NX 9 SERIES

The next generation of sound

A NEW STANDARD IN PORTABLE SOUND

The NX 9 series is masterfully engineered to deliver stellar audio performances for solo musicians, bands, and DJs. The new bi-amplified 2100W electroacoustic design provides impressive sound pressure levels, also when used in open-air applications and at long distances, with unbeatable sound quality. The combination of purpose-designed transducers, advanced DSP processing, and a constant directivity waveguide produces coherent coverage to the listening area with distortion-free sound and RCF reliability. Durably built in a rugged all-wood cabinet, NX 9 is tour-ready, and delivers remarkable audio performance and versatility to any professional audio application.

TOUR-PROVEN WORKHORSE

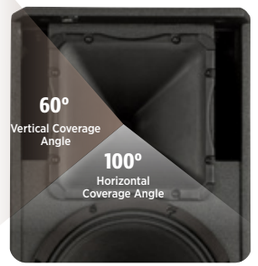
- Design Perfect as Main System or Stage Monitor
- The Most Powerful Amplifier in its Class
- **2100W** [1,400W (LF) + 700W (HF)]
- Advanced DSP with Presets

SUPERIOR TRANSDUCERS

- Best-in-Class Compression Driver
- 10x Stronger Kapton Diaphragm Design
- More Consistent Energy Transfer
- Improved Thermal Resistance

BASS MOTION CONTROL

- Exclusive Woofer Excursion Management
- Extended Low-Frequency Reproduction
- Free from High-pass Filtering
- Full-range Limiter Removed



REMARKABLE AUDIO PERFORMANCE

- Perfect Sound Image
- Wide 100° x 60° Constant Directivity
- Coherent On/Off-Axis Sound Timbre
- FiRPHASE 0° Phase Linearity

THE MOST POWERFUL AMPLIFIER IN ITS CLASS

With 2100 W power, the 2-channel NX 9 Class-D amplifier is 50% more powerful than previous models, able to manage extreme sound pressure levels with an ultra-fast attack, realistic transient response, and very low heat loss.

ONE INPUT

Plug the output of your mixer or audio device into the Line-in Combo (TRS+XLR) Input. The extremely low noise input circuit will deliver an unaltered and clean signal to the power amplifier.

ALUMINUM BACK PANEL

1. **Balanced Line Input**
2. **Balanced Line Link/Output**
3. **Volume Control** [rotate to adjust the volume]
4. **Status LEDs:**
   Signal [green - safe input level]
   Overload [red - limiting in action]
5. **Preset Selection Button**
   LINEAR - Finely tuned sound for best clarity
   BOOST - Enhanced loudness for background music or punchy bass
   STAGE - Perfect tuning for stage monitoring

SUPERIOR TRANSDUCERS

Lightweight and powerful, RCF drivers are a reference in high performance. All transducers are designed by RCF engineers in Italy for maximum reliability and perfectly matched components. The new 1.75” voice coil design with Polyimide-Kapton dome features a new bonding technology and reinforcement ribs making it 10 times more rigid than previous models, for increased accuracy and durability. The redesigned phase plug increases sound clarity with less distortion. Low-frequency transducer design gains more stability over higher currents, with less distortion and better heat handling.

1.75” Compression Driver

High-Power 15” Woofer
3” Voice Coil

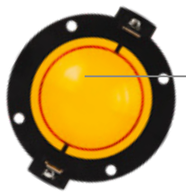
NX 915-A

High-Power 12” Woofer
2.5” Voice Coil

NX 912-A

High-Power 10” Woofer
2.5” Voice Coil

NX 910-A



POLYIMIDE-KAPTON DOME

Kapton® is a material extensively used in space and for temperature-resistant insulation. For applications where extremes of heat and vibration are the norm, designers rely on Kapton® because of its ability to maintain its unique combination of mechanical properties under the harshest of conditions.

