TECHNICAL SPECIFICATIONS KF860

DESCRIPTION

A 3-way triamp full range system in a trapezoidal vertically arrayable enclosure. Includes 2x 15-in woofers ("tuned" for dipolar directivity), 2x horn-loaded 10-in midrange cones and 2x 2-in exit compression drivers on separate 60 x 30 constant directivity horns.

APPLICATIONS

The KF860 Virtual Line Array module is engineered for use in vertical arrays of no less than three and as many as 12 units. DSP-driven Tuned Dipolar Array effects create outstanding off-axis rejection to 100 Hz and below. Unique rigging system provides a new level of accuracy and repeatability. The system of choice for televised live events. Six year warranty.

Applications include:

Major Televised Events
Concert Tours

DESCRIPTIVE DATA

Part Number	999274
Product Group	V
LF Subsystem & Loading	2x 15-in, Angled Baffles
MF Subsystem & Loading	2x 10-in Cone, Horn Loaded
HF Subsystem & Loading	2x 2-in Exit Compression Driver on Constant Directivity Horn
System Configuration	3-way, Full Range
Powering Configuration(s)	Triamplified via MX 8600 Processor
Recommended High-Pass Frequency (24 dB/Octave)	30Hz
Cabinet Type (shape)	Horizontal Trapezoidal
Enclosure Materials	Baltic Birch Plywood
Finish	Black Catalyzed Polyurethane
Connectors	One each male and female AP6
Grill	Vinyl Coated Perforated Steel

NOMINAL DATA

Frequency Response (Hz)	
±3 db	50Hz to 17kHz
-10 dB	40Hz
Axial Sensitivity (dB SPL/1 Watt/1m)	
LF	102
MF	112
HF	115

Three KF860's shown in an array with a KF861.

Impedance (Ohms)		
LF	4	
MF	4	
HF	5	
Power Handling (Watts)		
LF AES Standard	2000	
MF AES Standard	800	
HF AES Standard	400	
Calculated Maximum Output (dB SPL, @ 1m)		
LF Peak	141.0	
MF Peak	147.0	
HF Peak	147.0	
LF Long Term	135.0	
MF Long Term	141.0	
HF Long Term	141.0	
Nominal Coverage Angle / -6 dB points (degrees)		
Horizontal	60	
Vertical	30	
Dimensions	**inches**	**millimeters**
Height (front)	18.5	470
Height (rear)	12.875	327
Width	72	1829
Depth	32	813
Trapezoid Angle	5 degrees per side	
Weights	**pounds**	**kilograms**
Net Weight	363	165.2
Shipping Weight	375	170.6

EAW
EASTERN ACOUSTIC WORKS
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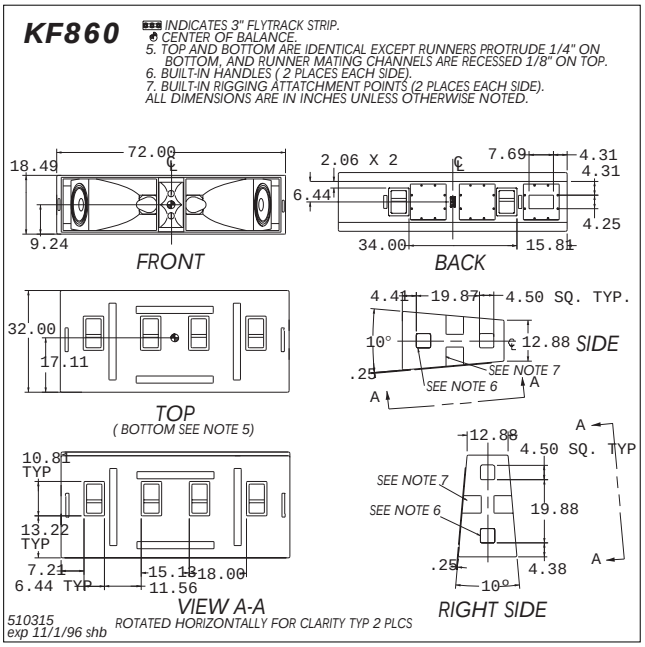
 • PUB# KF860-888053 (A)/2 pp/1/29/99 • Printed In USA

DIMENSIONAL DRAWING



SERVICE ITEMS

LF: Complete Cone Dirver	
EAW Part No.	804036
MF: Complete Cone Driver	
EAW Part No.	804022
HF: Complete Compression Driver/Tweeter	
EAW Part No.	803011
Filter/Crossover Network: Complete Assembly	
EAW Part No.	201431

ARCHITECTURAL SPECIFICATIONS

The three-way full range loudspeaker systems shall incorporate 2x 15-in LF transducers, 2x 10-in cone MF transducers and 2x 2-in exit compression driver HF transducer.

The LF drivers shall be separated by a “tuned” distance that uses the Tuned Dipolar Array effect to achieve optimal low frequency pattern control. Each 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 phase/displacement plug. Each HF driver shall be loaded on a constant directivity horn with a nominal coverage pattern of 60° (h) x30° (v).

System frequency response shall vary no more than ±3 dB from 50 Hz to 17 kHz measured on axis. The low frequency section shall produce a Sound Pressure Level (SPL) of 102 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. It shall handle 2000 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 4 Ohms. The midrange 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 147 SPL on axis at 1 meter. It shall handle 800 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 4 Ohms. The high frequency section shall produce a Sound Pressure Level (SPL) of 115 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 147 SPL on axis at 1 meter. It shall handle 400 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 5 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 black catalyzed polyurethane. Input connectors shall be one each male and female AP6. The enclosure shall include oval steel tubing (one tube on each side) that accepts steel linking plates. The plates shall attach to the steel tubing with quick-release pins which shall be included. Sufficient precisely aligned pin holes shall be placed in the steel tubing and linking plates to allow for a variety of arraying angles and spacing. The front of the loudspeaker shall be covered with a vinyl coated perforated steel grill backed with open cell foam to protect against dust.

The three-way full range loudspeaker shall be the EAW model KF860.

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