SPECIFICATIONS KF755F

DESCRIPTION

The KF755F 3-way tri-amplified full range system is the downfill companion to the KF750F array module.

Since the large mid frequency horn contains both the high and low frequency subsystems, the overall package is just 31-in high. Still, the KF755F provides consistent wideband pattern control in both the vertical and horizontal planes.

The large MF horn loads a specially designed 10-in midrange cone whose geometry exactly matches the rear of its phase plug assembly. By developing the driver and phase plug as a single unit, pathlength discontinuities within the MF passband have been eliminated without compromising the directional qualities of the source as all previous phase plug designs have.

The 2-in exit/4-in voice coil HF compression driver is mounted on an asymmetrical 35° x 35° constant directivity horn mounted coaxially within the MF horn flare. Vertical coverage is 0° to -35°.

The KF755F's 15°-per-side trapezoidal enclosure features eight 4-position flytracks (four each front and rear) that accept industry-standard flyclips.

APPLICATION

The KF755F provides optimized downfill coverage below flown arrays or, when inverted, provides upfill balcony coverage from ground-stacked arrays when flying arrays are either not allowed or not desired.

At just 31-in tall and under 200 pounds per module, KF700 Series arrays are smaller, lighter, more efficient and, therefore, more powerful than those built with other systems. These smaller, lighter arrays are easier to fly, require less truck space and permit more open sight lines to cover any given venue.

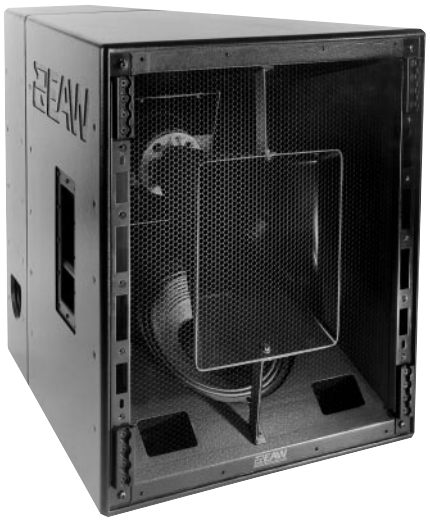
The KF750F works with a companion downfill module, the KF755F to provide full range nearfield coverage below the array. The KF755F's smooth power response produces remarkably even SPL levels throughout the coverage area, allowing it to be used as a stand-alone system when necessary in applications demanding that coverage pattern.

Applications include:

Concert Tours	Performing Arts Centers
Houses or Worship	Theaters

PERFORMANCE

Frequency Response (Hz)	
±3 dB	48 Hz to 18 kHz
-10 dB	30 Hz



Axial Sensitivity (dB SPL, 1 Watt @ 1m)	
LF	99
MF	108
HF	115
Impedance (Ohms)	
LF	8
MF	8
HF	8
Power Handling, (Watts Continuous)	
LF	600
MF	400
HF	200
Recommended High-Pass Filter	
24 dB/Octave	30 Hz
Calculated Maximum Output (dB SPL @ 1m)	
LF Peak/Long Term	132/126
MF Peak/Long Term	140/134
HF Peak/Long Term	144/138
Nominal Coverage Angles, -6 dB points (degrees)	
Horizontal	35
Vertical	35 (0 to -35)

PHYSICAL

Configuration	3-way, full range
Powering	Tri-amplified
LF Subsystem	12-in cone, vented
MF Subsystem	10-in cone, Radial Phase Plug™ asymmetrically horn-loaded
HF Subsystem	2-in Exit/4-in voice coil compression driver on asymmetrical high Q horn
Coverage Angles	35° (h) x 35° (v, 0° to -35°)

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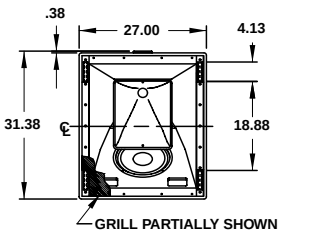
KF755F/2 pp October 2001 Printed in USA

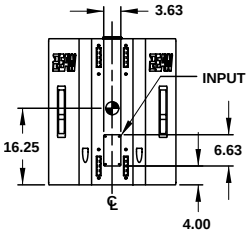
SPECIFICATIONS KF755F

DIMENSIONAL DRAWING

CABINET TO BE SYMMETRICAL ABOUT CENTERLINE DESIGNATIONS.
INDICATES CENTER OF BALANCE.
INDICATES FLY TRACK MOUNTING POINTS.



FRONT



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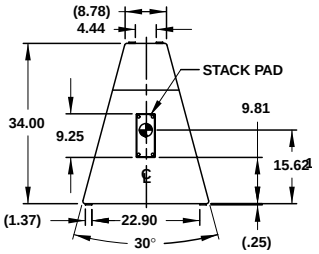
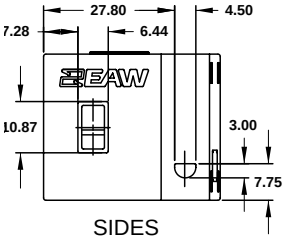


TOP/BOTTOM



SIDES

510776 (0)
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Manufacturing tolerances are +/- 0.13 and +/- 1°

PHYSICAL continued

Cabinet Type (shape)	Trapezoid
Enclosure Materials	Baltic birch plywood
Finish	Black catalyzed polyurethane
Connectors	2x Neutrik NL8 Speakon
Suspension Hardware	8x 4-position flytracks (4 each front and rear)
Grille	Powder coated perforated steel, foam backed

A & E SPECIFICATIONS

The three-way full range downfill loudspeaker system shall incorporate a 12-in LF transducer, a 10-in MF cone transducer and a 2-in exit/4-in voice coil 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 mounted on an asymmetrical, large-format horn and shall be coupled to a phase plug whose geometry exactly matches that of the driver. The HF driver shall be loaded on an asymmetrical constant directivity horn with a nominal coverage pattern of 35° (h) x 35° (v, 0° to -35°).

System frequency response shall vary no more than ±3 dB from 48 Hz to 18 kHz measured on axis. The loudspeaker's subsystems (LF/MF/HF) shall produce a Sound Pressure Level (SPL) of 103/109/115 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 132/140/144 dB SPL on axis at 1 meter. The subsystems (LF/MF/HF) shall handle 600/400/200 Watts of amplifier power (continuous) and shall have nominal impedances of 8/8/8 Ohms.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of multi-ply 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 2x Neutrik NL8 Speakon. A total of eight 4-position flytracks (4 each front and rear) shall be provided. The front of the loudspeaker shall be covered with a powder coated perforated steel grille.

The three-way full range downfill loudspeaker system shall be the EAW model KF755F.

Dimensions	**inches**	**millimeters**
Height	31.4	797
Width (Front)	27.0	686
Width (Rear)	8.8	233
Depth	34.0	864
Trapezoid Angle	15 degrees per side	
Weights	**pounds**	**kilograms**
Net Weight	168	76.4
Shipping Weight	178	81.0
Companion Systems		
Sub Bass	SB750F/SB1000e/KF940	
Full Range	KF750F	
Accessories	KF700 Series caster pallet	

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