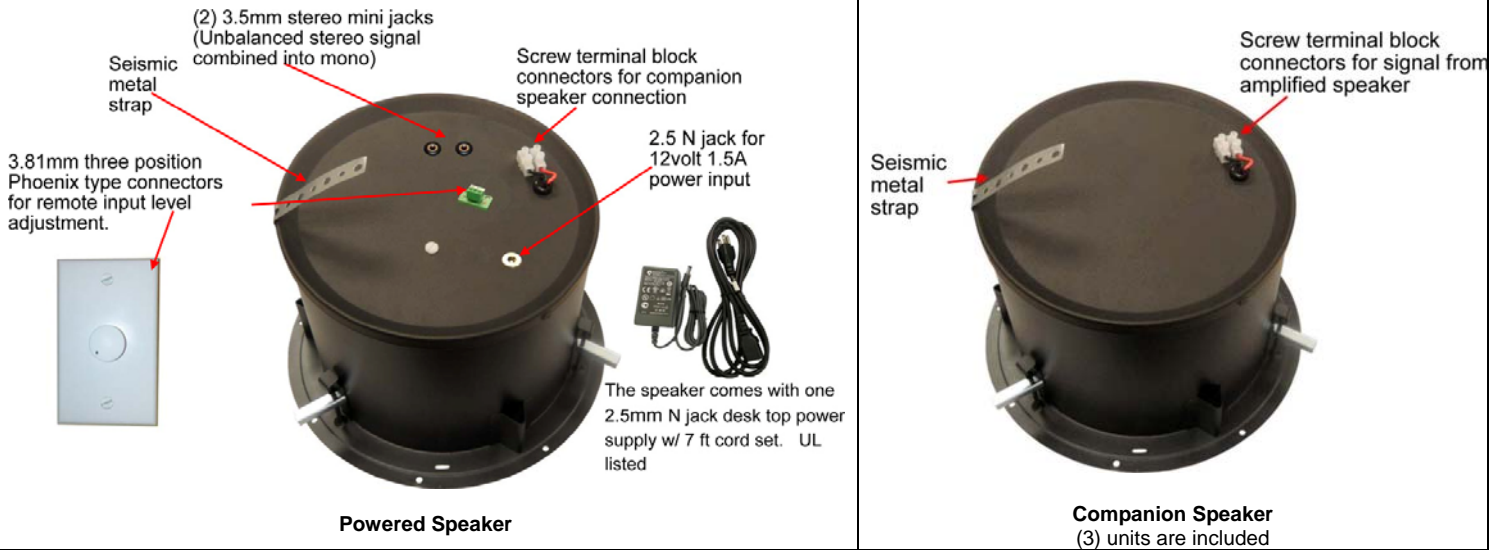
### FREQUENCY RESPONSE



### IMPEDANCE CURVE



## MODEL CONFIGURATION



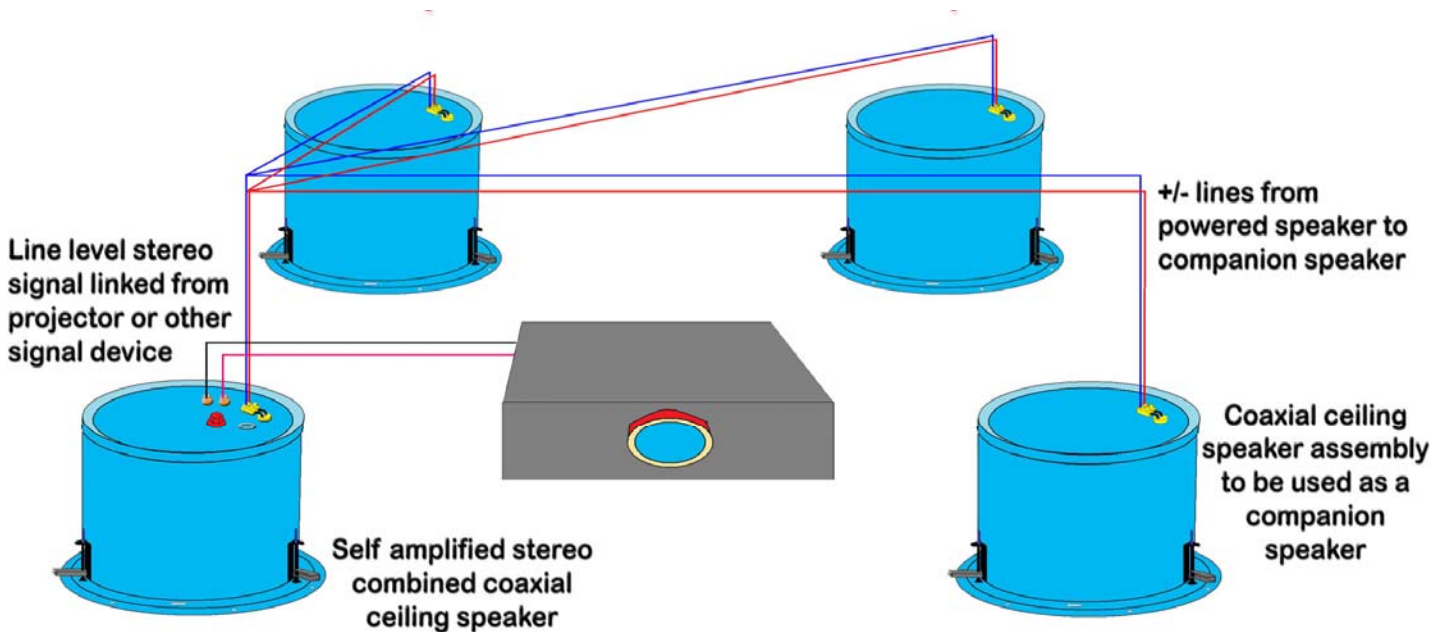
**Powered Speaker**

**Companion Speaker**  
(3) units are included

<b>Power Supply</b>	External 12Volt	<b>Signal Input</b>	Stereo to Mono unbalanced
<b>Power Connection</b>	2.5mm N jack desk top power supply	<b>Companion speaker input/output connections</b>	Screw terminal block connectors
