TECHNICAL SPECIFICATIONS MQV1366

FEATURES

- Full Range VA4™ loudspeaker system
- Optimized for permanent install only
- Direct radiating 15-inch woofer in optimally vented enclosure
- Horn loaded 10-inch cone with VA4™ phase plug
- 2-inch exit/75mm voice coil compression driver on constant directivity horn

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 MQV1366 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 MQV1366 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 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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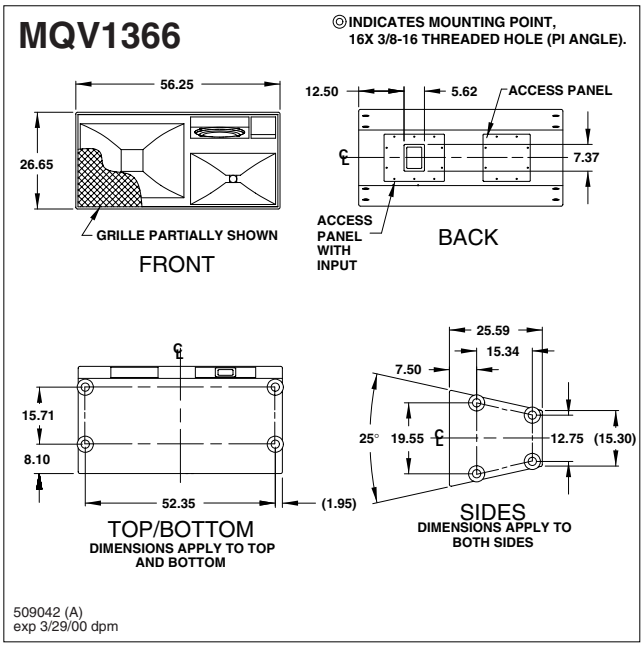
DIMENSIONAL DRAWING



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	112
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	141.0
LF Long Term	124.0
MF Long Term	135.0
HF Long Term	135.0
Nominal Coverage Angle, -6 dB Points (degrees)	
Horizontal	60
Vertical	60
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 60° (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 112 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 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 MQV1366.

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