



SPECIFICATION SHEET OVERVIEW

INTRODUCTION

EAW's specification sheets contain a wealth of information and data. The intent is to assist both designers and buyers in their decision-making about what product to use and how to use it.

SPECIFICATION CRITERIA

To be meaningful, specifications should satisfy the various needs of customers, users, engineering, marketing and sales:

1. Relate to "real world" performance.
2. Provide information for integration with the rest of the audio system.
3. Be comparable to the specifications of other products.
4. Satisfy the needs of sales and marketing to successfully present products.
5. Provide accurate representations of measured performance.
6. Provide appropriate data, with sufficient resolution and accuracy for the above purposes.

Included in the specification sheets are extensive notes that explain what was measured, the units of measurement, the measurement conditions, the measurement equipment, and how specifications are determined from the measured data.

WHAT ARE SPECIFICATION SHEETS FOR?

Professional loudspeaker specification sheets are used mostly for two purposes.

1. Comparison to other loudspeaker products
2. Predictions about performance in actual use

Comparisons

Acoustical performance is usually a primary focus for comparison purposes. Unfortunately, there are many possible procedures and methods for measuring and processing acoustical data. Unless these are known, comparing specifications at face value may be inaccurate or incorrect.

Predictions

Typically a loudspeaker specification sheet has a section listing "one-number" specifications, such as frequency response, beamwidth, and impedance. In almost all cases, these singular numbers do not fully describe a loudspeaker's performance. This is because most of these parameters vary with frequency and/or with program content. At best, performance predictions using the one-number specifications are only approximate. One-number specifications are most useful for generally classifying loudspeakers within a performance range rather than for accurate performance predictions. Graphical data provides more appropriate details for predictive purposes.

Sound Quality

Sometimes specifications are used in an attempt to evaluate sound quality. Without elaboration, it can be stated that sound quality cannot be determined from a specification sheet.

GOALS FOR SPECIFICATION SHEETS

Some of the specific goals for the content and format of EAW's specification sheets are:

1. *S3 (System Specification Standard)*: A document detailing definitions, methods, and procedures for generating the specifications.
2. Scientific accuracy: Terminology, data formats, and units of measurement that are scientifically accurate, regardless of audio industry practices.
3. Elimination of human errors: Automation of the process from producing engineering designs and gathering acoustic data to generating specification sheets.
4. Elimination of redundancy: This eliminates errors and inconsistencies in copying and maintaining the same information in several places.
5. Consistent format: Providing the same information and way of stating it for all types of loudspeakers to make product comparisons easier.
6. Display of frequency-dependent data: Inclusion of detailed graphs to show both physical and performance characteristics best represented by graphical means.
7. Stylistic features: Using fonts and graphics that provide good readability, quality display on various computer platforms, and high quality print copies.
8. A & E Specifications: Architects & Engineers specifications no longer appear on EAW's specifications sheets. This eliminates redundancy as well as the archaic A & E format traditionally used by the audio industry.
9. Up-to-date publishing format: Use of Adobe® Acrobat® as the primary publishing format, allowing color to be used to enhance the information.

A TOUR OF EAW's SPECIFICATION SHEET

BASIC LAYOUT

- Page 1: Overview and nominal specifications
- Page 2: Enclosure details
- Page 3: Graphs of performance
- Page 4: Electrical information and notes

DETAILS

PAGE 1

Photo

This is typically a perspective photograph of the product showing its visual characteristics.

Features

This section highlights key design attributes that distinguish the product.

Description

This section highlights the product's purpose and function. It is intended to provide narrative information about capabilities, performance, applications, and usability that are neither obvious nor detailed elsewhere on the specification sheet. Typical applications are listed for which the product has been designed and where it is commonly used. However, the nature of loudspeakers means other uses are certainly possible.

Configuration

This is a tabular listing of the loudspeaker's electro-acoustic design. It includes:

Subsystems: The passbands employed in the design.

Transducer: Driver complement for each subsystem.

Loading: The acoustical loading for the transducers.

Operating Mode: The user-selectable operating modes.

