



TECHNICAL SPECIFICATIONS AS490

DESCRIPTION

A 2-way mid/high system (passive mid/high crossover) in a trapezoidal enclosure. Includes 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 AS490 provides the mid/high performance capabilities of the 90° (h) AS Series systems in a separate mid/high module. It can be used as a stand-alone system for speech-only applications or, together with an AS415, AS422 or AS625 LF module, it provides full range performance in a flexible, modular, multi-enclosure format. 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	999672
Product Group	I
System Configuration	2-way, Mid/High
Powering Configuration(s)	Passive MF/HF Crossover
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)	200 HZ
Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Baltic Birch Plywood
Finish	Black Polyurethane
Connectors	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	250 Hz to 17 kHz
-10 dB	115 Hz

Axial Sensitivity (dB SPL, 1 Watt @ 1m)

Passive MF/HF	105
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Impedance (Ohms)

Passive MF/HF	8
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Power Handling, AES Standard (Watts)

Passive MF/HF	360
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Calculated Maximum Output (dB SPL @ 1m)

Passive MF/HF Peak	136.6
Passive MF/HF Long term	130.6

Nominal Coverage Angle/-6 dB points (degrees)

Horizontal	90
Vertical	45

Dimensions

	inches	millimeters
Height	22.50	572
Width (Front)	24.63	626
Width (Rear)	14.04	357
Depth	19.75	502
Trapezoid Angle	15 degrees per side	

Weights

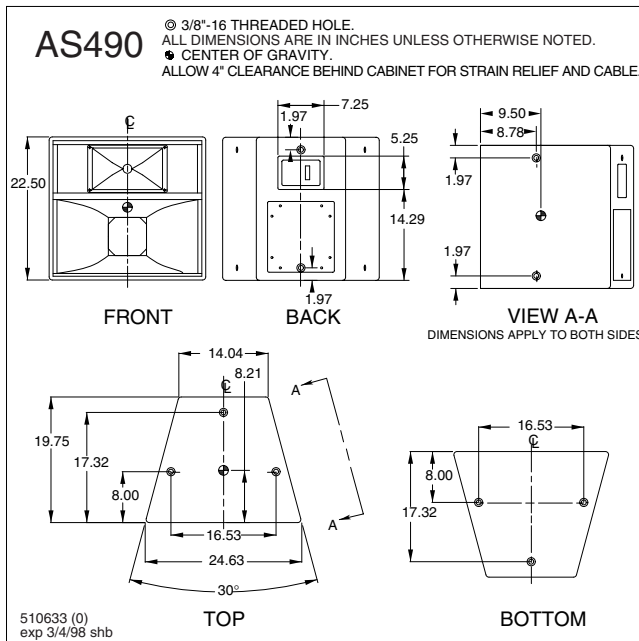
	pounds	kilograms
Net Weight	83	37.8
Shipping Weight	97	44.1





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DIMENSIONAL DRAWING



ARCHITECTURAL SPECIFICATIONS

The passive mid/high loudspeaker systems shall incorporate a 10-in MF cone and a 1.4-in exit/44mm voice coil HF compression driver.

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.

System frequency response shall vary no more than ± 3 dB from 250 Hz to 17 kHz measured on axis. The system 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 system shall handle 360 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 polyurethane. Input connectors shall be 2-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 mid/high loudspeaker shall be the EAW model AS490.

SERVICE ITEMS

MF: Complete Cone Driver	EAW Part No. 804021
HF: Complete Compression Driver/Tweeter	EAW Part No. 803039
MF: Recone Assembly	EAW Part No. 460010
HF: Diaphragm Assembly	EAW Part No. 806019
Filter/Crossover Network: Complete Assembly	EAW Part No. 225347