



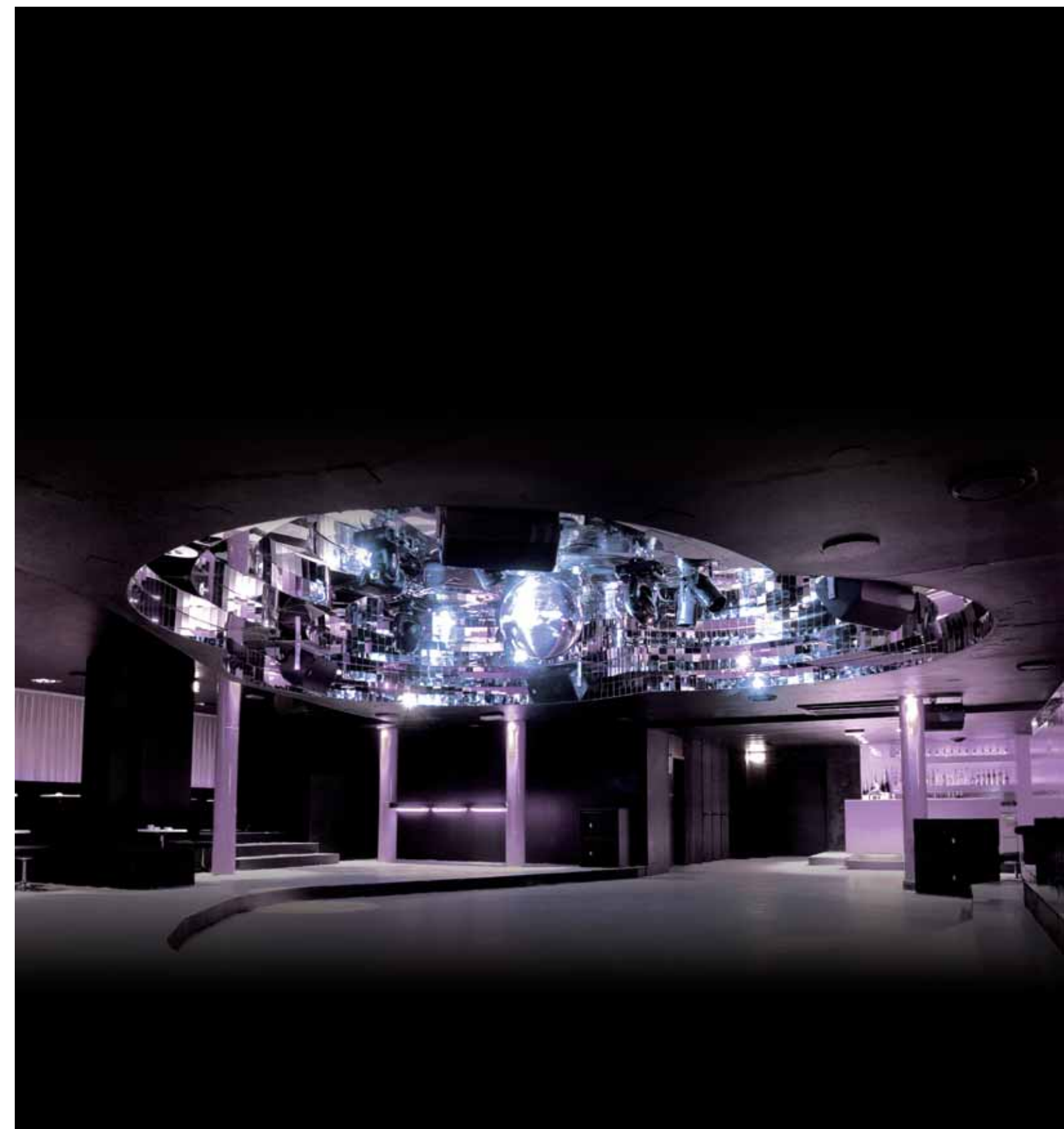
RCFACUSTICA

INSTALLED SOUND SPEAKER SYSTEMS

the rules of sound

RCF

ENG 2008

A photograph of a modern interior space, likely a club or lounge. The ceiling is a large, curved, reflective structure that mirrors the lights and the interior. The floor is a smooth, light-colored surface. In the background, there is a bar area with shelves of bottles and a counter. The overall atmosphere is sophisticated and contemporary.