TOUR-PROVEN WORKHORSE

NX 9 can operate as either the main system or as a floor monitor. This flexibility makes it a smart choice for a wide range of live sound applications. The rugged all-wood cabinet is easy to carry, thanks to handles on both sides (one on top for NX 910-A). The lower side includes a steel pole socket for mounting on a stand or a subwoofer pole. Each model can also be flown, wall- or truss-mounted using the six included M10 rigging points and special accessories. From the wood cabinet to the final texture and the rugged protective grille, NX 9 offers maximum strength for intensive use on the road and can be used for fixed installation.

BASS MOTION CONTROL

When searching for an extended bass with enhanced performance, RCF engineers found a way to remove the high-pass filter, replacing it with a forward-thinking approach. Introducing BMC (Bass Motion Control), the newly advanced woofer excursion management feature. NX 9 with BMC can handle the lowest audible frequencies without affecting the woofer stability, providing extended linearity and better sound integrity.

Active Control of Woofer Excursion

Free From High-Pass Filtering

Full-Range Limiter Removed

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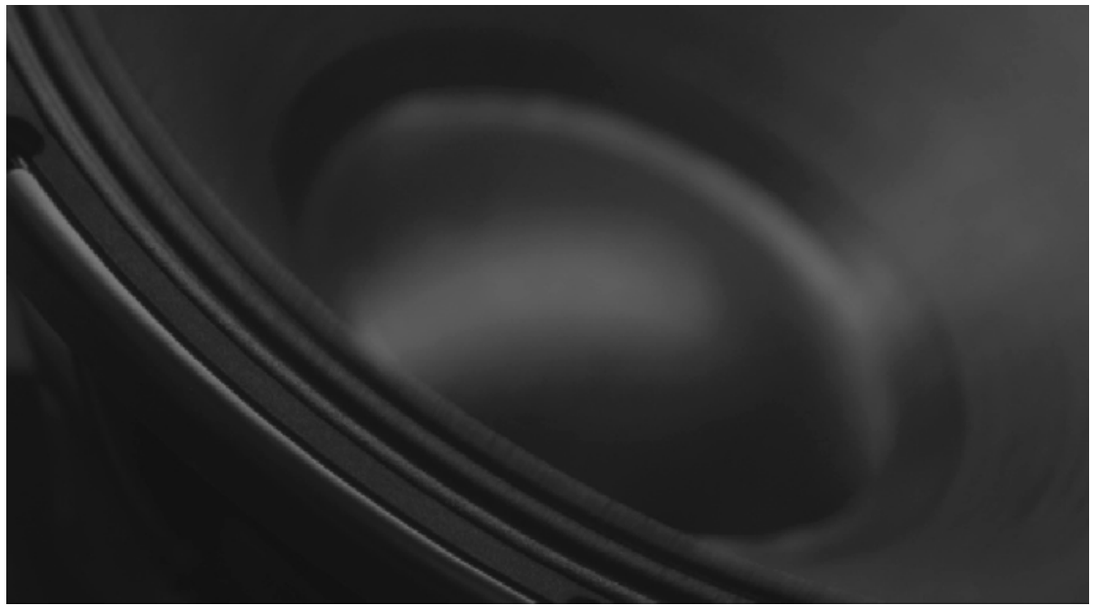
IMPROVED PERFORMANCE

CONSTANT TIMBRAL BALANCE



The BMC method works by creating a complete map of the dynamic behavior of the woofer, to generate a custom algorithm that only limits over-excursions. This gives total freedom of signal reproduction to the transducer. When high-pass filters normally protect the woofer motion from becoming destructive, but change the phase behavior, the new BMC algorithm breaks this rule. In combination with FiRPHASE technology, NX 9 has a new level of audio performance never achieved in this range of speakers.

FIRPHASE TECHNOLOGY

RCF speakers are designed using a proprietary and advanced FiR filtering technology, conceived to deliver transparent sound, absolute clarity and perfect stereo images to the listener.
The special FiRPHASE filters allow for coherent distribution of sound for all listeners without phase distortions, ensuring minimum latencies in the system.

