



SPECIFICATIONS MQ1312

FEATURES

- Low frequency loudspeaker system
- Optimized for permanent installation only
- 3x direct radiating 12-in woofers
- Optimized to array with MQ1364, MQ1366 and MQ1394

DESCRIPTION

The new MQ Series represents the next generation of permanent installation loudspeaker systems. The Series comprises matched sets of mid/high and low frequency enclosures that enjoy complementary dimensions and trapezoid angles to facilitate the creation of optimized-coverage arrays. The MQ1312 uses three direct radiating 12-in woofer cones in an optimally tuned, vented enclosure.

APPLICATION

The MQ1312 low frequency module works with the MQ1364, MQ1366 and MQ1394 mid/high modules to create arrays for use in a wide variety of permanently installed applications.

The most common array configuration is 2x MQ1364's or MQ1366's separated by a single MQ1312. In such an array, a certain amount of splay must be provided to achieve optimal coverage.

When arraying 2x MQ1394's separated by a single MQ1312, the modules should be tight packed to achieve optimal coverage. This provides an excellent center channel array for large, fan-shaped venues that use an L/C/R configuration.

All MQ Series enclosures feature a comprehensive system of 3/8"-16 threaded mounting points for maximum flexibility when suspending arrays overhead.

Applications include:

Large Houses of Worship	Arena
Stadiums	Theater
	Performing Arts Center

PERFORMANCE

Frequency Response (1 W @ 1m)

±3 dB	50 Hz to 1.6 kHz
-10 dB	40 Hz

Axial Sensitivity (dB SPL, 1 Watt @ 1m)

LF	100
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Impedance (Ohms)

LF	3x 8
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Power Handling, AES Standard (Watts)

LF	1500
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Calculated Maximum Output (dB SPL)

LF Peak	137.8
LF Long Term	131.8



Nominal Coverage Angle/-6 dB points (degrees)

Horizontal	160
Vertical	60

Recommended High-Pass Frequency

24 dB/Octave 40 Hz

PHYSICAL

Configuration	Dedicated low frequency loud speaker
LF Subsystem	3x 12-in woofers
Cabinet Type (shape)	Trapezoid
Enclosure Materials	Baltic birch plywood
Finish	Black polyurethane
Connectors	6-terminal barrier strip & 2x Neutrik NL4 Speakon
Suspension Hardware	(16) 3/8"-16 threaded mounting suspension points (4 each top, bottom and sides)
Grille	Powder coated perforated steel

Dimensions	inches	millimeters
	Height	40 1016
Width (front)	24	610
	Width (rear)	12.75 324
Depth	21	533
Trapezoid Angle	30°	

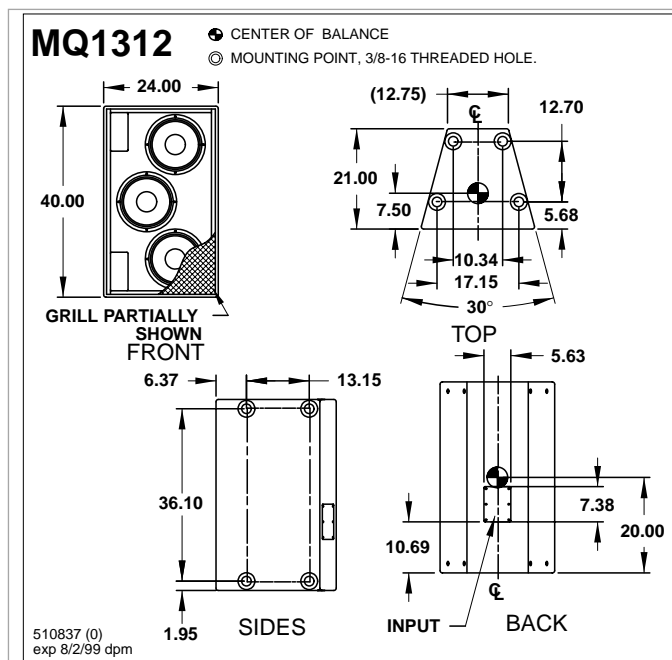
Weights	pounds	kilograms
	Net Weight	125 56.9
Shipping Weight	131	56.6





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DIMENSIONAL DRAWING



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

A & E SPECIFICATIONS

The low frequency loudspeaker systems shall incorporate 3x 12-in LF transducers. The LF drivers shall be mounted in separate vented subenclosures tuned for optimum low frequency response.

System frequency response shall vary no more than ± 3 dB from 50 Hz to 1600 Hz measured on axis. The loudspeaker shall produce a Sound Pressure Level (SPL) of 100 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 137.8 SPL on axis at 1 meter. The loudspeaker shall handle 1500 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 3x 8 Ohms. The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of 1/2-in thickness void-free cross-grain-laminated Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in black polyurethane. Input connectors shall be a 6-terminal barrier strip and 2x Neutrik NL4 Speakon with connections as follows (LF1 is top-most driver, LF3 is lowest):

	NL4 (left)	NL4 (right)
Pins 1 +/-	LF1 +/-	LF3 +/-
Pins 2 +/-	LF2 +/-	LF4 N/C

A total of sixteen 3/8"-16 threaded mounting/suspension points (4 each top, bottom, sides) shall be provided. The front of the loudspeaker shall be covered with a powder coated perforated steel grille.

The low frequency loudspeaker shall be the EAW model MQ1312.