<b>Input Connection</b>	(2) 3.5mm stereo mini jacks (Unbalanced stereo signal combined into mono)	<b>Input Level Adjustment</b>	Internal
<b>Additional Suffixes</b>	The part numbers listed include the <b>TB8R</b> for use with suspended ceilings and speaker Grills For hard lid applications please add either of the following at no additional charge: <b>-SACSD</b> for the metal C ring for retro fit applications. <b>-MD8</b> For the pre-construction mud ring.		

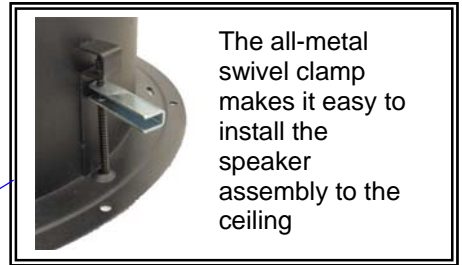
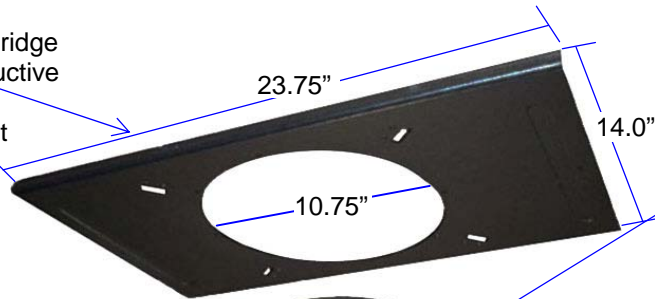
## Wiring Diagram