"Whatever is its application - clubs, live shows, theatres, stadia or shopping malls - the RCFACUSTICA Installed Sound Speaker Systems offers superior sound definition and impressive volume power."

RCFACUSTICA represents a prominent chapter in the long history of RCF Installed Sound Systems.

Whether a speaker system is designed for portable PA situations or for permanent installed sound applications in café or theme bars, retail outlets, places of worship, theatres, live venues, dance clubs or major sporting stadia the paying customer now expects a level of audio fidelity and intelligibility of such a standard unsurpassed by previous generations. This requirement has fostered the need for Audio Professionals to be able to offer a range of speaker systems combined with dedicated Processing and Amplification Technologies that are superior in Acoustic Performance and Control Technology.



RCFACUSTICA is a complete portfolio to satisfy all these needs.

From extremely compact near and medium field "two way systems" through to "large format" arrayable systems for stadia and long throw sound reinforcement applications. The individual product families within RCFACUSTICA offers dedicated controlled horn directivity, RCF Precision Woofers and Compression Drivers, RCF Exclusive "LICC" Crossover Systems, matching amplification and control systems to fully optimise the high performance and long term reliability RCF is renowned for. RCFACUSTICA speakers offer "CMD" Coverage Matching Design, providing consistent horizontal and vertical pattern control through the usable frequency range.



RCFACUSTICA



RCF is one of only a few loudspeaker manufacturers worldwide who completely manufactures transducers, speaker systems and amplification and control electronics. Our 50 plus years heritage in Audio combined with our state of the art research and development and manufacturing processes is providing us the goal of offering a dedicated matching line up of systems within RCFACUSTICA.

COMPACT SERIES

The RCFACUSTICA COMPACT Series is a highly advanced line up of compact near field 'two way direct radiating' loudspeaker systems offering dedicated models with focused horn directivity, designed for both portable and permanent installation applications. The several mounting points, the pole mount and handles simplify installation.

RCFACUSTICA COMPACT Series represent a no compromise design and construction, offering a very natural sound in live situations and recorded music. The two way designs within the COMPACT Series offer RCF Exclusive 'CMD' Technology. (Coverage Matching Design), this helps guarantee the smooth transition between the high frequency horns polar responses and low frequency transducers directivity.

The compression drivers used in the Compact Series designs are the very latest in neodymium magnetic circuit technology. The low frequency drivers used in the Compact Series can withstand peak power of up to 6 times the nominal power. These mid bass woofers have been designed for superior reproduction of acoustic signals up to the crossover frequency. All Compact Series Speakers are equipped with high power handling low impedance crossover designs.

All Compact Series cabinets are in Baltic birch, heavy duty painted. Free from spurious vibrations, they offer a strong construction at the highest levels in the professional market.



SUBWOOFERS SERIES

Sound systems designed for almost any application benefit from the addition of extended low frequency or sub bass. True natural reproduction of music requires that the sound system's output should extend into the lowest octaves of the audible spectrum.

Whether it is for the provision of subtle dynamic sound for A/V applications, the raw power of a 'bass drum kick' or an air moving club sub bass system - RCF has the solution.

The RCFACUSTICA SUBWOOFER Series is a highly advanced line up of compact subwoofers, offering dedicated models in various configurations (bass reflex, bandpass and horn loaded), specially designed for permanent installation applications.

P Series Professional Speaker Systems are a new addition to the RCFACUSTICA catalogue of 'Audio Contractor' installation speaker systems.

The RCFACUSTICA P Series are highly efficient coaxial designs offering excellent music and speech intelligibility in compact lightweight weatherproof designs offering protection up to the highest rating standard. However

H SERIES

The new RCFACUSTICA H Series is designed to provide the output and directivity required for larger scale installations. The systems offer a full range approach in arrayable configurations. With the new H Series, RCF have created designs capable of delivering high efficiency output and controlled directivity. Systems can be easily converted from vertical installation mode to space saving horizontal placement. The H Series feature finitely tuned compact horn loaded design parameters utilising new RCF Precision Transducers and horn technology.

