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 performace.
- EAW Focusing™ for unmatched clarity & accuracy
- Rotatable MK inspired horn for EAW signature pattern control
- Lightweight & durable wooden enclosure with M10 threaded suspension points

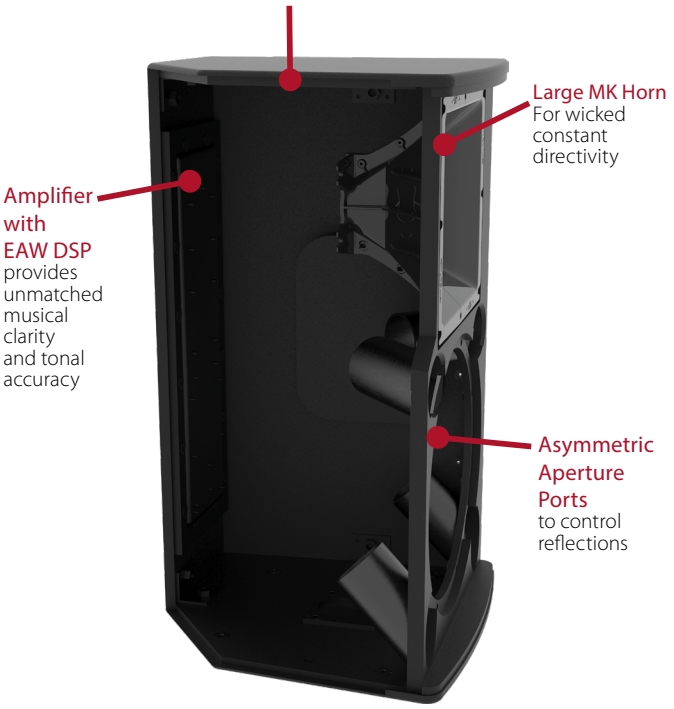
OVERVIEW

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



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

One Main Street | Whitinsville, MA 01588 | Tel 800 992 5013 / 508 234 6158 | www.eaw.com

EAW products are continually improved. All specifications are therefore subject to change without notice. ©2019 Eastern Acoustics Works

EAW EASTERN ACOUSTIC WORKS

CONFIGURATION OPTIONS

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	

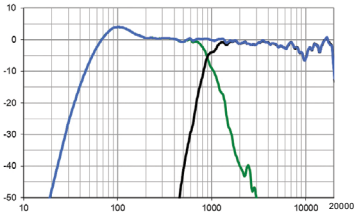
*Building codes may vary. Please reference local rules & regulations.

Stage Monitor

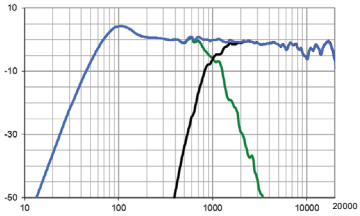
PERFORMANCE GRAPHS

Frequency Response ■=LF ■=HF ■=Overall

RS121



RS151



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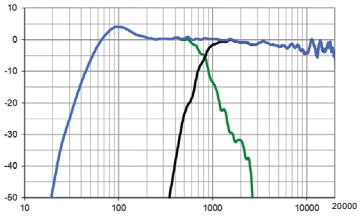

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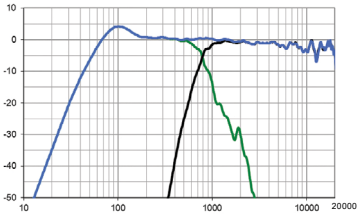
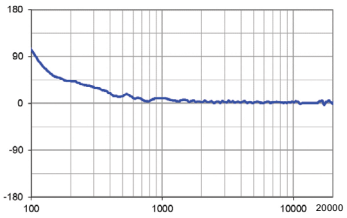


Phase Linearity

RS121



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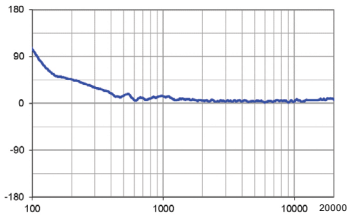
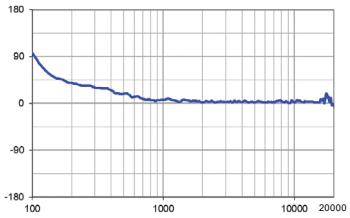


RS123



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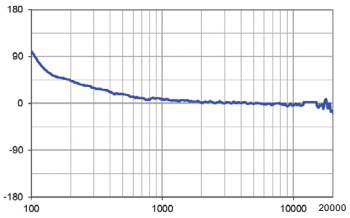
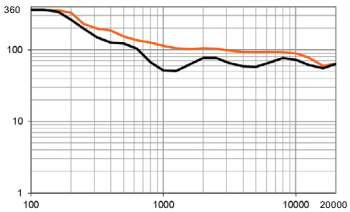


