

TECHNICAL SPECIFICATIONS ASR690

DESCRIPTION

A biamplified 3-way full range system (passive mid/high crossover) in a rectangular enclosure. Includes 2x 12-in woofers (separated vertically to create a dipolar array), a horn-loaded 10-in MF cone and a 1.4-in exit/44mm voice coil HF compression driver on a 90 x 45 constant directivity horn.

APPLICATION

The ASR690 is engineered for use in permanent installations. Dipolar array technology provides effective vertical pattern control to 200 Hz while maintaining a 22.5-in enclosure height. Excellent for use directly above a microphone position. Includes comprehensive 3/8"-16 mounting/suspension points. Six year warranty.

Applications include:

Stadiums Arenas Dance Clubs Theaters Performing Arts Centers Houses of Worship



DESCRIPTIVE DATA

Part Number	999674			
Product Group	I			
System Configuration	3-way, Full Range			
Powering Configuration(s)	Biamplified (passive MF/HF crossover)			
LF Subsystem & Loading	2x 12-in, Vented, Dipolar Array			
MF Subsystem & Loading	1x 10-in, Horn-Loaded			
HF Subsystem & Loading	1x 1.4-in exit/44mm voice coil Compression Driver on Constant Directivity Horn			
Recommended High-Pass Frequency (24 dB/Octave)	50 Hz			
System Crossover	320 Hz			
Cabinet Type (shape)	Rectangular			
Enclosure Materials	Baltic Birch Plywood			
Finish	Black Polyurethane			
Connectors	2 x 2-Terminal Barrier Strip			
Suspension Hardware	(12) 3/8"-16 Threaded Mounting/ Suspension Points (3 each Top and Bottom, 2 on Sides and Back)			
Grill	Powder Coated Perforated Steel			
Options	104001 3/8"-16 Eyebolt (FC300B)			

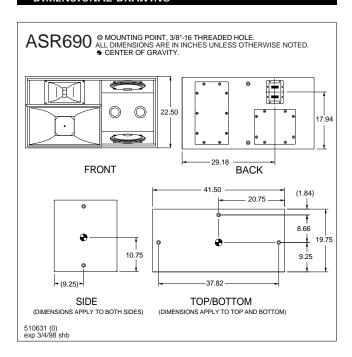
NOMINAL DATA						
Frequency Response (1 Watt @ 1m)						
±3 dB	58 Hz to 17 kHz					
-10 dB	49 H7					
Axial Sensitivity (dB SPL, 1 Watt @ 1m)						
Passive MF/HF	105					
LF	102					
Impedance (Ohms)						
Passive MF/HF	8					
LF	4					
Power Handling, AES Standard (Watts)						
Passive MF/HF	360					
LF	800					
Calculated Maximum Output (dB SPL)						
Passive MF/HF Peak	136.6					
LF Peak	135.0					
Passive MF/HF Long term	130.6					
LF Long Term	129.0					
Nominal Coverage Angle/-6 dB points (degrees)						
Horizontal	90					
Vertical	45					
Dimensions	inches millimete	ers				
Height	22.50 572					
Width	41.50 1054					
Depth	19.75 502					
Weights	pounds kilograms					
Net Weight	154 70.1					
Shipping Weight	172 78.3					





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DIMENSIONAL DRAWING



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ARCHITECTURAL SPECIFICATIONS

The biamplified 3-way full range loudspeaker systems shall incorporate 2x 12-in LF transducers, a 10-in MF cone and a 1.4-in exit/44mm voice coil HF compression driver.

The LF drivers shall be mounted in slanted baffles and separated to create a dipolar array. The MF driver shall be loaded into a midrange horn constructed of 3mm birch plywood backed with high density polyurethane foam. 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 between the MF and HF subsystems.

System frequency response shall vary no more than ± 3 dB from 58 Hz to 17 kHz measured on axis. The mid/high section 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 136.6 dB SPL on axis at 1 meter. The low frequency 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 135.0 dB SPL on axis at 1 meter. The mid/high section shall handle 360 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms. The low frequency section shall handle 800 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 4 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 polyurethane. Input connectors shall be 4-terminal barrier strip. Twelve (12) 3/8"-16 threaded mounting/suspension points (3 each top and bottom, 2 on each side and back) shall be provided. The front of the loudspeaker shall be covered with a powder coated perforated steel grill.

The biamplified 3-way full range loudspeaker shall be the EAW model ASR690.

EAW Part No.