The RCFACUSTICA H Series cabinets are constructed from the highest quality Baltic Birch Plywood and finished in an extremely resistant epoxy paint finish.

The cabinets are a 'multi-trapezoid' which assists double coupling array configurations. Extensive fly-ware positions are provided for ease of installation.



P SERIES

the design aesthetics of the P Series will allow architectural choices for indoor installations in tough environments as well as outdoor applications. The cabinets are constructed from a heavy duty but light in weight 'Rotomoulded' plastic resin UV stabilised material. For all models, the front grille construction and included yoke bracket system are made of Aluminium and Stainless Steel.



RCFACUSTICA

RCFACUSTICA TECHNOLOGIES

PURE TITANIUM DIAPHRAGMS

RCF has developed an oxygen free process of moulding pure titanium ultra thin films in high quality, finely controlled shaped diaphragms. Our process offers superior sonic quality, extended to the highest audible frequencies which guarantee consistent power handling and reliability.

VOICE COIL - POWER COMPRESSION

Power Compression is the neglected factor in many professional audio system designs. In woofers and subwoofers the power compression at maximum rated power can vary from 3-4 dB for good designs and up to 6-7 dB for poorly vented or small coil designs. This will affect not only the final achievable sound pressure level (SPL) but also the transducer Thiele-Small parameters, dramatically changing the high power curve response and sound characteristics. For this reason all our woofer and subwoofer designs are equipped with large sized, properly vented inside/outside voice coils.

This guarantees the long term reliability and life of the product.

"All our woofer and subwoofer designs are equipped with large sized, properly vented inside/outside voice coils."

INSIDE/OUTSIDE VOICE COILS

RCF has developed a unique voice coil, combining the advantages of inside/outside technology to the superior quality of polyimide-imide materials (wire resins and former resins).

The inside/outside coil offers many advantages:

- the dissipation surface is doubled;
- the adhesion area to the former is doubled;
- during thermal expansion the former is squeezed between inside and outside layers offering the best mechanical resistance.

Our former is made from polyimide - imide fibreglass and the area between the coil and the cone is a triple layer of nomex - fibreglass - nomex for maximum stiffness and accurate sound transfer.

NEODYMIUM MAGNETS

Our Precision Compression Drivers and Woofers are equipped with high thermal performance with high performance lightweight Neodymium magnets, offering advantages in system portability and high frequency clarity (due to the force of magnetic flux in the gap exceeding 2 Kilogauss).

Specific attention has been paid to magnetic circuit polarization for optimum thermal immunity.

“Direct Drive guarantees optimal transfer of energy between the voice coil and the dome assembly”

DIRECT DRIVE VOICE COIL ASSEMBLY

Our voice coil assemblies are designed using high strength high temperature Nomex® voice coil Formers with rectangular profile copper clad aluminium wire, which are assembled using advanced specially formulated adhesives. Proprietary curing processes ensure optimal assembly strength and safe operation even under extreme thermal conditions. The top of the Former is bent and bonded directly to the edge of the titanium diaphragm resulting in a Direct Drive configuration.

Direct Drive guarantees optimal transfer of energy between the voice coil and the dome assembly, providing smoother, extended frequency response beyond 10 KHz, reducing break up modes and lowering distortion. This assembly delivers high power handling along with excellent mechanical and thermal properties that make RCF Precision Series compression drivers robust and reliable.

LICC LOW IMPEDANCE COMPENSATED CROSSOVERS

All our passive speakers are equipped with high power handling low impedance crossover designs.