Amplifier Channels: For each Operating Mode the number of channels needed and Subsystem for each.

Crossover points: Indicated by a comma “,” between passbands.

External Signal Processing: User-supplied signal processing required for the loudspeaker in order to achieve the specified performance.

KF730 Specifications group · S

3-WAY FULL-RANGE BI-AMP (passive MF/HF filter)

Performance is to a single 1% THD performance as determined using the KF730 Series Low THD Full-Range Drivers for details.

CONFIGURATION	
Subsystem	Transducer
LF	2x 10 in cone
MF	2x 7 in cone
HF	2x 1 in w/ 1.75 in cone
	coil neodymium
	compression driver

Operating Mode	
Driver	Amplifier Channels
LF, MF, HF	External Signal Processing
	DSP w/ 2-way filters

PERFORMANCE	
Operating Range	80 Hz to 20 kHz
Nominal Beamwidth	110°
HF	110°
MF	12°

Axial Sensitivity (on-axis SPL)	
MF/HF	105 dB
LF	91 dB

Peak Sensitivity (on-axis SPL)	
MF/HF	112 dB
LF	92 dB

Input Impedance (ohms)	
Normal	16
Minimum	15.5 @ 500 Hz
High Pass	15.1 @ 200 Hz

Recommended High Pass Filter	
MF/HF	75 V
LF	100 V

Accelerated Life Test ¹	
MF/HF	300 hr @ 10 ohm
LF	700 hr @ 10 ohm

Calculated Axial Output Limit (on-axis SPL)	
Average	Peak
MF/HF	130 dB
LF	125 dB

ORDERING DATA	
Decomposer	Part Number
KF730 line array subwoofer	0006108
Optional accessories	
KF730S100 Fly Bar	0006095
Fly Bar Spacing Connector Pin - 2.8 inch	0006096
Spine Connector Pin - 3.5 inch	0006122
KF730 Case Cover	0006085

DESCRIPTION

The KF730 Series is a compact line array system that sets a performance benchmark above similar systems. It delivers 3-way, KF Series performance in a flexible, easy-to-use system that can deliver concert level output in an exceptionally wide range of venues. The KF730 is an excellent compact line array solution for applications such as houses of worship, corporate, A/V, theaters, trade ballrooms, and concert halls. The system is also ideal for supplemental coverage for larger line arrays, such as the KF730 Series. Such uses include audience side fill, stage to fill, delayed arrays for ballrooms, and stage/performance coverage.

One large MF/HF horn fills the entire face of the enclosure, better maintaining horizontal pattern control throughout the MF/HF passband. The curved aperture MF loading slots effectively move the MF acoustic center further into the room than physical space permits. The side-mounted LF drivers provide a forward-firing, figure eight type pattern. The drivers are spaced so that the LF beamwidth matches the MF through crossover.

The KF730s are sized to track-back friendly dimensions. The rigging system is fully compatible with the companion SB730 subwoofer.

1 To achieve best performance, the best external signal processing (ESDP) is recommended.
2 For recommendations on crossover topology see the KCF730, KCF730S, KCF730S100, KCF730S100S, KCF730S100S2, KCF730S100S3, KCF730S100S4, KCF730S100S5, KCF730S100S6, KCF730S100S7, KCF730S100S8, KCF730S100S9, KCF730S100S10, KCF730S100S11, KCF730S100S12, KCF730S100S13, KCF730S100S14, KCF730S100S15, KCF730S100S16, KCF730S100S17, KCF730S100S18, KCF730S100S19, KCF730S100S20, KCF730S100S21, KCF730S100S22, KCF730S100S23, KCF730S100S24, KCF730S100S25, KCF730S100S26, KCF730S100S27, KCF730S100S28, KCF730S100S29, KCF730S100S30, KCF730S100S31, KCF730S100S32, KCF730S100S33, KCF730S100S34, KCF730S100S35, KCF730S100S36, KCF730S100S37, KCF730S100S38, KCF730S100S39, KCF730S100S40, KCF730S100S41, KCF730S100S42, KCF730S100S43, KCF730S100S44, KCF730S100S45, KCF730S100S46, KCF730S100S47, KCF730S100S48, KCF730S100S49, KCF730S100S50, KCF730S100S51, KCF730S100S52, KCF730S100S53, KCF730S100S54, KCF730S100S55, KCF730S100S56, KCF730S100S57, KCF730S100S58, KCF730S100S59, KCF730S100S60, KCF730S100S61, KCF730S100S62, 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Performance