PHASE MATTERS

The design of the FIR filter for this specific purpose should start from an accurate measurement of the loudspeaker phase.
FiRPHASE algorithm use this measurement and adapt the loudspeaker's phase without touching the amplitude equalization.
The advanced technique used by FiRPHASE is a recursive method (least squares method) combined with a proprietary algorithm that calculates the best FIR filter coefficients according to amplitude and phase constrains.
The algorithm corrects phase and amplitude (if necessary) by identifying the weak points of both the transducers and cabinet of the loudspeaker.
This technique allows a deep control of phase at mid-low frequency with relatively small filters, while also achieving a higher resolution than that one as theory suggests.

NX 915-A

The combination of 1.75” compression driver, 15” woofer, two-channel 2100W amplifier, and a constant directivity waveguide produces coherent 100° x 60° coverage for the listening area with up to 131 dB SPL, distortion-free sound.

- Up to 131 dB Sound Pressure Level
- 2100W Class-D Bi-Amplification
- 45-20000 Hz linear frequency response
- Wide 100° x 60° Constant Directivity
- 1600 Hz Crossover Frequency

15” Woofer,
3.5” voice coil

1.75” Compression Driver

- Height: 705 mm / 27.76”
- Width: 420 mm / 16.54”
- Depth: 451 mm / 17.76”
- Weight: 24.1 kg / 53.13 lbs

- Hardware: 2 x M10 Top, 1 x M10 each side, 1 x M10 bottom, 1 x M10 rear
- Handles: 1 x Each Side
- Pole mount/Cap: Yes

BASS MOTION CONTROL

FiRPHASE TECHNOLOGY

NX 912-A

The combination of 1.75” compression driver, 12” woofer, two-channel 2100W amplifier, and a constant directivity waveguide produces coherent 100° x 60° coverage for the listening area with up to 130 dB SPL of distortion-free sound.

- Up to 130 dB Sound Pressure Level
- 2100W Class-D Bi-Amplification
- 50-20000 Hz linear frequency response
- Wide 100° x 60° Constant Directivity
- 1600 Hz Crossover Frequency

12” Woofer,
2.5” voice coil

1.75” Compression Driver

- Height: 620 mm / 24.41”
- Width: 362 mm / 14.25”
- Depth: 405 mm / 15.94”
- Weight: 20.8 kg / 45.86 lbs

- Hardware: 2 x M10 Top, 1 x M10 each side, 1 x M10 bottom, 1 x M10 rear
- Handles: 1 x Each Side
- Pole mount/Cap: Yes

BASS MOTION CONTROL

FiRPHASE TECHNOLOGY

NX 910-A

The combination of 1.75” compression driver, 10” woofer, two-channel 2100W amplifier, and a constant directivity waveguide produces coherent 100° x 60° coverage for the listening area with up to 130 dB SPL of distortion-free sound

- Up to 130 dB Sound Pressure Level
- 2100W Class-D Bi-Amplification
- 50-20000 Hz linear frequency response
- Wide 100° x 60° Constant Directivity
- 1600 Hz Crossover Frequency

10” Woofer,
2.5” voice coil

1.75” Compression Driver

- Height: 510 mm / 20.08”
- Width: 295 mm / 11.61”
- Depth: 333 mm / 13.11”
- Weight: 16.4 kg / 36.16 lbs

- Hardware: 2 x M10 Top, 1 x M10 each side, 1 x M10 bottom, 1 x M10 rear
- Handles: 1 x Each Side
- Pole mount/Cap: Yes