Beamwidth ■=Horizontal ■=Vertical

RS121



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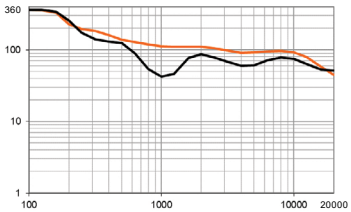

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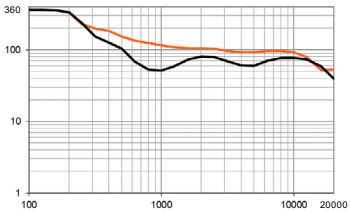

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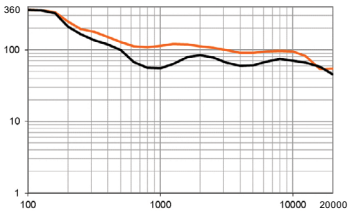


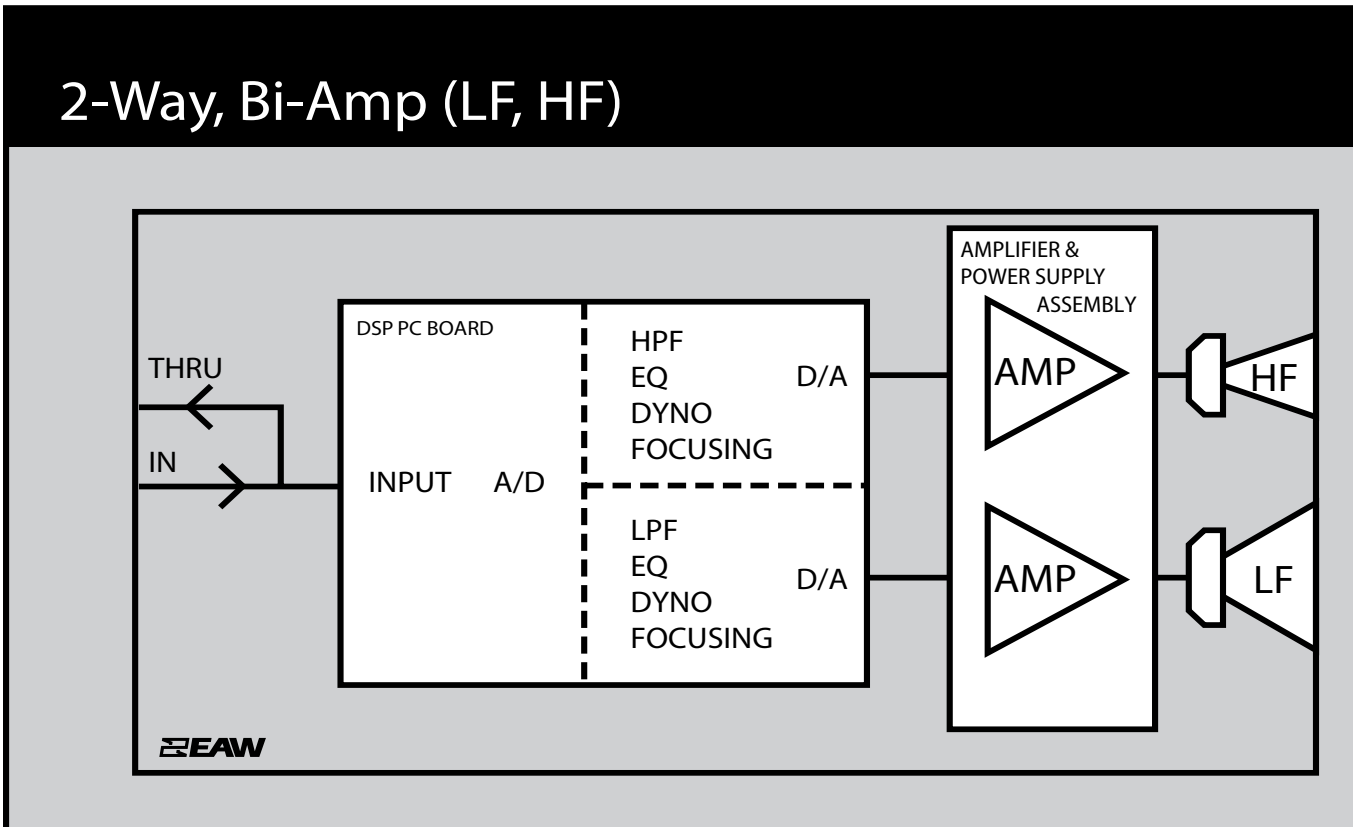
TECHNICAL SPECIFICATIONS

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

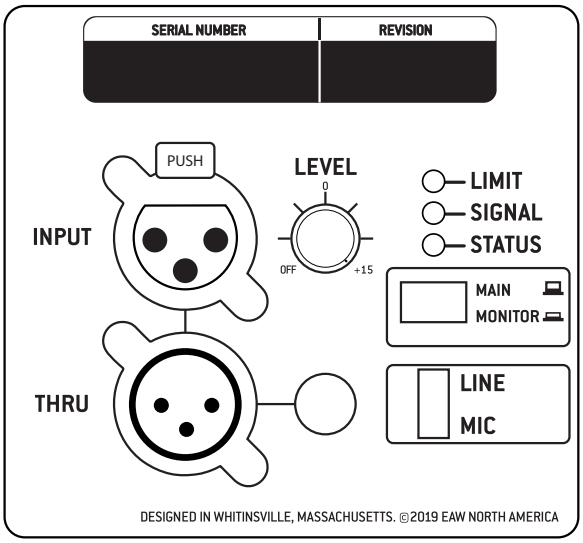
	PROFESSIONAL				PERFORMANCE			
MODEL	**RS121**		**RS151**		**RS123**		**RS153**	
Speaker Type	12in, 2-Way, Bi-Amp Self-Powered Speaker, Vented		15in, 2-Way, Bi-Amp Self-Powered Speaker, Vented		12in, 2-Way, Bi-Amp Self-Powered Speaker, Vented		15in, 2-Way, Bi-Amp Self-Powered Speaker, Vented	
PERFORMANCE	**RS121**		**RS151**		**RS123**		**RS153**	
Max SPL[1]	135dB		136dB		138dB			
Operating Range[2]	47 Hz – 20 kHz		43 Hz – 20 kHz		47 Hz – 20 kHz		43 Hz – 20 kHz	
Nominal Beamwidth[3]	90° Horizontal x 60° Vertical, Constant Directivity, User-Rotatable				90° Horizontal x 60° Vertical, Constant Directivity, User-Rotatable			
Nominal Phase	±15° from ideal high-pass filter				±15° from ideal high-pass filter			
CONFIGURATION	**RS121**		**RS151**		**RS123**		**RS153**	
LF Transducer	12in Cone, 2.5in Voice Coil		15in Cone, 2.5in Voice Coil		12in Cone, 2.5in Voice Coil		15in Cone, 3in Voice Coil	
HF Transducer	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			
Crossover	1 kHz		1 kHz		800 Hz		800 Hz	
Signal Processing	DSP with EAW Focusing™ and DynO™				DSP with EAW Focusing™ and DynO™			
Modes	Main / Monitor, Mic / Line				Main / Monitor, Mic / Line			
