SPECIFICATIONS MQV2394e

FEATURES

- Full-range, 3-way system
- 2x 15-in LF; 2x 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 dual, slot-loaded 15-in woofers, dual, horn-loaded 10-in MF cones 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 MQV2394e 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. Dual LF and MF components produce greater output than MQV1300 series products. The MF/HF horns in the MQV2394e 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	72 Hz to 15 kHz
-10 dB	50 Hz
Axial Sensitivity (dB SPL, 1 Watt @ 1m)	
LF	97
MF/HF	107
MF	110
HF	106
Impedance (Ohms)	
LF	4
MF/HF	4
MF	4
HF	8
Power Handling, AES Standard (Watts)	
LF	1200
MF/HF	800
MF	800
HF	150

Calculated Maximum Output (dB SPL @ 1m)	
LF Peak/Long Term	134/128
MF/HF Peak/Long Term	142/136
MF Peak/Long Term	145/139
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	2x 15-in, vented
MF	2x 10-in horn loaded cone, Radial Phase Plug™
HF	2-in exit/3-in diaphragm 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)	36.71	932
Height (rear)	25.36	644
Width	56.25	1429
Depth	25.59	650
Trapezoid Angle	12.5 Degrees per Side	

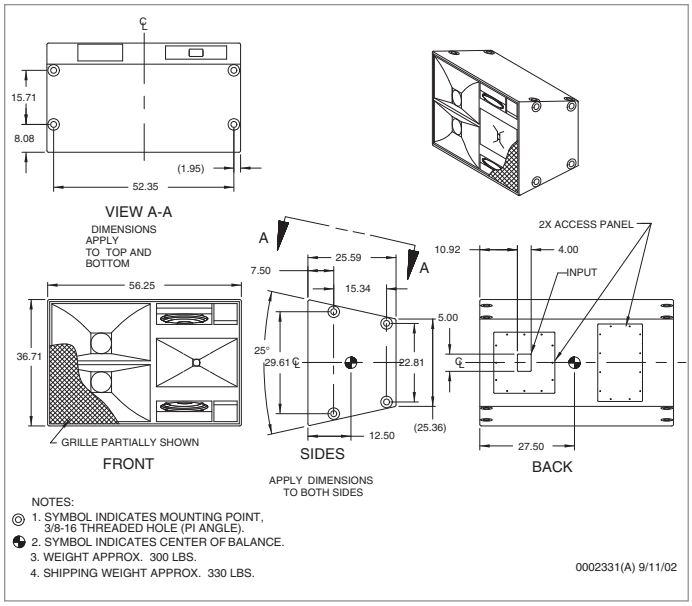
Weights	**pounds**	**kilograms**
Net Weight	300	136.4
Shipping Weight	330	149.7

One Main Street, Whitinsville, MA 01588 508 234 6158 Toll Free 800 992 5013 FAX 508 234 8251 info@eaw.com www.eaw.com

MQV2394e/0002693/002/2 pp October 2003 Printed in USA

SPECIFICATIONS MQV2394e

DIMENSIONAL DRAWING



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

A & E SPECIFICATIONS

The 3-way full-range loudspeaker shall incorporate two 15-in slot-loaded woofers, two 10-in MF cones 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 97 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 LF section shall handle 1200 watts of amplifier power (AES Standard) and shall have a nominal impedance of 4 ohms.

When operated in bi-amplified mode, the MF/HF section shall produce a sound pressure level of 107 dB SPL on axis at 1 meter with a power input of 1 watt, and shall be capable of producing a peak output of 142 dB SPL on axis at 1 meter. The MF/HF section shall handle 800 watts of amplifier power (AES Standard) and shall have a nominal impedance of 4 ohms.

When operated in tri-amplified mode, the MF section shall produce a sound pressure level of 110 dB SPL on axis at 1 meter with a power input of 1 watt, and shall be capable of producing a peak output of 145 dB SPL on axis at 1 meter. The MF section shall handle 800 watts of amplifier power (AES Standard) and shall have a nominal impedance of 4 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 MQV2394e.

One Main Street, Whitinsville, MA 01588 508 234 6158 Toll Free 800 992 5013 FAX 508 234 8251 info@eaw.com www.eaw.com

MQV2394e/0002693/002/2 pp October 2003 Printed in USA