

# RS Series

## 2-Way Self-Powered Loudspeakers RS121/123 & RS151/153

- ▶ 1500 watts of Class-D Amplification
- ▶ High quality transducers for best-in-class acoustic performance.
- ▶ EAW Focusing™ for unmatched clarity & accuracy
- ▶ Rotatable MK inspired horn for EAW signature pattern control
- ▶ Lightweight & durable wooden enclosure with M10 threaded suspension points



### OVERVIEW

The RS Series delivers EAW signature performance in a meticulously designed portable, lightweight and durable wooden enclosure. Each loudspeaker in the series is designed around high quality HF and LF transducers. Pattern control of the RS Series is further enhanced by the large format, constant directivity HF horn; first proven in the legendary MK Series, this horn design was born from the audio performance needs of demanding performance venues throughout the world.

RS loudspeakers house on-board bi-amplified electronics (1500W) featuring signature EAW DSP, Focusing™ and DynO™ to deliver unmatched musical clarity and tonal accuracy throughout the listening area and at high drive levels. Advanced port design utilizes asymmetric geometry to control reflections and resonance.

EAW Resolution™ software platform is a powerful and easy-to-use simulation software that accurately predicts the performance of one or multiple RS Series enclosures within a venue or performance space.

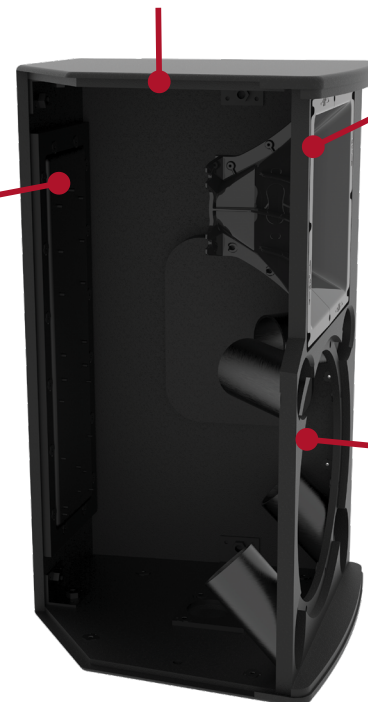
### INSIDE EAW TECHNOLOGIES

**Durable Wood Enclosure**  
is lightweight and designed to eliminate resonance

**Amplifier with EAW DSP**  
provides unmatched musical clarity and tonal accuracy

**Large MK Horn**  
For wicked constant directivity

**Asymmetric Aperture Ports**  
to control reflections



RS115

### COMPANION PRODUCTS

#### RS Subwoofer Series

- ▶ 1500 watts of Class-D Amplification
- ▶ Dual tunings for application specific performance
- ▶ Premium transducers and signature EAW DynO™ dynamic optimization processing
- ▶ Ergonomic handles, rugged grille, RoadCoat enclosure, pole cup and optional casters

## CONFIGURATION OPTIONS



\*Shown with RS115 subwoofer

M20 Positive Threaded Pole



Multiple M10 Mounting Points\*

## ACCESSORIES

DESCRIPTION	RS121/123	RS151/153
Transport Cover (not shown)	2070538	2070539
M20 Positive Thread Pole	2047634	
M10 Kit	0028272	

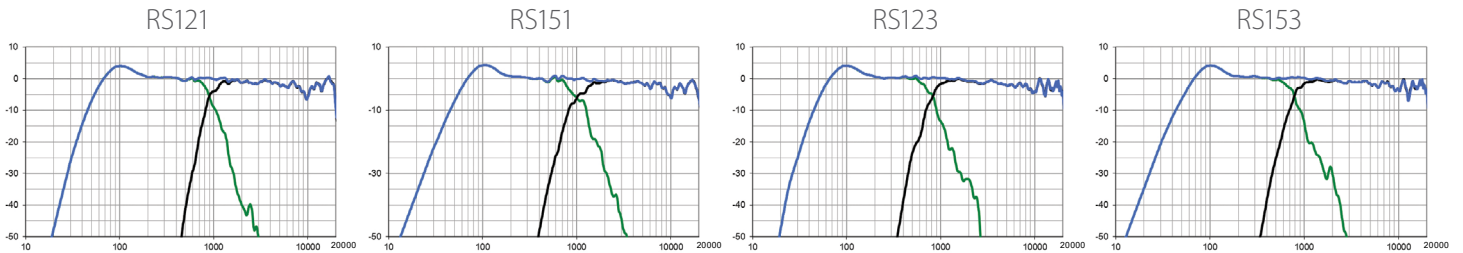
\*Building codes may vary. Please reference local rules & regulations.



