

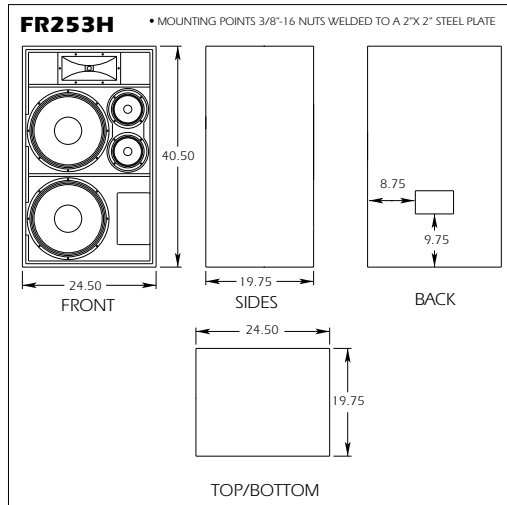
FR253HR Technical Specifications



APPLICATIONS

The FR253HR combines massive output capabilities with the high fidelity accuracy that only true three way loudspeaker design can provide. Optimized for portability and excellent coverage with high output and extended bass response in short to medium-throw applications, the FR253HR would be at home in any of the following venues and applications:

- Performing Arts Facilities
- Corporate AV
- Touring Sound
- Professional Musicians
- Portable Dance Systems
- Sidefill or Drum Monitor
- Theaters
- Churches
- Clubs
- Lecture Halls



SPECIFICATIONS

Frequency Response

±3 dB	45 Hz to 17 kHz
-3 dB	48 Hz
-10 dB	35 Hz

Axial Sensitivity

SPL 1w @ 1m LF	102 dB
SPL 1w @ 1m MF/HF	104.5 dB
1/2 Space Efficiency	7.4%

Impedance

Nominal	4Ω
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Power Handling

LF AES	900 Watts
LF 100 Hour Sine Wave	400 Watts
MF/HF AES	500 Watts
MF/HF 100 Hour Sine Wave	225 Watts

Maximum Output

LF Peak	131.5 dB SPL
LF Long Term	128 dB SPL
MF/HF Peak	131.5 dB SPL
MF/HF Long Term	128 dB SPL

Nominal Coverage Angles (-6 dB)

Horizontal	100 degrees
Vertical	50 degrees

Additional Descriptive Data

LF Subsystem	2 x 15-in Vented
MF Subsystem	2 x 7-in Poly-Laminated Cone
HF Subsystem	1 x 1-in Throat Compression Driver, Constant Directivity Horn
Crossover	Switchable Passive/Biamp, Equalized
Finish	Black Catalyzed Polyurethane
Connectors	1/4" Phone Jacks, Banana Test Points, Neutrik NL4FC
Grill	Vinyl Coated Perforated Steel

Dimensions & Weights

Height	41.50 in (1054.1 mm)
Width	24.63 in (625.5 mm)
Depth	19.75 in (501.7 mm)
Net Weight	163 lbs. (73.4 kg)
Shipping Weight	168 lbs. (76.4 kg)

OTHER RELEVANT DOCUMENTS

- Group B Hardware Technical Specifications*
 - Group B Price Lists
 - APP Testing Procedures*
 - Weatherproofing Technical Specifications*
 - Structural/Mechanical Technical Specifications*
- * Soon to be released

ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a three-way design, incorporating two 15-inch low frequency cone-type transducer in a vented enclosure, two 170 mm (nominal 7-inch) poly-laminated cone mid frequency transducers, and a compression driver mounted on a constant horizontal coverage high frequency horn. The mid frequency drivers shall be recessed into the baffle for phase optimization and be mounted into sealed sub-chambers within the enclosure.

The system shall meet the following performance criteria: Frequency Response: 45 Hz to 17 kHz ±3 dB. Axial Sensitivity: 102 dB SPL 1W@1m over the 100 to 10 kHz band. Power Handling: 500 Watts full range AES Standard. Vertical Coverage Angle: 50 degrees between -6 dB points. Horizontal Coverage Angle: 100 degrees between -6 dB points.

The system shall include an internal passive crossover network, providing for both bi-amplified (with passive MF/HF crossover) or full range passive operation via rear panel switching. The network shall be of a third order asymmetrical design with compensation for maximally flat response throughout the crossover region. Input connectors shall include dual 1/4" phone jacks, banana test points and Neutrik NL4 Speakon connectors located on the rear of the cabinet.

The cabinet shall be constructed of 18mm thick, void-free birch plywood with a minimum of 18 plies to the inch and coated with a catalyzed black polyurethane finish. The system shall be provided with recessed handles on each side and two castors mounted on a cut-away section of the bottom rear of the enclosure. All drivers and horns shall be protected by a vinyl coated perforated steel grill.

The loudspeaker system shall be the EAW FR253HR.



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EAW products are continually improved. All specifications are therefore subject to change without notice. ▪ PUB# FR152/10/26/94 ▪ Printed In USA