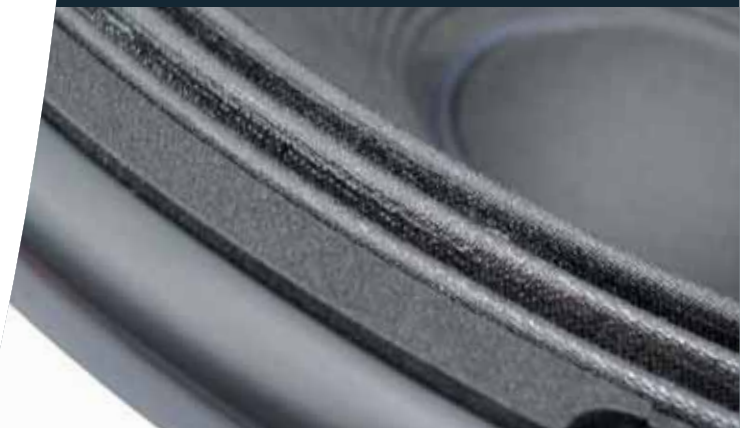
The low impedance compensated crossover is an RCF first, and a breakthrough in crossover design.

Conventional passive crossovers have an approximate 180 degree phase shift between the woofer and tweeter at the crossover point. Such a system cannot reproduce transients correctly, causing negative effects on sound accuracy that are particularly noticeable with violin, trumpet, piano and vocals.

Very low inductance values are used in the LICC, thus providing an excellent transient response and drastically reducing phase shifts between woofer and tweeter. As a result, LICC provides well-defined natural and open sound - across the entire audio bandwidth.



“Very low inductance values are used in the LICC, thus providing an excellent transient response and drastically reducing phase shifts between woofer and tweeter.”

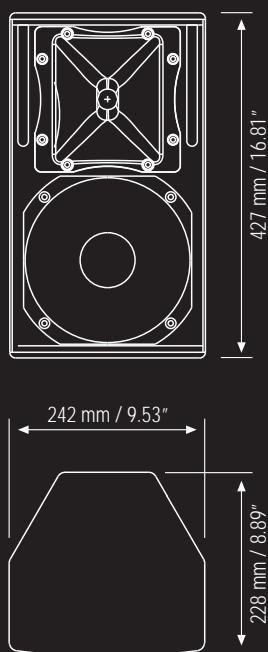


130.00.030 - 130.00.108 (white)

C3108

The C3108 is a full range extremely versatile wide-dispersion, low-profile, two-way loudspeaker system offering substantial power and efficiency for a variety of professional applications that include permanent installations, main reinforcement in small spaces, plus portable systems and supplementary fill for larger systems. Its compact size makes it ideal for low visibility side wall or under balcony mounting. The high-frequency section is a constant directivity CMD horn designed mathematically for Constant Matching Design in relation to the woofer system, loaded to a 1" RCF Precision Neodymium compression driver with a 1.50" diaphragm assembly for smooth, wide dispersion.

The low-frequency transducer is an 8" RCF Precision woofer with a 2" voice coil. The system includes a high-level crossover network that features markedly lower (than conventional) induction values in series with the woofer. We call this innovation LICC (Low Impedance Compensated Crossover). The benefit is delay reduction, reduced phase shift and superior transient response. Dynamic high-frequency driver protection is accomplished with a new RCF exclusive - Active Mosfet Compression Driver Protection System, (AMCDP) chosen to complement the power curve of the driver.



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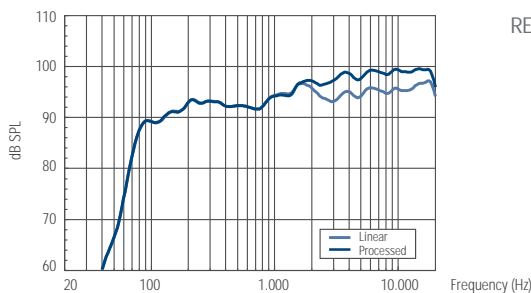


