

ESR212 Technical Data Sheet

Introduction

The ESR212 is a full-range 3-way loudspeaker system designed for use with the ESR2800 tri-amplified stereo electronic control pack. The ESR212 loudspeaker system features state of the art transducer design. Comprising of two 12" woofers, a 6" midrange driver and a 1" compression driver, the ESR212 delivers full range high definition audio over large spaces. It has a dispersion of 90 degrees by 40 degrees and can be installed either vertically or horizontally. The ESR212 has multiple M10 fly points as well as custom designed flyware and brackets.

Features

- The ESR212 is a full-range 3-way loudspeaker system
- Designed for use with its associated ESR2800 tri-amplified stereo electronic control pack
- The ESR loudspeaker system features Super Analog components throughout and state of the art transducer designs
- Comprising of two 12" woofers, a 6" midrange driver and a 1" compression driver the ESR212 manages to transfer the atmosphere from a performer on stage to each and every audience member
- The ESR family offers a true musical solution to the enjoyment of classical music, theatre or live performance on a grand scale



Application

Specifically designed for theatres

- Very high quality fixed installations
- Live music and multimedia applications
- Classical music amplification and reproduction
- Audiophile, very high quality system
- High quality studio monitoring

System Acoustic Performance	
Max SPL Long-term	128dB
Max SPL Peak	131dB
-3dB Response	38Hz to 22kHz
-10dB Response	28Hz to 28kHz
Crossover Point	500Hz, 2.5kHz

High Frequency Section	
Acoustic Design	Horn Loaded
High Horn Coverage Horizontal / Vertical	90° x 40°
Rotatable Horn	YES
Sensitivity	109dB
High Frequency Amplifier Requirement	100W from ESR2800 Amplifier
Throat Exit Diameter / Diaphragm Size	1" / 1.75"
Diaphragm Material	NVPD Treated Titanium
Magnet Type	Neodymium

Mid Range Section	
Acoustic Design	Horn Loaded
Mid Horn Coverage Horizontal / Vertical	90° x 40°
Rotatable Horn	YES
Sensitivity	106dB
Midrange Amplifier Requirement	200W from ESR2800 Amplifier
Woofer Size / Voice Coil Diameter	6" / 1.75"
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium

Low Frequency Section	
Acoustic Design	Front Loaded, Bass Reflex
Sensitivity	98dB
Subwoofer Amplifier Requirement	1000W from ESR2800 Amplifier
Number of Drivers	2
Woofer Size / Voice Coil Diameter / Design	12" / 3" / Inside Outside
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium

Speaker Input	
Speaker Input	Amphenol AP-6 Male

Speaker Output	
Speaker Output	-

Cabinet	
Cabinet Material	Baltic birch
Handles	2
Color	Black / Optional luxury High gloss

Physical Dimensions	
Height	1135 mm (44.69")
Width	447 mm (17.6")
Depth	444 mm (17.48")
Weight	45 kg (99.2lbs)

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Architectural Specifications

The three-way, mid / high loudspeaker system shall incorporate two 12-inch low frequency (LF) transducer a 6-inch mid-range (MR) speaker and a 1-inch exit compression driver high frequency (HF) transducer. The LF drivers shall be mounted above and below the mid - hi horn tuned for optimum mid-bass response and dispersion. The HF and MR transducers shall be loaded on a rotatable, integrated, constant directivity mid/high horn assembly.

The system has a nominal coverage pattern of 90° (horizontal) x 40° (vertical). The loudspeaker enclosure shall have a rectangular shape and shall incorporate, two top handles. Enclosure incorporates M10 suspension points, three M10 suspension points on the top, three M10 on the bottom and one M10 suspension point on the back.

The speaker cabinet shall be finished with an ultra wear resistant black polymer coating and fitted with a weather resistant perforated steel grill.

