

TECHNI CAL SPECI FI CATI ONS **KF650e**

DESCRIPTION

A 3-way full range system in a vented trapezoidal enclosure. Includes a 15-in woofer in a wave guide cavity with APC™ device, a horn-loaded 10-in midrange cone and a 2-in exit compression driver mounted coaxially in the wave guide cavity on a 60 x 45 constant directivity horn. Powering mode is switchable: biamplified (passive MF/HF crossover) or triamplified.

APPLICATIONS

The KF650e 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. Sx year warranty.

Applications include:

Band PA Ballroom Events Corporate Events Convention Centers Large HOWs Live Music Gub

Part Number	999017	
Product Group	S	
LF Subsystem & Loading	1x 15-in in a Wave Guide Cavity with APC™	
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 Pange	
Powering Configuration(s)	Switchable: Biamplified (passive MF/HF crossover) or Triamplified	
Controls (switches, knobs)	Powering Mode Switch	
Pecommended High-Pass Frequency (24 dB/Oct ave)	45Hz	
Cabinet Type (shape)	Trapezoidal	
Enclosure Materials	Baltic Birch Plywood	
Finish	Black catalyzed polyurethane	
Connectors	1 each male and female AP4 1 each male and female AP6	

mounting/suspension points (3 each top and bottom) Gill Vinyl coated perforated steel, foam

backed

MX300i and MX800i 179001 Ryclip with ring Options

179002 Hydlip with hook

(6) 3-position flytracks with

integral 3/8"-16 threaded

NOMINAL DATA

Frequency Response (Hz)

Suspension Hardware

±3 db 65Hz to 17kHz

-10 dB 50Hz



Axial Sensitivity (dB SPL/1 Watt/1m)			
107	,		
100			
107			
107			
8			
8			
8			
8			
Power Handling, AES Standard (Watts)			
400			
1000			
400			
200			
Calculated Maximum Output (dB SPL, @ 1m)			
139.0			
136.0			
139.0			
136.0			
133.0			
130.0			
133.0			
130.0			
-6 dB po	ints (degrees)		
60			
45			
Recommended Complementary Systems			
SB528/ S	3B600e/SB625P		
inches	millimeters		
33.25	845		
19.75	502		
12.93			
	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		

19.75

140

145

pounds

502

63.7

66.0

kilograms

10 degrees per side

Depth

Trapezoid Angle

Shipping Weight

Net Weight

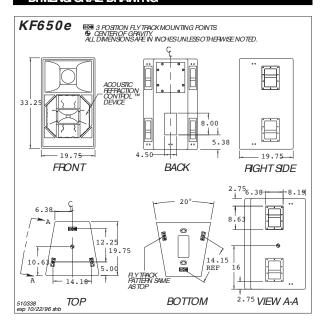
Weights





TECHNI CAL SPECI FI CATI ONS KF650e

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

Filter/ Crossover Network: Complete Assembly

EAW Part No. 202238

ARCHI TECTURAL SPECI FI CATI ONS

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 mounted coaxially within the woofer cavity and shall be loaded on a constant directivity horn with a nominal coverage pattern of 60° (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 Chms. 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 Chms.

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 Chms.

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 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 point (3 each top and bottom) 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 $\,$ KF650e.