FEATURES

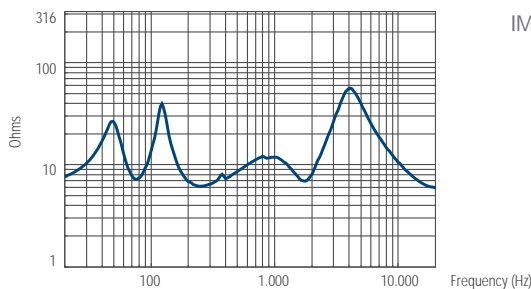
- 90°x 70° CMD (Constant Matching Design) constant directivity horn
- Linear/HF boost switch
- Rotatable Horn System for horizontal cabinet mounting applications
- HF driver AMCDP (Active Mosfet Compression Driver Protection)
- LICC (Low Impedance Compensated Crossover) network
- 4 Suspension points (M10)
- Omnimount™ 75 Plate fixing positions on rear of cabinet
- 35 mm standard internal pole mount

APPLICATIONS

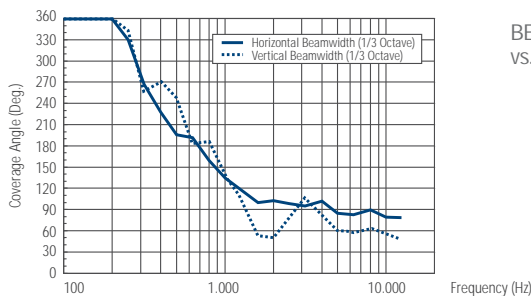
- Permanent Installations
- Main Reinforcement in small spaces
- Portable Systems AV Presentations
- Zone Delay and Fill Systems
- Under Balcony Applications



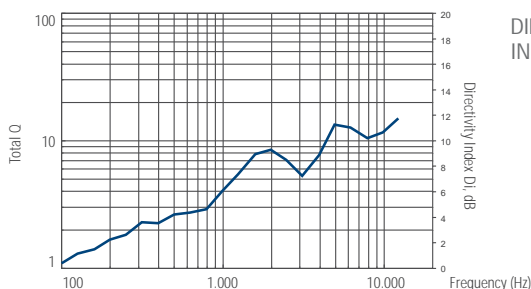
RESPONSE 1W/1m



IMPEDANCE



BEAMWIDTH
vs. FREQUENCY



DIRECTIVITY
INDEX AND Q

CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42100 Mancasale, Reggio Emilia, Italy.- B. Model number: C3108

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 8" mid-bass, 2" voice coil - HF Sub-section 1" neodymium, 1.5" aluminium voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 90° - Vertical: 70° - Axial frequency range: 60 Hz-20 kHz - Axial sensitivity: 94 dB, 1W @ 1m - Power handling: Applicable power 300 W RMS - Musical power 600 W Peak power 1200 W - Nominal impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 15° side angles 10 mm birch plywood construction - Rigging inserts: 3 x M10 inserts (1 top, 2 side), 4 X M5 inserts (rear for bracket omni mount), 2 X M6 inserts (rear) + pole mount or with optional accessory AC C08 H-BR 1 M10 inserts (bottom) - Color: Black, white, scratch resistant paint - Grille: Custom perforated steel grille - Input Connectors: 2 X Speakon® NL4 - Dimensions (H x W x D): 16.81" x 9.52" x 8.98" - 427 x 242 x 228 mm Weight: 22 lb - 10Kg.

2.05 Accessories

AC C08 H-BR Pair of bracket for mounting C3108 speakers on the wall. Adjustable inclination horizontal. Colour black.

AC C08 V-BR Pair of bracket for mounting C3108 speakers on the wall. Adjustable inclination vertical. Colour black.

SYSTEM

FREQ. RANGE (-10 dB): 60 Hz - 20 kHz

FREQ. RANGE (-3 dB): 100 Hz - 18 kHz

HORIZ. COVERAGE ANGLE (-6 dB): 90°

VERTICAL COVERAGE ANGLE (-6 dB): 70°

DIRECTIVITY FACTOR; Q: 9.4

SYSTEM SENSITIVITY: 94 dB , 1W @ 1m ⁽¹⁾

RATED MAXIMUM SPL: 120 dB, @ 1m

SYSTEM NOMINAL IMPEDANCE: 8 Ohm

SYSTEM INPUT POWER RATING RMS: 300 W ⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 1200 W