All the speakers are connected in parallel



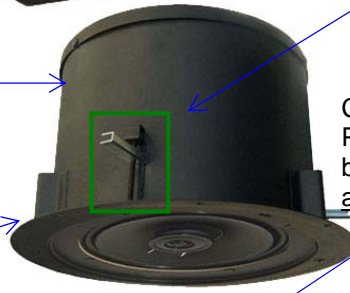
# QSA 615-MD2L-RVC ILLUSTRATION

Standard Ceiling Tile Bridge  
Treated with non conductive  
paint material to inhibit  
flow of electrical current  
on the ceiling grid to  
the main speaker  
enclosure

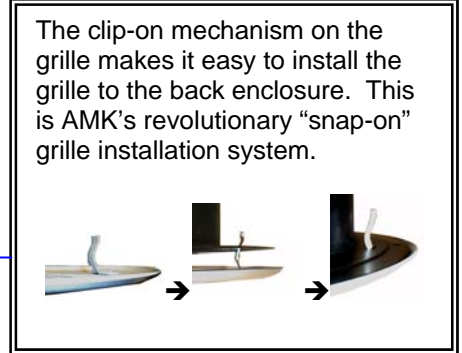


The all-metal  
swivel clamp  
makes it easy to  
install the  
speaker  
assembly to the  
ceiling

Plenum Compatible  
Back Enclosure  
**NFPA-70** National  
Electric Code, **UL 1480**  
and **UL 2043**, Speakers  
for Fire Protective  
Signaling Systems

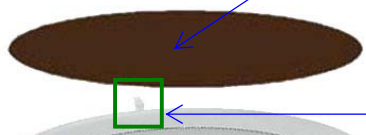


Cardboard  
Paint Mask (To  
be discarded  
after Painting)



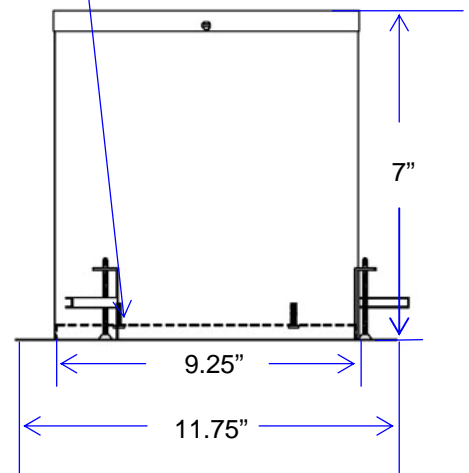
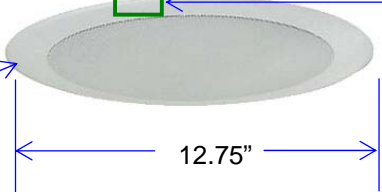
The clip-on mechanism on the  
grille makes it easy to install the  
grille to the back enclosure. This  
is AMK's revolutionary "snap-on"  
grille installation system.

Guide for alignment of  
enclosure to tile bridge  
for grille installation



Recessed speaker baffle plate

White Perforated  
Metal Grille



## Architect's & Engineer's Specifications

The powered loudspeaker system shall be **AMK QSA 802-MD2-RVC**. The speaker shall feature a 40watt Class D design amplifier, with >75% efficiency for the speaker. The powered speaker systems shall be one amplified speaker with three companion speakers.

The loudspeaker system shall have a white metal round grille with a mounting spring tab snaps into the rim of the enclosure.

The powered unit of the system shall have two 3.5mm stereo mini jacks for unbalanced audio stereo signal combined into mono audio input. The input level shall be control by the external potentiometer provided with mounting plate. The power connection shall be a 2.5mm N jack. The system shall have 12 volt 1.5 Amps line level desktop power supply.

The transducer in the loudspeaker system shall be AMK CX 802 coaxial loudspeaker. The woofer shall have a 40 oz. (1.13 Kg) 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 55 Hz-20 kHz (+/- 5dB). The power handling shall be 40watts at 8 ohm impedance. The sensitivity shall be 91dB at 1watt / 1meter.

