



# TECHNICAL SPECIFICATIONS KF300e

## DESCRIPTION

A 3-way full range system in a vented trapezoidal enclosure. Includes a 12-in woofer, a horn-loaded 7-in midrange cone and a 1-in exit compression driver on a 90 x 45 constant directivity horn. Powering mode is switchable: passive (3-way crossover) or biamplified (passive MF/HF crossover).

## APPLICATIONS

The KF300e adapts Virtual Array Technology to a compact arrayable enclosure. 3-way design dramatically improves the quality of vocal reproduction while the cone-driven midrange horn extends pattern control into the lower octaves. It provides high output, high definition coverage for permanent or portable applications. Universal suspension hardware features a flytrack with integral 3/8"-16 mounting/suspension points. Six year warranty.

Applications include:

Band PA	Ballroom Events
Corporate Events	Convention Centers
Small HOW's	Live Music Club

## DESCRIPTIVE DATA

Part Number	999012
Product Group	S
LF Subsystem & Loading	1x 12-in, Vented
MF Subsystem & Loading	1x 7-in Horn-Loaded Cone
HF Subsystem & Loading	1x 1-in Exit Compression Driver on Constant Directivity Horn
System Configuration	3-way, Full Range
Powering Configuration(s)	Switchable: Full Range (passive LF/HF crossover) or Biamplified
Controls (switches, knobs)	Powering Mode Switch
Recommended High-Pass Frequency (24 dB/Octave)	50Hz
Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Baltic Birch Plywood
Finish	Black Catalyzed Polyurethane
Connectors	2x Neutrik NL4 Speakon 1 each male and female AP4
Suspension Hardware	(6) 3-Position Flytracks with integral 3/8"-16 Threaded Mounting/Suspension Point (3 each top & bottom), (4) 3/8"-16 Threaded Mounting/Suspension points (2 per side), Recessed Cup for Standmount
Grill	Foam Backed Vinyl Coated Perforated Steel
Options	179001 Flyclip with ring 179002 Flyclip with hook

## NOMINAL DATA

Frequency Response (Hz)	
±3 db	70Hz to 20kHz
-10 db	50Hz



## Axial Sensitivity (dB SPL/1 Watt/1m)

Full Range	99
Biamped MF/HF	104
Biamped LF	99

## Impedance (Ohms)

Full Range	6
Biamped MF/HF	6
Biamped LF	6

## Power Handling, AES Standard (Watts)

Full Range Passive	500
Biamped MF/HF	300
Biamped LF	600

## Calculated Maximum Output (dB SPL, @ 1m)

Full Range Peak	132.0
Biamped MF/HF Peak	134.8
Biamped LF Peak	132.8
Full Range Long Term	126.0
Biamped MF/HF Long Term	128.8
Biamped LF Long Term	126.8

## Nominal Coverage Angle / -6 dB points (degrees)

Horizontal	90
Vertical	45

## Recommended Complementary Systems

Sub	SB330e
-----	--------

## Dimensions

	inches	millimeters
Height	27.5	699
Width (Front)	14.75	375
Width (Rear)	9.63	245
Depth	14.75	375
Trapezoid Angle	10 degrees per side	

## Weights

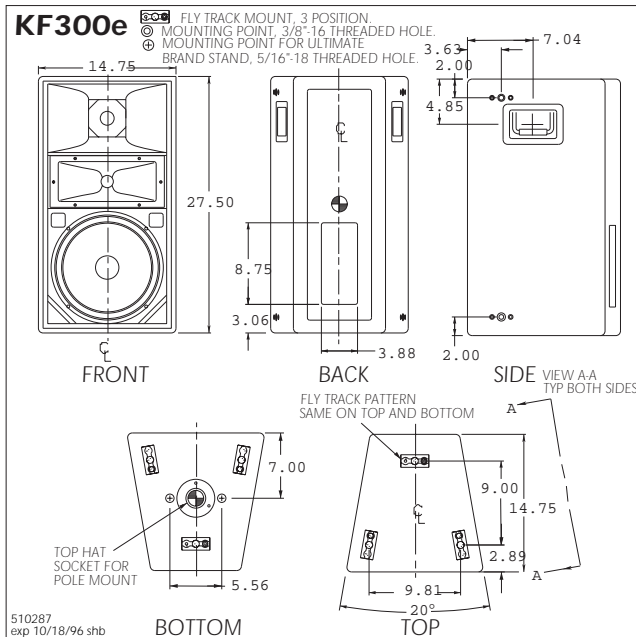
	pounds	kilograms
Net Weight	95	43.2
Shipping Weight	103	46.9





# TECHNICAL SPECIFICATIONS KF300e

## DIMENSIONAL DRAWING



## SERVICE ITEMS

<b>LF: Complete Cone Driver</b>	EAW Part No. 804031
<b>MF: Complete Cone Driver</b>	EAW Part No. 804005
<b>HF: Complete Compression Driver/Tweeter</b>	EAW Part No. 803007
<b>HF: Diaphragm Assembly</b>	EAW Part No. 251025
<b>Filter/Crossover Network: Complete Assembly</b>	EAW Part No. 225105

## ARCHITECTURAL SPECIFICATIONS

The three-way full range loudspeaker systems shall incorporate 12-in LF transducer, a 7-in cone MF transducer and a 1-in exit compression driver HF transducer.

The LF driver shall be mounted in a vented enclosure tuned for optimum low frequency response. 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 phase/displacement plug. The HF driver shall be loaded on constant directivity horn with a nominal coverage pattern of 90° (h) x 40° (v). An internal passive filter network shall provide fourth order acoustical crossover and system equalization.

System frequency response shall vary no more than  $\pm 3$  dB from 70 Hz to 20 kHz measured on axis. In passive mode, the loudspeaker shall produce a Sound Pressure Level (SPL) of 99 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 132 SPL on axis at 1 meter. It shall handle 500 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 6 Ohms.

In biamped mode, the low frequency section produce a Sound Pressure Level (SPL) of 99 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 132.8 SPL on axis at 1 meter. It shall handle 600 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 6 Ohms. In addition, the mid/high section in biamped mode shall produce a Sound Pressure Level (SPL) of 104 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 134.8 SPL on axis at 1 meter. The mid/high section in biamped mode shall handle 300 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 6 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 dual Neutrik NL4 Speakon plus one each male and female AP4. The system shall include a switch allowing it to be operated in biamp or passive powering mode. A total of six 3-position flytracks with integral 3/8"-16 threaded mounting/suspension points (3 each top and bottom) plus 4x 3/8"-16 threaded mounting/suspension points (2 per side) shall be provided. 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 KF300e.