RECOMMENDED AMPLIFIER: 600 W ⁽³⁾

HF PROTECTION: Dynamic

CROSSOVER: 2,1 kHz

TRANSDUCERS

LOW FREQUENCY: 8" (203 mm) woofer with 2" (50 mm) coil

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 200 W AES ; 400 W Peak

SENSITIVITY: 94 dB, 1W @ 1m

HIGH FREQUENCY: 1" (25mm) throat, 1.5" (35,5mm)

coil diaphragm assembly

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 25 W AES ; 50 W Peak

SENSITIVITY: 109 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Trapezoidal, 15° side angles

10 mm birch plywood construction

RIGGING INSERTS: 3 x M10, 4 X M5, 2 X M6 inserts + pole mount

COLOR: Black, white, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: Speakon® NL4

DIMENSIONS (H x W x D): 16.81" x 9.52" x 8.98" - 427 x 242 x 228 mm

WEIGHT: 22 lb - 10 Kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

130.00.169 - 130.00.177 (white)

C4128

The C4128 is a full range 2 way high sensitivity passive system, compact and versatile.

The C 4128 is a two-way, dual woofer, passive loudspeaker designed to provide extended low frequency performance from a compact vented enclosure.

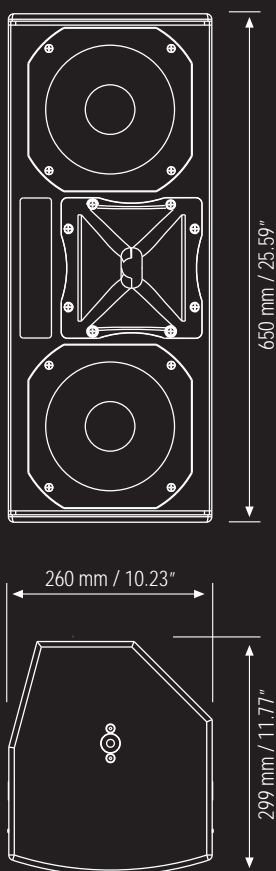
It features advanced technology, latest generation transducers: the 8" woofers are equipped with a 2" voice coil and the 1" neodymium compression driver is equipped with a 1.5" voice coil, mounted on a rotatable 90 x 70 constant directivity horn, providing very natural sound reproduction.

It is the optimum choice for a variety of fixed or portable applications, thanks also to the pole mount, the very light weight and small size.

It features four M10 mounting points for horizontal or vertical U-bracket, cabinet is asymmetric (15 and 45°) for versatile ceiling/wall installation and floor monitoring operation.

The C4128 can be used as a main speaker in small-medium, near field systems or as a fill/delay element in bigger systems. The design also permits optimum use in Theatre 'Under Balcony Applications'.

The wide coverage angle and the true constant directivity of the newly designed horn make very easy the coverage of a large audience; the crossover design guarantees the perfect pattern matching of woofer and compression driver and includes active electronic protection for the driver. The possibility to rotate the horn optimises both horizontal or vertical installations.