BASS MOTION CONTROL

FiRPHASE TECHNOLOGY

NX 9 FEATURES

	NX 915-A	NX 912-A	NX 910-A
Acoustical specifications			
Frequency Response:	45 Hz ÷ 20 kHz	50 Hz ÷ 20 kHz	50 Hz ÷ 20 kHz
Max SPL @ 1m:	131 dB	130 dB	130 dB
Horizontal coverage angle	100°	100°	100°
Vertical coverage angle:	60°	60°	60°
Transducers			
Compression Driver:	1", 1.75" v.c	1", 1.75" v.c	1", 1.75" v.c
Woofer:	15", 2.5" v.c	12", 2.5" v.c	10", 2.5" v.c
Input/Output section			
Input signal:	bal/unbal	bal/unbal	bal/unbal
Input connectors:	XLR, Jack	XLR, Jack	XLR, Jack
Output connectors:	XLR	XLR	XLR
Input sensitivity:	-2 dBu/+4 dBu	-2 dBu/+4 dBu	-2 dBu/+4 dBu
Processor section			
Crossover Frequencies:	1600 Hz	1600 Hz	1600 Hz
Protections:	Thermal, RMS	Thermal, RMS	Thermal, RMS
Limiter:	Soft Limiter	Soft Limiter	Soft Limiter
Controls:	Linear, Boost, Stage, Volume	Linear, Boost, Stage, Volume	Linear, Boost, Stage, Volume
Power section			
Total Power:	2100 W Peak	2100 W Peak	2100 W Peak
High frequencies:	700 W Peak	700 W Peak	700 W Peak
Low frequencies:	1400 W Peak	1400 W Peak	1400 W Peak
Cooling:	Convection	Convection	Convection
Connections:	VDE	VDE	VDE
Standard compliance			
CE marking:	Yes	Yes	Yes
Physical specifications			
Cabinet/Case Material:	Plywood	Plywood	Plywood
Hardware:	2XM10 Top, 1XM10 each side, 1XM10 bottom, 1XM10 rear	2XM10 Top, 1XM10 each side, 1XM10 bottom, 1XM10 rear	2XM10 Top, 1XM10 each side, 1XM10 bottom, 1XM10 rear
Handles:	1 x Each Side	1 x Side	1 Top
Pole mount/Cap:	Yes	Yes	Yes
Grille:	Steel	Steel	Steel
Color:	Black	Black	Black
Size			
Height:	705 mm / 27.76"	620 mm / 24.41"	510 mm / 20.08"
Width:	420 mm / 16.54"	362 mm / 14.25"	295 mm / 11.61"
Depth:	451 mm / 17.76"	405 mm / 15.94"	333 mm / 13.11"
Weight:	24.1 kg / 53.13 lbs	20.8 kg / 45.86 lbs	16.4 kg / 36.16 lbs
PART NUMBER			
220-240V	**13000674**	**13000673**	**13000668**
115V	**13000690**	**13000689**	**13000688**

ACCESSORIES

COVERS

CVR NX 915 p.n. 13360497

Padded Cover for NX 915-A. It features heavy-duty weatherproof polyester outer fabric, foam rubber padding, and zip openings with Velcro fasteners. The frontal cover can be opened and blocked with velcro on one side. It features multiple openings for handles, for the rear connection panel, and the pole mount cap.

CVR NX 912 p.n. 13360496

Padded Cover for NX 912-A. It features heavy-duty weatherproof polyester outer fabric, foam rubber padding, and zip openings with Velcro fasteners. The frontal cover can be opened and blocked with velcro on one side. It features multiple openings for handles, for the rear connection panel, and the pole mount cap.

CVR NX 910 p.n. 13360495

Padded Cover for NX 910-A. It features heavy-duty weatherproof polyester outer fabric, foam rubber padding, and zip openings with Velcro fasteners. The frontal cover can be opened and blocked with velcro on one side. It features multiple openings for handles, for the rear connection panel, and the pole mount cap.

STACKING

AC PMA p.n. 13360034

Adjustable speaker pole mount.

AC PM-M20 p.n. 13360067

Adjustable pole for subwoofer.

AC PMX p.n. 13360232

Speaker pole mount with pushbutton system and hand crank to avoid uncontrolled reverse motion. Locking screw provides additional safety.

STACKING

AC PRO-FS p.n. 13360109

Steel speaker floor stand with folding base and telescopic rod. Tube diameter 35mm. Load capacity up to 50kg.

AC PRO-PM p.n. 13360110

Steel speaker pole mount with telescopic rod, tube diameter 35mm. Height adjustment using a non-scratching locking screw and safety pin. Moveable plastic splints separate the speaker from the stand creating a vibration-free connection. Easy to use ring lock.

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Note to specifications: audio power data refers to peak power

The data and designs are not binding. RCF reserves the right to modify the data and designs at any time and without previous notice.