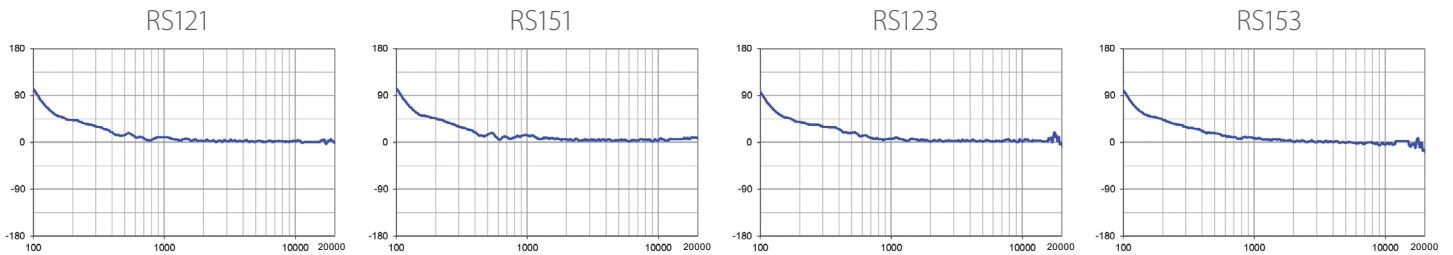
Stage Monitor

## PERFORMANCE GRAPHS

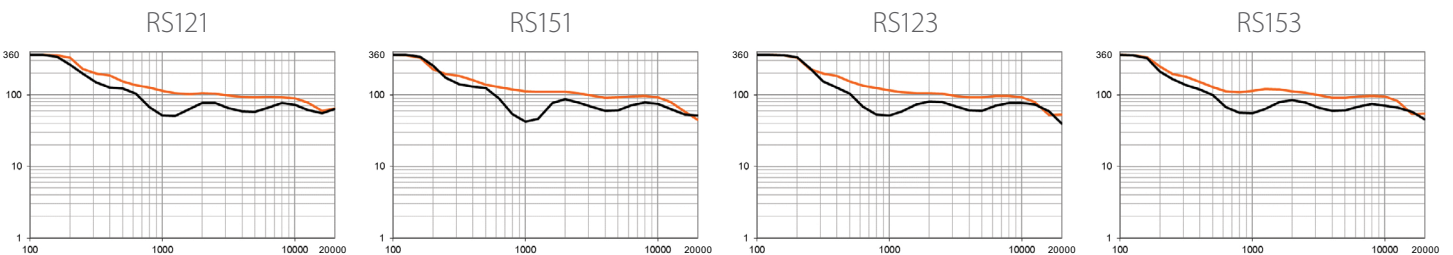
Frequency Response ■=LF ■=HF ■=Overall



## Phase Linearity



## Beamwidth ■=Horizontal ■=Vertical



## TECHNICAL SPECIFICATIONS

## 2-WAY SELF-POWERED LOUDSPEAKERS 90° x 60°

MODEL	PROFESSIONAL				PERFORMANCE			
	RS121		RS151		RS123		RS153	
<b>Speaker Type</b>	12in, 2-Way, Bi-Amp Self-Powered Speaker, Vented		15in, 2-Way, Bi-Amp Self-Powered Speaker, Vented		12in, 2-Way, Bi-Amp Self-Powered Speaker, Vented		15in, 2-Way, Bi-Amp Self-Powered Speaker, Vented	
<b>PERFORMANCE</b>	RS121		RS151		RS123		RS153	
<b>Max SPL<sup>1</sup></b>	135dB		136dB		138dB			
<b>Operating Range<sup>2</sup></b>	47 Hz – 20 kHz		43 Hz – 20 kHz		47 Hz – 20 kHz		43 Hz – 20 kHz	
<b>Nominal Beamwidth<sup>3</sup></b>	90° Horizontal x 60° Vertical, Constant Directivity, User-Rotatable				90° Horizontal x 60° Vertical, Constant Directivity, User-Rotatable			
<b>Nominal Phase</b>	±15° from ideal high-pass filter				±15° from ideal high-pass filter			
<b>CONFIGURATION</b>	RS121		RS151		RS123		RS153	
<b>LF Transducer</b>	12in Cone, 2.5in Voice Coil		15in Cone, 2.5in Voice Coil		12in Cone, 2.5in Voice Coil		15in Cone, 3in Voice Coil	
<b>HF Transducer</b>	1.4in Voice Coil Compression Driver, 1in Exit		1.7in Voice Coil Compression Driver, 1in Exit		3in Voice Coil Neodymium Compression Driver, 1.4in Exit			
<b>Crossover</b>	1 kHz		1 kHz		800 Hz		800 Hz	
<b>Signal Processing</b>	DSP with EAW Focusing™ and DynO™				DSP with EAW Focusing™ and DynO™			
<b>Modes</b>	Main / Monitor, Mic / Line				Main / Monitor, Mic / Line			
<b>ELECTRICAL</b>	RS121		RS151		RS123		RS153	
<b>Input Type</b>	Electronically Balanced XLR / TRS				Electronically Balanced XLR / TRS			