ELECTRICAL	**RS121**		**RS151**		**RS123**		**RS153**	
Input Type	Electronically Balanced XLR / TRS				Electronically Balanced XLR / TRS			
Loop Type	Electronically Balanced XLR				Electronically Balanced XLR			
Amplifier	***Type*** Class D ***Max Output LF / HF (Peak)*** 1500W				***Type*** Class D ***Max Output LF / HF (Peak)*** 1500W			
AC Mains (nominal)	***Connector*** IEC Connector ***Input*** 100-120V or 200-240V, 50-60Hz				***Connector*** Neutrik PowerCON® ***Input*** 100-120V or 200-240V, 50-60Hz			
CURRENT DRAW	**RS121**		**RS151**		**RS123**		**RS153**	
Idle	50W				50W			
1/8th Power	50W				50W			
1/3rd Power	75W				75W			
Full Power	200W				200W			
PHYSICAL	**RS121**		**RS151**		**RS123**		**RS153**	
Material	15mm Plywood				15mm Plywood			
Dimensions (H×W×D)	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)	
Net Weight	42lb (19kg)		54lb (25kg)		42lb (19kg)		55lb (25kg)	
Shipping Weight	52lb (24kg)		64lb (29kg)		52lb (24kg)		64lb (29kg)	
ORDERING DATA								
Voltages	***115V***	***230V***	***115V***	***230V***	***115V***	***230V***	***115V***	***230V***
Part Numbers (black)	2070249-90	2070293-90	2070253-90	2070254-90	2070299-90	2070295-90	2070315-90	2070316-90
Subwoofers								
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
Accessories								
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 excepted.
3 Nominal Beamwidth: Design angle for the -6 dB SPL points, referenced to 0 dB SPL as the highest level.

SIGNAL DIAGRAM



INPUT PANEL



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

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