This is a tabular listing of the loudspeaker's acoustical and electrical performance specifications, including typical "one-number" specifications. Because the issues behind the specifications in this section are relatively complex, see "Specification Details" for particulars about the Performance specifications.

Ordering Data

This provides the model number, description, and part number used for sales orders. Normally, the listed part number is for the standard model finished in black. Contact EAW Sales Department for ordering information about optional colors or other product variations.

Optional Accessories

These are accessory items that can be used with the loudspeaker for certain applications. Typically, these include mounting hardware kits and transport accessories. Listed is the model number, description, and part number used for sales orders.

KF730 Specifications
group · S



3-WAY FULL-RANGE BI-AMP (passive MF/HF filter)

Performance for a single KF730 (bi-amp performance is determined using the KF730, except for 100W LF and LF+HF cases for details)

CONFIGURATION		
Subsystem	Processor	Loading
LF	2x 10 in cone	Phase Aligned™
MF	2x 7 in cone	Applicable
HF	2x 1 in soft, 1.75 in dome	Form-fitted
	0.5" tweeter	
	compression driver	

Operating Mode: Amplifier Channels: External Signal Processing
 MF/HF: MF/HF
 DSP w/2-way filters

PERFORMANCE

Operating Range: 70 to 20 kHz

Distortion:

THD	<1%
THD + LF	<1%

AXIAL SENSITIVITY (on-axis SPL)

MF/HF	105 dB	200 Hz to 20 kHz
LF	105 dB	80 Hz to 200 Hz

PEAK SENSITIVITY (on-axis SPL)

MF/HF	112 dB	20 Hz to 20 kHz
LF	102 dB	20 Hz to 20 kHz

INPUT IMPEDANCE (ohms): Nominal: 16; Minimum: 15.5 @ 250 Hz; Maximum: 15 @ 250 Hz

RECOMMENDED HIGH-PASS FILTER: High Pass: 18 Hz, 24 dB/octave

ACCESSED LIFE TEST: MF/HF: 75 V; LF: 130 V

Recommended Axial Load (on-axis SPL): Average: 120 dB; Peak: 125 dB

ORDERING DATA:

Model	Part Number
KF730 line array loudspeaker	0006108
Mounting hardware kit	0006004
12" diameter mounting pin, 3.2 mm	0006122
Space Connecting Pin, 3.2 mm	0006122
KF730 Case Pallet	0006005

FEATURES

- Highest output to size ratio for small format line arrays
- Large MF/HF horn and Phase Aligned™ LF drivers for exceptional 107° horizontal pattern in 160 Hz
- KF730 Hybrid auto-designs from arrays
- Frangible lightweight hardware at 20:1 ratio of strength to weight
- 10 cable mode allow wiring of KF730s with 2 amplifier channels

DESCRIPTION

The KF730 Series is a compact line array system that sets a performance benchmark above similar systems. It delivers 3-way KF Series performance in a flexible, easy-to-use system that can deliver consistent level output in an exceptionally wide range of venues. The KF730 is an excellent compact line array solution for applications such as houses of worship, corporate, A/V theaters, hotel ballrooms, and concert halls. The system is also ideal for supplemental coverage for larger line arrays, such as the KF700 Series. Such cases include audience side fill, stage top fill, delayed arrays for balconies, and stage/perforator coverage.

One large MF/HF horn fills the entire face of the enclosure, better maintaining horizontal pattern control throughout the MF/HF passband. The curved aperture MF shading aids effectively move the MF acoustic origin further into the horn than physical space permits. The side-mounted LF drivers project a forward-facing, figure-eight type pattern. The drivers are spaced so that the LF beamwidth matches the MF through midrange. The KF730s are sized to truck-pack friendly dimensions. The rigging system is fully compatible with the companion SBT30 subwoofer.