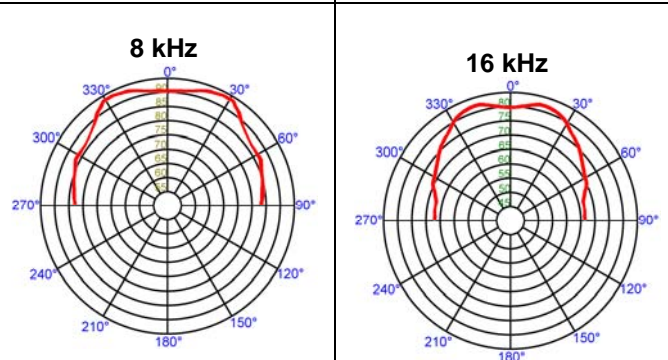
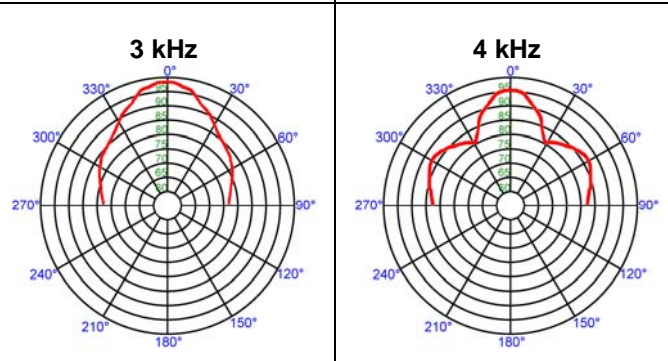
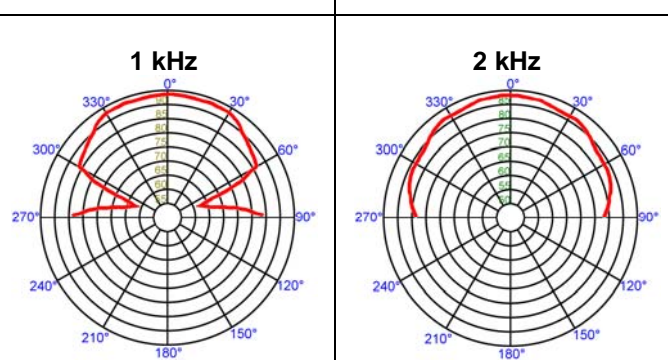
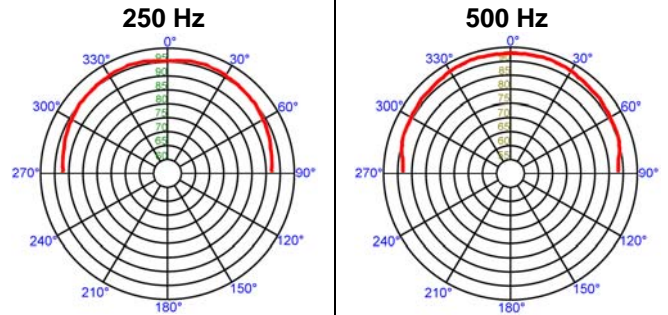
The depth of the each enclosures shall be 7 inches. The rim diameter shall be 11.75". The enclosure diameter shall be 9.25". The depth of the each enclosures shall not exceed 11.75". The system shall include a tile bridges. The system shall have a metal strap for attachment to the structure for seismic protection.

The total weight of the each unit system shall not exceed 10.0 lbs.

The loudspeaker system shall be AMK Innovations model **QSA 802- MD2-RVC**.

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

## Polar Responses



Freq	Deg	Q	DldB
250 Hz	98°	5.1	7.1
500 Hz	95°	5.7	7.5
1 kHz	55°	9.9	10.0
2 kHz	55°	8.2	9.2
3 kHz	34°	14.4	11.6
4 kHz	25°	18.0	12.6
8 kHz	65°	5.1	7.1
16 kHz	52°	6.9	8.4