<b>Loop Type</b>	Electronically Balanced XLR				Electronically Balanced XLR			
<b>Amplifier</b>	<b>Type</b> Class D <b>Max Output LF / HF (Peak)</b> 1500W				<b>Type</b> Class D <b>Max Output LF / HF (Peak)</b> 1500W			
<b>AC Mains (nominal)</b>	<b>Connector</b> IEC Connector <b>Input</b> 100-120V or 200-240V, 50-60Hz				<b>Connector</b> Neutrik PowerCON® <b>Input</b> 100-120V or 200-240V, 50-60Hz			
<b>CURRENT DRAW</b>	RS121		RS151		RS123		RS153	
<b>Idle</b>			50W				50W	
<b>1/8th Power</b>			50W				50W	
<b>1/3rd Power</b>			75W				75W	
<b>Full Power</b>			200W				200W	
<b>PHYSICAL</b>	RS121		RS151		RS123		RS153	
<b>Material</b>	15mm Plywood				15mm Plywood			
<b>Dimensions (HxWxD)</b>	25.9 x 14.5 x 15in (658 x 368 x 381mm)		28.9 x 17.3 x 16.1in (734 x 439 x 409mm)		25.9 x 14.5 x 15in (658 x 368 x 381mm)		28.9 x 17.3 x 16.1in (734 x 439 x 409mm)	
<b>Net Weight</b>	42lb (19kg)		54lb (25kg)		42lb (19kg)		55lb (25kg)	
<b>Shipping Weight</b>	52lb (24kg)		64lb (29kg)		52lb (24kg)		64lb (29kg)	
<b>ORDERING DATA</b>								
<b>Voltages</b>	<b>115V</b>	<b>230V</b>	<b>115V</b>	<b>230V</b>	<b>115V</b>	<b>230V</b>	<b>115V</b>	<b>230V</b>
<b>Part Numbers (black)</b>	2070249-90	2070293-90	2070253-90	2070254-90	2070299-90	2070295-90	2070315-90	2070316-90
<b>Subwoofers</b>								
RS115	2070487-90	2070488-90	2070487-90	2070488-90	2070487-90	2070488-90	2070487-90	2070488-90
RS118	2070489-90	2070490-90	2070489-90	2070490-90	2070489-90	2070490-90	2070489-90	2070490-90
<b>Accessories</b>								
M20 Positive Threaded Pole	2047634 [RSP-1]				2047634 [RSP-1]			
M10 Kit	0028272 [PA-A2 EYEBOLT KIT (4 PER)]				0028272 [PA-A2 EYEBOLT KIT (4 PER)]			
Transport Cover	2070538		2070539		2070538		2070539	