© 2011 Eastern Acoustic Works. The listed order of signal processing is not necessarily required.
 & The enclosure is not intended to be used in an application where it is subject to physical damage or abuse.

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 Model Number: KF730-01-01 Rev: August 2011

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Enclosure

This section details the mechanical specifications including the engineering CAD drawing for the finished product. Using standard drafting views, this drawing shows a full set of dimensions, enclosure hardware, center of gravity, finishes, weights, manufacturing tolerances, and more.

KF730 Specifications
group · S

ENCLOSURE

Material: Steel (not shown)

Finish: Silver (not shown) / Black (not shown) / Powder coated perforated steel

Color: Powder coated perforated steel



NOTES:

- TERMINAL BLOCK CENTER OF BALANCE
- TERMINAL BLOCK CENTER OF BALANCE
- SHIPPING WEIGHT APPROX. 18 LBS.

TOP: DIMENSIONS APPLY TO TOP AND BOTTOM

FRONT: GRILLE PARTIALLY SHOWN

RIGHT SIDE: DIMENSIONS APPLY TO BOTH SIDES

BACK: DIMENSIONS APPLY TO BOTH SIDES

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Performance Data

These are graphic plots of measured data showing performance that varies with frequency. For example, the horizontal and vertical Nominal Beamwidths are normally listed as single number specifications. Contrarily, the beamwidth graph shows how this parameter varies with frequency. Only the applicable graphs appear for each product.

 SYSTEM SPECIFICATION STANDARD

Page 4 of 5

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Graphs

Upper Left:

Frequency response with all signal processing for the main user-selectable Operating Mode.

Upper Right:

Frequency response with all signal processing for the alternate user-selectable Operating mode.

Center left:

Frequency response with no signal processing for each passband.

Center right:

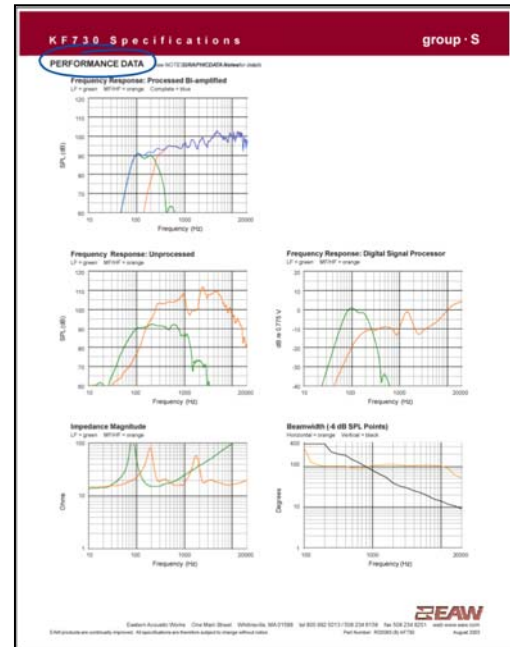
Frequency response of the Signal Processing (DSP) for each passband.

Lower left:

Impedance for each passband.

Lower right:

Horizontal and vertical beamwidths.



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Input Panel

This is the CAD drawing for the input panel showing the connectors, their wiring information, and any user controls.

Signal Diagram

This shows the basic signal connections for each user-selectable Operating Mode, including required signal processing and amplifier channels. Passive crossovers integral to the loudspeaker are also shown.

Notes

The Notes explain how the various specifications were determined. They list what was measured, the units of measurement, the measurement conditions, the measurement equipment, what was calculated from the measured data, and data tolerances. This information allows specifications to be compared to other loudspeakers with specifications similarly determined. Unless this information is known for a particular specification, such comparisons may result in incorrect conclusions.

Part Number

Found in the footer, the Part Number identifies the revision number of the specification sheet. Because specifications can and do change, this part number can be used to verify with EAW whether the sheet is the most up-to-date version.