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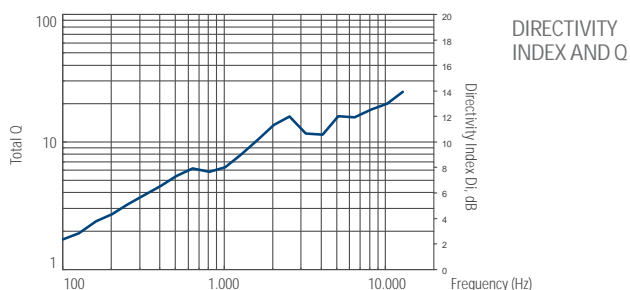
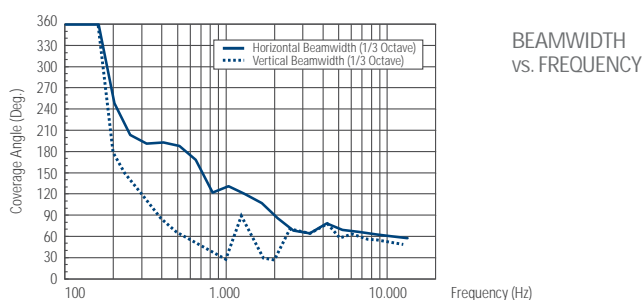
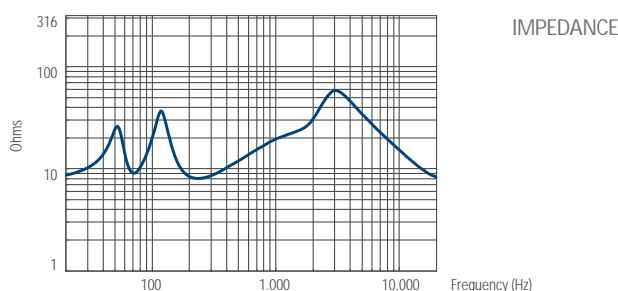
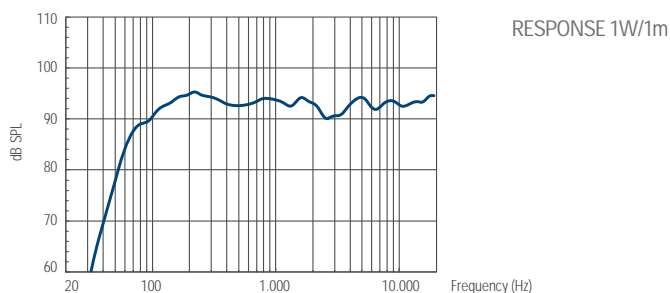


FEATURES

- High efficiency
- Active Mosfet Compression Driver Protection
- LICC Crossover
- CMD Design
- Rotatable horn
- M10 mounting points
- Asymmetrical cabinet under-balcony/wedge monitor applications

APPLICATIONS

- Permanent Installations
- Main Reinforcement in small spaces
- Portable Systems AV Presentations
- Zone Delay and Fill Systems
- Under Balcony Applications
- Stage monitor in multimedia environments, auditoriums house of worship



CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42100 Mancasale, Reggio Emilia, Italy.- B. Model number: C4128

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 2 x 8" mid-bass, 2" voice coil - HF Sub-section 1" neodymium, 1.5" aluminium voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 90° - Vertical: 70° - Axial frequency range: 60 Hz-20 kHz - Axial sensitivity: 96 dB, 1W @ 1m - Power handling: Applicable power 400 W RMS - Musical power 800 W Peak power 1600 W - Nominal impedance: 16 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 15° - 45° side angles 10 mm birch plywood construction - Rigging inserts: 3 x M10 inserts (1 top, 2 side), 4 X M5 inserts (rear for bracket omni mount), 2 X M6 inserts (rear) + pole mount - Color: Black, scratch resistant paint - Grille: Custom perforated steel grille - Input Connectors: 2 X Speakon® NL4 - Dimensions (H x W x D): 25.59" x 10.23" x 11.77" - 650 x 260 x 299 mm Weight: 38.36 lb - 17.4Kg.

2.05 Accessories

AC C28 H-BR Pair of bracket for mounting C4128 speakers on the wall. Adjustable inclination horizontal. Colour black.

AC C28 V-BR Pair of bracket for mounting C4128 speakers on the wall. Adjustable inclination vertical. Colour black.

SYSTEM

FREQ. RANGE (-10 dB): 100 Hz - 20 kHz

FREQ. RANGE (-3 dB): 150 Hz - 15 kHz

HORIZ. COVERAGE ANGLE (-6 dB): 150°

VERTICAL COVERAGE ANGLE (-6 dB): 30°

DIRECTIVITY FACTOR; Q: 9.25

SYSTEM SENSITIVITY: 96 dB , 1W @ 1m ⁽¹⁾

RATED MAXIMUM SPL: 122 dB, @ 1m

SYSTEM NOMINAL IMPEDANCE: 8 Ohm

SYSTEM INPUT POWER RATING RMS: 400 W ⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 1600 W

