# SPECIFICATIONS MQTD415

## DESCRIPTION

A unique 2 way bass system employing Tuned Dipolar Array Technology. Includes 2x 15" Woofers (vented) and 2x 12" woofers (sealed) in a trapezoidal enclosure.

## APPLICATION

The MQTD415 uses patented Tuned Dipolar Array (TDA) Technology to achieve unprecedented LF directivity in the vertical plane without enormous horns or baffles. The compact, high output LF system works with MQ Series mid/hig modules to create true 3-way arrays in large format installations. A powerful tool where LF directivity is required. Six year warranty.

Applications include:

Stadiums Arenas Dance Clubs
Theaters Performing Arts Centers
Large Houses of Worship

## PERFORMANCE

| | |
|---|---|
| **Frequency Response (1 Watt @ 1m)** | |
| ±3 dB | 48 Hz to 300 Hz |
| -10 dB | 38 Hz |
| **Axial Sensitivity (dB SPL, 1 Watt @ 1m)** | |
| 15-in | 101 |
| 12-in | 101 |
| **Impedance (Ohms)** | |
| 15-in | 2x 8 |
| 12-in | 2x 8 |
| **Power Handling, AES Standard (Watts)** | |
| 15-in | 1600 |
| 12-in | 1000 |
| **Calculated Maximum Output (dB SPL)** | |
| 15-in Peak | 139.0 |
| 12-in Peak | 137.0 |
| 15-in Long Term | 133.0 |
| 12-in Long Term | 131.0 |
| **90 Degreee Off -Axis Rejection** | |
| Vertical | 10-12dB Attenuation 110-300 Hz |

## PHYSICAL

| | | | |
|---|---|---|---|
| LF Subsystem | 2x 15-in, vented<br>2x 12-in, sealed | | |
| Configuration | Dedicated LF tuned dipolar array | | |
| Powering Mode | Bi-amplified | | |
| Cabinet Type (shape) | Trapezoidal | | |
| Enclosure Materials | Baltic birch plywood | | |
| Finish | Wear-resistant textured black paint | | |
| Connectors | 2x 4-Terminal barrier strip | | |
| Suspension Hardware | (16) 3/8"-16 threaded mounting points (4 each top, bottom, and sides) | | |
| Grille | Powder coated perforated steel | | |
| **Dimensions** | | **inches** | **millimeters** |
| Height | | 54.00 | 1372 |
| Width (front) | | 24.0610 | |
| Width (rear) | | 12.75 | 324 |
| Depth | | 21.0533 | |
| Trapezoid Angle | | 15° | |
| **Weights** | | **pounds** | **kilograms** |
| Net Weight | | 209 94.8 | |
| Shipping Weight | | 234 106.1 | |

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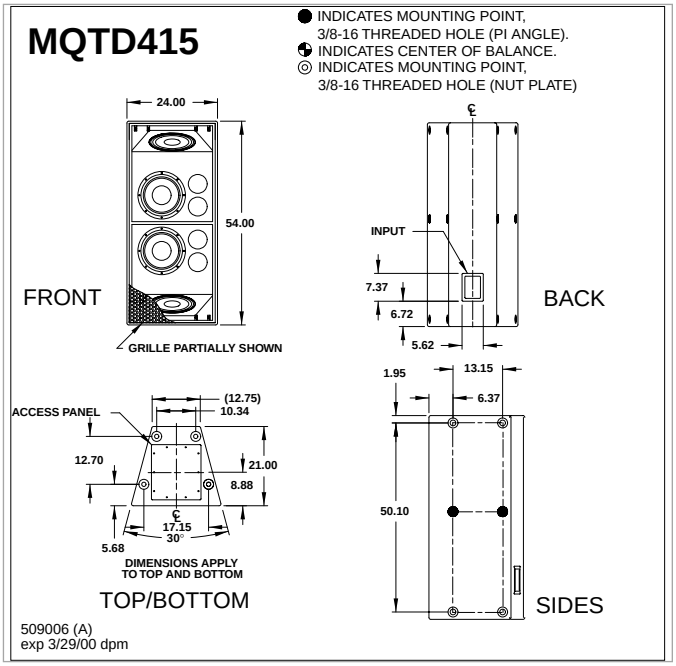
## DIMENSIONAL DRAWING




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

## A & E SPECIFICATIONS

The low frequency loudspeaker systems shall incorporate 2x 15-in plus 2x 12-in LF transducers. Each driver pair shall be spaced so as to create a tuned dipolar array. The driver pairs shall require an active crossover at 145 Hz, 24 dB/octave. The system shall provide 10-12 dB attenuation 90° off axis from 110 Hz to 300 Hz.

System frequency response shall vary no more than ±3 dB from 48 Hz to 300 Hz measured on axis. The 15-in driver pair shall produce a Sound Pressure Level (SPL) of 101 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 139 SPL on axis at 1 meter. The 15-in driver pair shall handle 1600 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 2x 8 Ohms.

The 12-in driver pair shall produce a Sound Pressure Level (SPL) of 101 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 SPL on axis at 1 meter. The 12-in driver pair shall handle 1000 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 2x 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 wear-resistant textured black paint. Input connectors shall be dual four-terminal barrier strips. A total of 16 3/8"-16 threaded mounting 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 low frequency loudspeaker shall be the EAW model MQTD415.

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