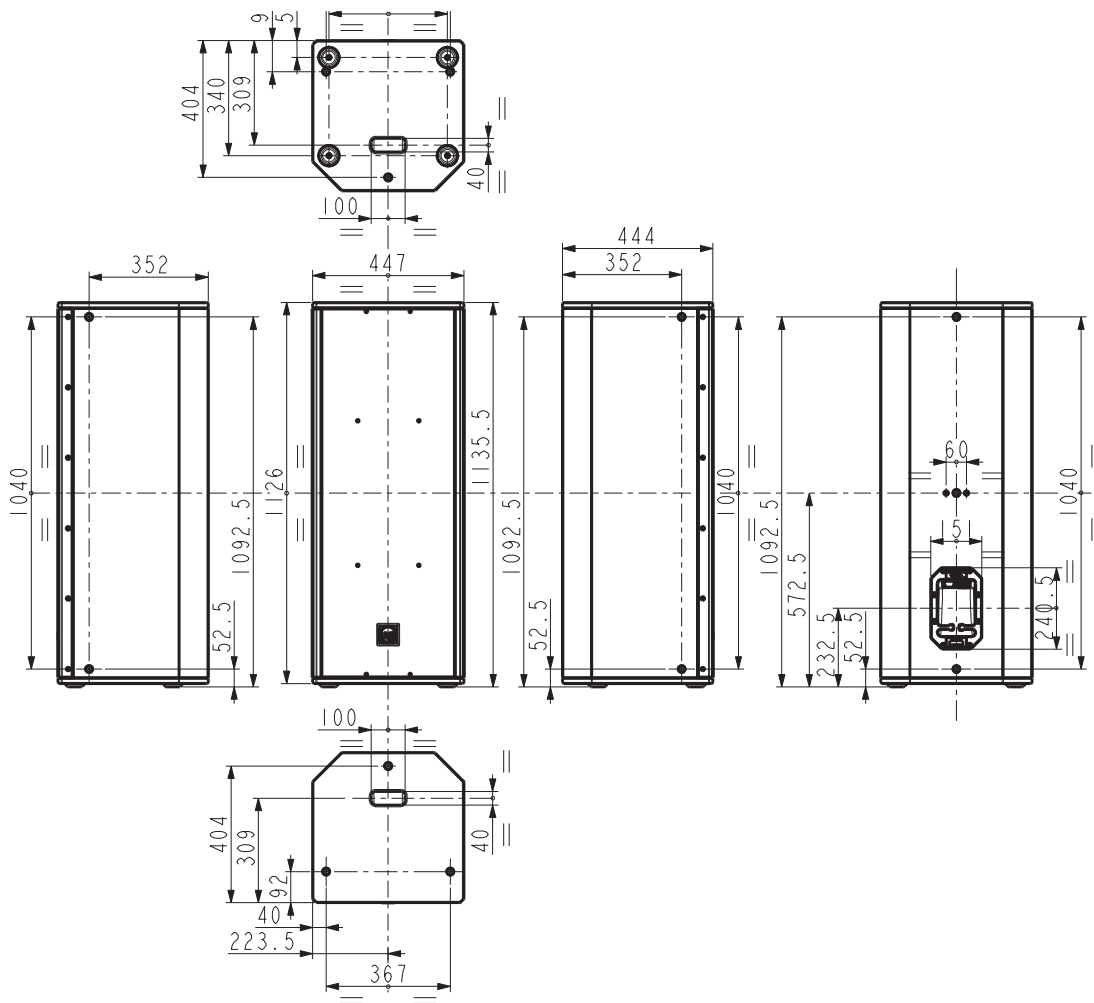
The system shall receive power from a separate ESR2800 Amplifier.

ESR2800 Amplifier - Controller Module consisting of separate power amplifiers for high, midrange and midbass transducers as well as signal processing including electronic band pass crossover filters, phase alignment, time correction, equalization and speaker protection.

The speaker system shall connect to the Amplifier/Controller Module via proprietary cables terminated in Amphenol AP-6 connectors.

The three-way mid / high loudspeaker system shall be the KV2 Audio ESR212.

Dimensional Drawings



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