



TECHNICAL SPECIFICATIONS KF695e

DESCRIPTION

A 3-way full range system in a vented trapezoidal enclosure. Includes a 15-in woofer in a wave guide cavity with ARC™ device, a horn-loaded 10-in midrange cone and a 2-in exit compression driver mounted coaxially in the wave guide cavity on a 90 x 40 constant directivity horn. Powering mode is switchable: biamplified (passive MF/HF crossover) or triamplified.

APPLICATIONS

The KF695e Virtual Array system's true 3-way design dramatically improves the quality of vocal reproduction while its cone-driven midrange horn and horn loaded woofer extend pattern control into the lower octaves. Universal suspension hardware (flytrack with integral 3/8"-16 mounting point) supports permanent or portable applications. Six year warranty.

Applications include:

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

DESCRIPTIVE DATA

Part Number	999020
Product Group	S
LF Subsystem & Loading	1x 15-in in a Wave Guide Cavity with ARC™ Device
MF Subsystem & Loading	1x 10-in Horn-Loaded Cone
HF Subsystem & Loading	1x 2-in Exit Compression Driver on Constant Directivity Horn
System Configuration	3-way, Full Range
Powering Configuration(s)	Switchable: Biamplified (passive MF/HF crossover) or Triamplified
Controls (switches, knobs)	Powering Mode Switch
Recommended High-Pass Frequency (24 dB/Octave)	45Hz
Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Baltic Birch Plywood
Finish	Black Catalyzed Polyurethane
Connectors	1 each male and female AP6 1 each male and female AP4
Suspension Hardware	(6) 3-Position flytrack with integral 3/8"-16 suspension points (3 each top and bottom) plus (5) 3/8"-16 threaded suspension points (2 per side, 1 on back)
Grill	Vinyl Coated Perforated Steel, Foam Backed
Options	179001 Flyclip with ring 179002 Flyclip with hook

NOMINAL DATA

Frequency Response (Hz)	
±3 db	65Hz to 17kHz
-10 dB	50Hz



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

Biamped MF/HF	107
LF	100
MF	107
HF	107

Impedance (Ohms)

Biamped MF/HF	8
LF	8
MF	8
HF	8

Power Handling, AES Standard (Watts)

Biamped MF/HF	400
LF	1000
MF	400
HF	200

Calculated Maximum Output (dB SPL, @ 1m)

Biamped MF/HF Peak	139.0
LF Peak	136.0
MF Peak	139.0
HF Peak	136.0
Biamped MF/HF Long term	133.0
LF Long Term	130.0
MF Long Term	133.0
HF Long Term	130.0

Nominal Coverage Angle / -6 dB points (degrees)

Horizontal	90
Vertical	40

Recommended Complementary Systems

Sub	SB600e/SB625P
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Dimensions

	inches	millimeters
Height	33.22	844
Width (Front)	25.63	651
Width (Rear)	12.75	324
Depth	19.75	502
Trapezoid Angle	23 degrees per side	

Weights

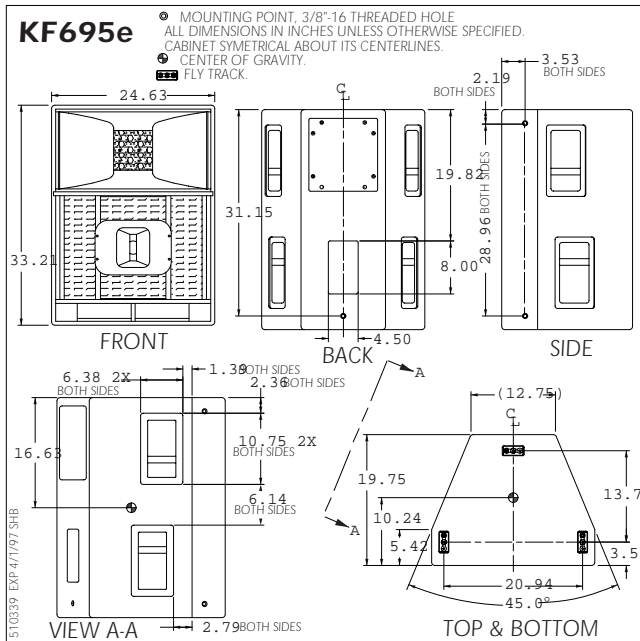
	pounds	kilograms
Net Weight	147	66.9
Shipping Weight	162	73.7





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DIMENSIONAL DRAWING



SERVICE ITEMS

LF: Complete Cone Driver	EAW Part No. 804036
MF: Complete Cone Driver	EAW Part No. 804022
HF: Complete Compression Driver/Tweeter	EAW Part No. 803010
HF: Diaphragm Assembly	EAW Part No. 251007
Filter/Crossover Network: Complete Assembly	EAW Part No. 201755

ARCHITECTURAL SPECIFICATIONS

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

The LF driver shall be mounted in a wave guide cavity for optimum low frequency directivity. 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 coaxially mounted in the woofer cavity and shall be loaded on a constant directivity horn with a nominal coverage pattern of 90° (h) x 40° (v). A device to absorb refracted HF energy shall be installed behind the HF section. An internal passive filter network shall provide fourth order acoustical crossover between the mid and high frequency sections in biamped mode and system equalization.

System frequency response shall vary no more than ±3 dB from 65 Hz to 17 kHz measured on axis. In biamped mode, the mid/high section shall produce a Sound Pressure Level (SPL) of 107 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 139 SPL on axis at 1 meter. It shall handle 400 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms. The LF section shall produce a Sound Pressure Level (SPL) of 100 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 136 SPL on axis at 1 meter. It shall handle 1000 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms.

In triamped mode, the low frequency and high frequency sections shall meet all biamped mode performance criteria. In addition, the midrange frequency section in triamped mode shall produce a Sound Pressure Level (SPL) of 107 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 139 SPL on axis at 1 meter. It shall handle 400 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall be rectangular 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 AP4 plus one each male and female AP6. The system shall include a switch allowing it to be operated in biamp or triamp powering mode. A total of six 3-position flytracks with integral 3/8"-16 threaded mounting points (3 each top and bottom) plus five 3/8"-16 threaded mounting points (2 per side, 1 back) 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 KF695e.