TECHNICAL SPECIFICATIONS CH491

DESCRIPTION

A 2-way mid/high system (passive crossover) housed in a trapezoidal enclosure. Includes a horn-loaded 10-in midrange cone and a 1-in exit compression driver on a 90 x 45 constant directivity horn.

APPLICATIONS

The CH491 compact Virtual Array mid/high module works with BH or BV Series LF systems to create true 3-way arrays in permanent installations. 3-way design dramatically improves the quality of vocal reproduction while the cone-driven midrange horn extends pattern control into the lower octaves. Also effective as a stand-alone, voice-only system. Comprehensive 3/8"-16 mounting/suspension points. Six year warranty.

Applications include:

- Stadiums
- Arenas
- Convention Centers
- Large HOW's
- Small HOW's
- Major Malls

DESCRIPTIVE DATA

Part Number	999096
Product Group	I
MF Subsystem & Loading	1x 10-in Horn-Loaded Cone
HF Subsystem & Loading	1x 1-in Exit Compression Driver on Constant Directivity Horn
System Configuration	2-way, mid/high
Powering Configuration(s)	Passive MF/HF Crossover
Recommended High-Pass Frequency (24 dB/Octave)	125Hz
Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Baltic Birch Plywood
Finish	Black Catalyzed Polyurethane
Connectors	4-pin Barrier Strip & 1x Neutrik NL4 Speakon
Suspension Hardware	(20) 3/8"-16 Threaded Mounting/ Suspension Points (5 each Top and Bottom, 4 per Side, 2 on rear)
Grill	Vinyl Coated Perforated Steel

NOMINAL DATA

Frequency Response (Hz)		
±3 db	200Hz to 15kHz	
-10 dB	125Hz	
Axial Sensitivity (dB SPL/1 Watt/1m)		
	105	
Impedance (Ohms)		
	8	
Power Handling (Watts)		
AES Standard	300	
Calculated Maximum Output (dB SPL, @ 1m)		
Peak	135.8	
Long term	129.8	
Nominal Coverage Angle / -6 dB points (degrees)		
Horizontal	90	
Vertical	45	
Dimensions	**inches**	**millimeters**
Height	22.5	572
Width	24.63	626
Depth	19.75	502
Trapezoid Angle	16.5 degrees per side	
Weights	**pounds**	**kilograms**
Net Weight	100	45.5
Shipping Weight	110	50.1

EAW
EASTERN ACOUSTIC WORKS
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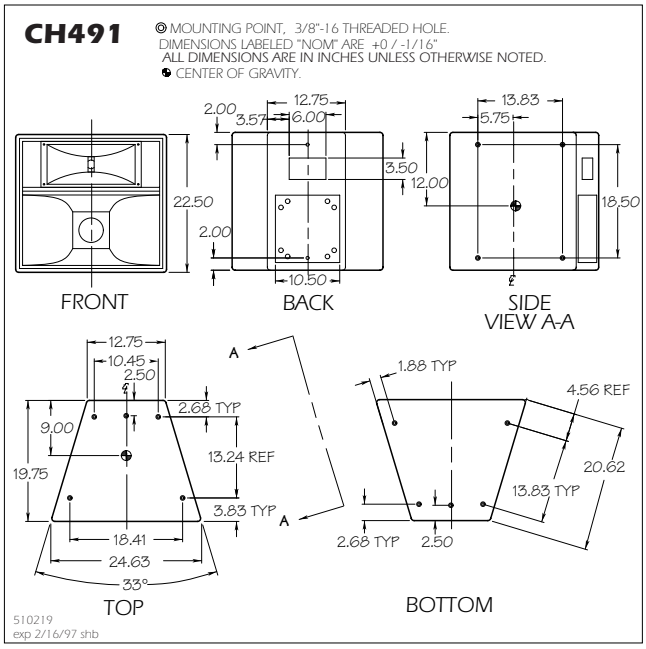
EAW products are continually improved. All specifications are therefore subject to change without notice. • PUB# CH491 999096 (A)/2p/3/14/97 • Printed In USA

DIMENSIONAL DRAWING



SERVICE ITEMS

MF: Complete Cone Driver
EAW Part No. 804021

HF: Complete Compression Driver/Tweeter
EAW Part No. 803006

Filter/Crossover Network: Complete Assembly
EAW Part No. 225060

ARCHITECTURAL SPECIFICATIONS

The passive mid/high loudspeaker systems shall incorporate a 10-in MF transducer and 1-in exit compression driver HF transducer.

The MF driver shall be loaded into a constant horizontal coverage 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 a constant directivity horn with a nominal coverage pattern of 90° (h) x 45° (v). An internal passive filter network shall provide fourth order acoustical crossover and system equalization.

System frequency response shall vary no more than ±3 dB from 200 Hz to 15 kHz measured on axis. The loudspeaker shall produce a Sound Pressure Level (SPL) of 105 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 135.8 SPL on axis at 1 meter. The loudspeaker shall handle 300 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 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 4-terminal barrier strip and 1x Neutrik NL4 Speakon. A total of twenty 3/8"-16 threaded mounting/suspension points (5 each on top and bottom, 4 per side, 2 on rear) shall be provided. The front of the loudspeaker shall be covered with a vinyl coated perforated steel grill.

The mid/high loudspeaker shall be the EAW model CH491.

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