



TECHNICAL SPECIFICATIONS MQV1364

DESCRIPTION

The MQV Series is part of the next generation of permanent installation loudspeakers. Using VA4 Technology developed for the KF700 series, the MQV range replaces the ASV range of virtual array systems.

The MQV1364 uses a single, direct radiating 15-inch woofer in an optimally vented enclosure.

A single, horn loaded 10-inch midrange cone with a special geometry is used which produces a time coherent wavefront through the upper portion of the midrange that is critical to vocal articulation. A phase plug with radial slots then serves to reduce the mechanical resistance of the subsystem without affecting the directivity of the source, allowing flawless vertical arraying of multiple MQV modules.

A high power 2 inch exit/75mm voice coil compression driver is mounted on a constant directivity horn for consistent, accurate dispersal of HF information.



APPLICATIONS

The MQV1364 is engineered as a full range component for very large format arrays and is an effective tool in large-scale permanent installations. Comprehensive mounting points allow for flexible installation.

Applications include:

- Large Church
- Large Arenas
- Stadiums

DESCRIPTIVE DATA

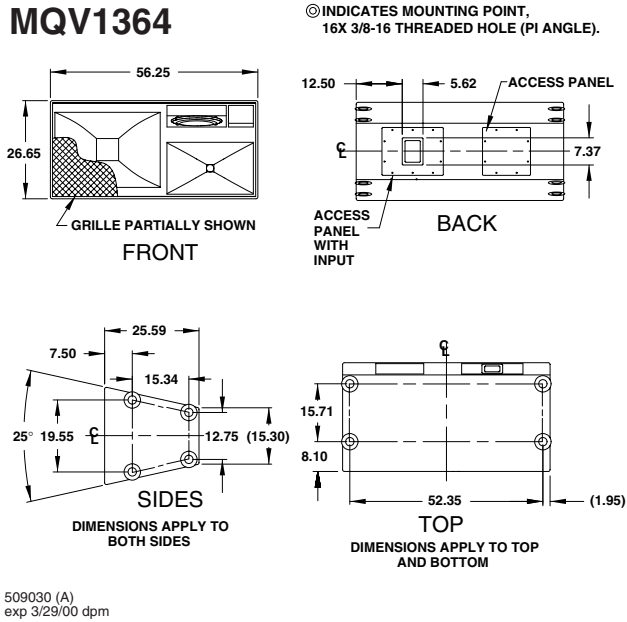
| | | |
|----------------------|-------------------------------------------------------------------------|--------------------|
| LF Subsystem | 1x 15-in Woofer | |
| MF Subsystem | 1x 10-in Horn Loaded Cone | |
| HF Subsystem | 2-in Exit Compression Driver on Constant Directivity Horn | |
| Configuration | Three-way, Full Range | |
| Powering | Triamplified | |
| Cabinet Type (shape) | Trapezoid | |
| Enclosure Materials | Baltic Birch Plywood | |
| Finish | Wear-resistant Textured Black Paint | |
| Connectors | 1x 6-Terminal Barrier Strip & 1x Neutrik NL8 Speakon | |
| Suspension Hardware | (16) 3/8"-16 Threaded Mounting Points (4 each on top, bottom and sides) | |
| Grill | 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 | 97.5 |
| Shipping Weight | 240 | 108.9 |





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DIMENSIONAL DRAWING



NOMINAL DATA

Frequency Response

| | |
|--------|-----------------|
| ±3 dB | 50 Hz to 16 kHz |
| -10 dB | 34 Hz |

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

| | |
|----|-----|
| LF | 97 |
| MF | 109 |
| HF | 113 |

Impedance (Ohms)

| | |
|----|---|
| LF | 8 |
| MF | 8 |
| HF | 8 |

Power Handling, AES Standard (Watts)

| | |
|----|-----|
| LF | 550 |
| MF | 400 |
| HF | 200 |

Calculated Maximum Output (dB SPL @ 1m)

| | |
|--------------|-------|
| LF Peak | 130.4 |
| MF Peak | 141.0 |
| HF Peak | 142.0 |
| LF Long Term | 124.4 |
| MF Long Term | 135.0 |
| HF Long Term | 136.0 |

Nominal Coverage Angle, -6 dB Points (degrees)

| | |
|------------|----|
| Horizontal | 60 |
| Vertical | 45 |

Recommended High-Pass Frequency

| | |
|--------------|------|
| 24 dB/Octave | 35Hz |
|--------------|------|

ARCHITECTURAL SPECIFICATIONS

The three-way full range loudspeaker system shall incorporate a 15-in woofer (vented), a 10-in cone MF transducer, and a 2-in exit compression driver HF transducer.

The MF driver shall be loaded into a midrange horn constructed of 3mm birch plywood reinforced with high density polyurethane foam. The MF horn shall incorporate a radial phase plug. The HF driver shall be loaded on constant directivity horn with a nominal coverage pattern of 60° (h) x 45° (v).

System frequency response shall vary no more than ±3 dB from 50 Hz to 16 kHz measured on axis. The midrange frequency section shall produce a Sound Pressure Level (SPL) 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 SPL on axis at 1 meter. The high frequency section shall produce a Sound Pressure Level (SPL) of 113 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 SPL on axis at 1 meter. The midrange frequency section shall handle 400 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms. The high frequency section shall handle 200 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 15mm 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 1x 6-terminal barrier strip and one Neutrik NL8 Speakon. A total of sixteen 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 grill.

The three-way full range loudspeaker shall be the EAW model MQV1364.