SPECIFICATIONS MQV1394e

FEATURES

- Full-range, 3-way system
- 15-in LF; 10-in horn-loaded MF; 2-in exit Neodymium HF
- 90° x 40° beamwidth
- Horizontally configured to create vertical arrays

DESCRIPTION

A 3-way, full-range system in a vented trapezoidal enclosure. Includes a slot-loaded 15-in woofer, a horn-loaded 10-in MF cone with Radial Phase Plug™, and a 2-in exit/3-in diaphragm Neodymium compression driver. The MF and HF horns provide a nominal 90° x 40° beamwidth. An internal passive crossover with jumpers on the input panel allows user selection of either bi-amplified or passive operation. In either case digital signal processing is required to achieve specified performance. The enclosure features a comprehensive system of 3/8"-16 threaded suspension points.

APPLICATION

The MQV1394e combines the MQ Series LF/MF/HF components into a full-range, single-enclosure loudspeaker. It is horizontally configured for arraying in vertical columns. This arrangement is typically used in sports arenas and other venues where the array must address wide, vertical audience angles. The MF/HF horns in the MQV1394e feature a rigid but well-damped construction using wood veneer backed by structural foam. A no-compromise design means the mid and high frequency horns are truly large enough to provide optimal pattern control throughout each passband.

Application Usage: Install

Houses of Worship	Auditoriums
Theatres	Arenas
Performing Arts Centers	Stadiums

PERFORMANCE

Frequency Response	
±3 dB	70 Hz to 15 kHz
-10 dB	50 Hz
Axial Sensitivity (dB SPL, 1 Watt @ 1m)	
LF	95
MF/HF	108
MF	109
HF	106
Impedance (Ohms)	
LF	8
MF/HF	8
MF	8
HF	8
Power Handling, AES Standard (Watts)	
LF	550
MF/HF	400
MF	400
HF	150

Calculated Maximum Output (dB SPL @ 1m)	
LF Peak/Long Term	128/122
MF/HF Peak/Long Term	140/134
MF Peak/Long Term	141/135
HF Peak/Long Term	134/128
Nominal Coverage Angle, -6 dB Points (degrees)	
Horizontal	90
Vertical	40
Recommended High-Pass Frequency	
24 dB/Octave	50 Hz

PHYSICAL

LF Subsystem	1x 15-in woofer	
MF Subsystem	1x 10-in horn loaded cone	
HF Subsystem	2-in exit/3-in voice coil compression driver on constant directivity horn	
Configuration	Three-way, full range	
Powering	Bi- or Tri-amplified	
Enclosure Materials	Exterior grade Baltic birch plywood	
Finish	Wear-resistant textured black paint	
Connectors	Terminal barrier strip	
Suspension Hardware	16x 3/8"-16 threaded mounting points (4 each on top, bottom and sides)	
Grille	Powder coated perforated steel	
Dimensions	**inches**	**millimeters**
Height (front)	26.65	677
Height (rear)	15.3	389
Width	56.25	1429
Depth	25.59	650
Trapezoid Angle	12.5 Degrees per Side	
Weights	**pounds**	**kilograms**
Net Weight	215	97.7
Shipping Weight	240	109.1

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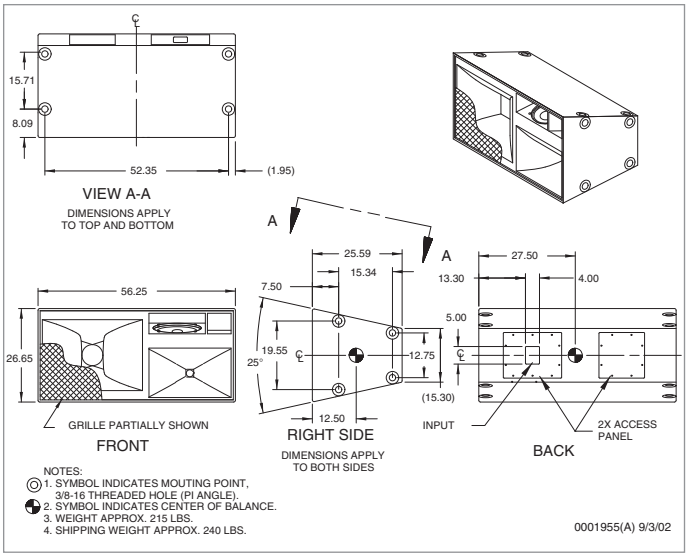
SPECIFICATIONS MQV1394e

DIMENSIONAL DRAWING



Manufacturing tolerances are +/-0.13 and +/-1°

A & E SPECIFICATIONS

The 3-way full-range loudspeaker shall incorporate a 15-in slot-loaded woofer, a 10-in MF cone with Radial Phase Plug™, and a 2-in exit/3-in diaphragm HF compression driver. The MF and HF devices shall be loaded on horns that provide a nominal 90° x 40° beamwidth. An internal passive crossover network shall offer either bi- or tri-amplified operation, configurable via jumpers on the input panel.

System frequency response shall vary no more than 63 dB from 70 Hz to 15 kHz measured on axis. The LF section shall produce a sound pressure level of 95 dB SPL on axis at 1 meter with a power input of 1 watt, and shall be capable of producing a peak output of 128 dB SPL on axis at 1 meter. The LF section shall handle 550 watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 ohms.

When operated in bi-amplified mode, the MF/HF section shall produce a sound pressure level of 108 dB SPL on axis at 1 meter with a power input of 1 watt, and shall be capable of producing a peak output of 140 dB SPL on axis at 1 meter. The MF/HF section shall handle 400 watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 ohms.

When operated in tri-amplified mode, the MF section shall produce a sound pressure level of 109 dB SPL on axis at 1 meter with a power input of 1 watt, and shall be capable of producing a peak output of 141 dB SPL on axis at 1 meter. The MF section shall handle 400 watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 ohms. The HF section shall produce a sound pressure level of 106 dB SPL on axis at 1 meter with a power input of 1 watt, and shall be capable of producing a peak output of 134 dB SPL on axis at 1 meter. The HF section shall handle 150 watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 ohms.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of exterior grade Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in wear-resistant textured black paint. Input connectors shall be a terminal strip. A total of 16x 3/8”-16 threaded mounting/suspension points (4 each top, bottom, and sides) shall be provided. The front of the loudspeaker shall be covered with a powder coated perforated steel grille.

The 3-way full-range loudspeaker shall be the EAW model MQV1394e.

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