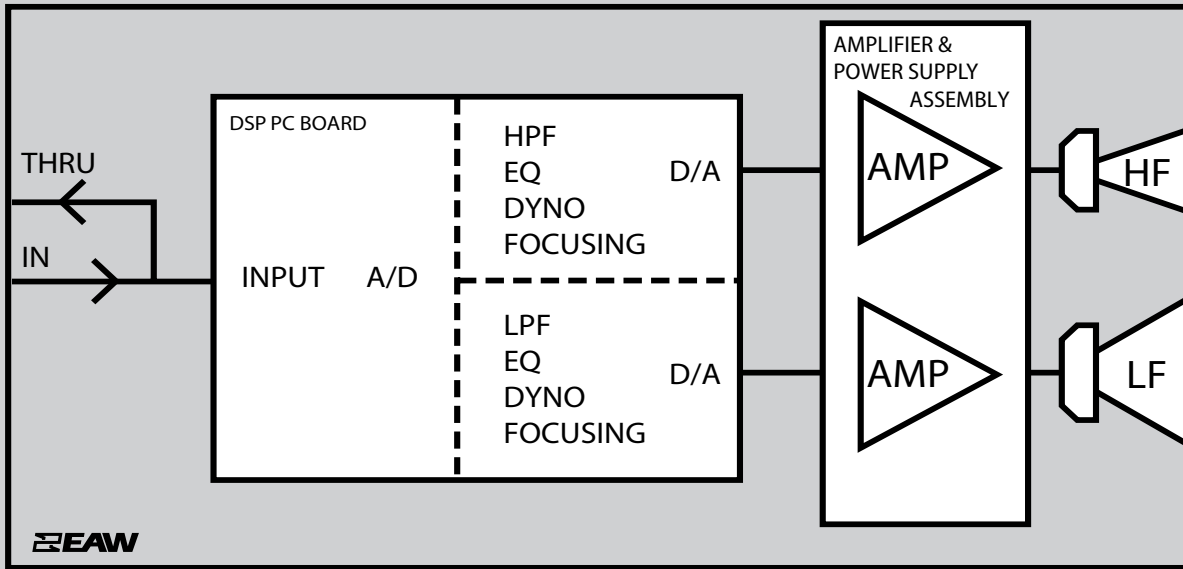
1 Calculated max SPL at 1m with 4:1 (12dB) crest factor pink noise. Specified as whole space (free field) for full range loudspeakers, half space for subwoofers.

2 Operating Range: Range where the processed Frequency Response stays within -10 dB SPL of the power averaged SPL within this range; measured on the geometric axis. Narrow band dips are accepted.

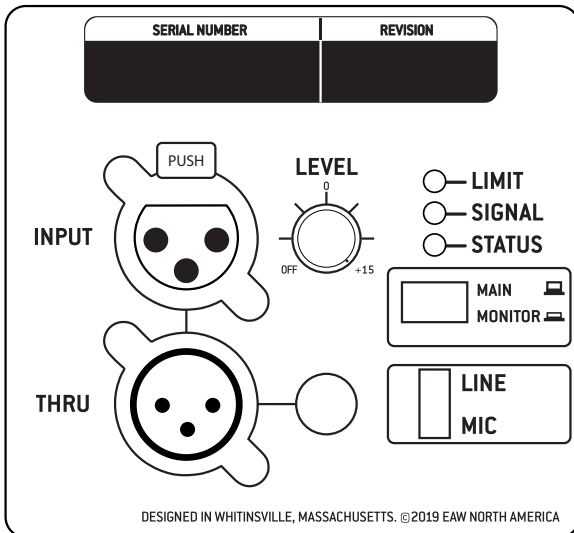
3 Nominal Beamwidth: Design angle for the -6 dB SPL points, referenced to 0 dB SPL as the highest level.

SIGNAL DIAGRAM

# 2-Way, Bi-Amp (LF, HF)



## INPUT PANEL



<b>HPF</b>	High Pass Filter for crossover –or– Recommended High Pass Filter
<b>LPF</b>	Low Pass Filter for crossover
<b>LF/MF/HF</b>	Low Frequency / Mid Frequency / High Frequency
<b>AMP</b>	User Supplied Power Amplifier –or– Integral Amplifier
<b>XVR</b>	Passive LPFs, HPFs, and EQ integral to the loudspeaker
<b>EAW DynO™</b>	Digital Signal Processor capable of implementing EAW DynO™ processing
<b>EAW Focusing™</b>	Digital Signal Processor capable of implementing EAW Focusing™



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