

TECHNICAL SPECIFICATIONS CH461

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 60 x 45 constant directivity horn.

APPLICATIONS

The CH461 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

DESCRIPTIVE DATA

999095 Part Number Product Group 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 Passive MF/HF Crossover Powering Configuration(s) Recommended High-Pass Frequency (24 dB/Octave) 125Hz Trapezoidal Cabinet Type (shape) **Enclosure Materials** Baltic Birch Plywood Finish Black Catalyzed Polyurethane Connectors 4-Terminal Barrier Strip & 1x Neutrik NL4 Speakon (20) 3/8"-16 Threaded Mounting/ Suspension Hardware Suspension Points (5 each on Top and Bottom, 4 per Side, 2 rear) Grill Vinyl Coated Perforated Steel



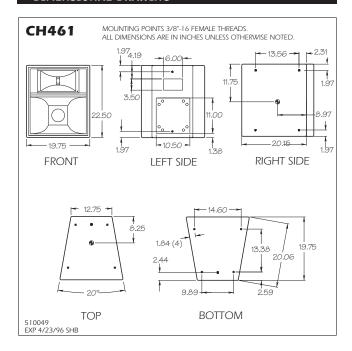
NOMINAL DAIA		
Frequency Response (Hz)		
±3 db	200Hz to	15kHz
-10 dB	125Hz	
Axial Sensitivity (dB SPL/	1 Watt/1	m)
,	106	•
Impedance (Ohms)		
. , ,	8	
Power Handling (Watts)		
AES Standard	300	
Calculated Maximum Outp	ut (dB SP	L, @ 1m)
Peak	136.8	
Long term	130.8	
Nominal Coverage Angle /	-6 dB po	ints (degrees)
Horizontal	60	
Vertical	45	
Dimensions	inches	millimeters
Height	22.5	572
Width	19.75	502
Width (Front)	19.75	502
Width (Rear)	12.75	324
Depth	19.75	502
Trapezoid Angle	10 degrees per side	
Weights	pounds	kilograms
Net Weight	80	36.4
Shipping Weight	86	39.1





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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. 225049

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 60° (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 106 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 136.8 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 CH461.