RECOMMENDED AMPLIFIER: 800 W ⁽³⁾

HF PROTECTION: Dynamic

CROSSOVER: 2,1 kHz

TRANSDUCERS

LOW FREQUENCY: 2 x 8" (203 mm) woofer with 2" (50 mm) coil

NOMINAL IMPEDANCE: 16 Ohm

INPUT POWER RATING: 200 W AES ; 400 W Peak

SENSITIVITY: 94 dB, 1W @ 1m

HIGH FREQUENCY: 1" (25mm) throat, 1.5" (35,5mm) coil diaphragm assembly

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 25 W AES ; 50 W Peak

SENSITIVITY: 109 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Trapezoidal, 15° side angles

10 mm birch plywood construction

RIGGING INSERTS: 3 x M10, 4 X M5, 2 X M6 inserts + pole mount

COLOR: Black, white, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: Speakon® NL4

DIMENSIONS (H x W x D): 25.59"x 10.23"x 11.77" - 650 x 260 x 299 mm

WEIGHT: 38.36 lb - 17.4 Kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

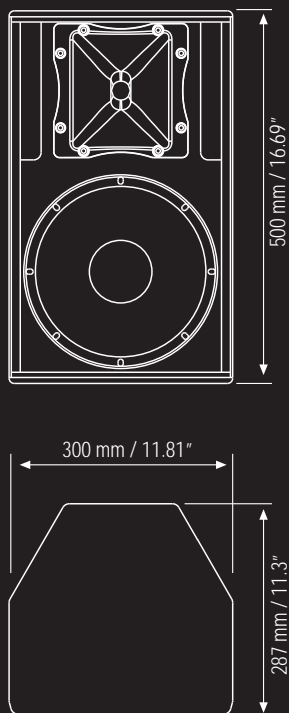
130.00.043 - 130.00.109 (white)

C3110

The C3110 is a full range extremely versatile wide-dispersion, low-profile, two-way loudspeaker system offering substantial power and efficiency for a variety of professional applications that include permanent installations, main reinforcement in small spaces, plus portable systems and supplementary fill for larger systems. Its compact size makes it ideal for low visibility side wall or under balcony mounting. The high-frequency section is a constant directivity CMD horn designed mathematically for Constant Matching Design in relation to the woofer system, loaded to a 1" RCF Precision Neodymium compression driver with a 1.50" diaphragm assembly for smooth, wide dispersion.

The low-frequency transducer is a 10" RCF Precision woofer with a 2" voice coil.

The system includes a high-level crossover network that features markedly lower (than conventional) induction values in series with the woofer. We call this innovation LICC (Low Impedance Compensated Crossover). The benefit is delay reduction, reduced phase shift and superior transient response. Dynamic high-frequency driver protection is accomplished with a new RCF exclusive - Active Mosfet Compression Driver Protection System, (AMCDP) chosen to complement the power curve of the driver.



AVAILABLE
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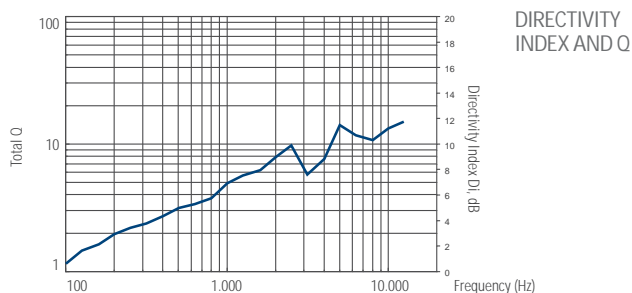
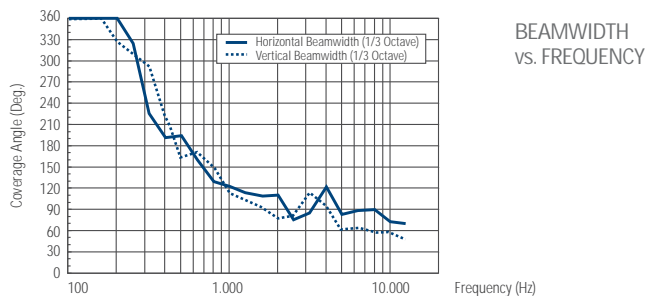
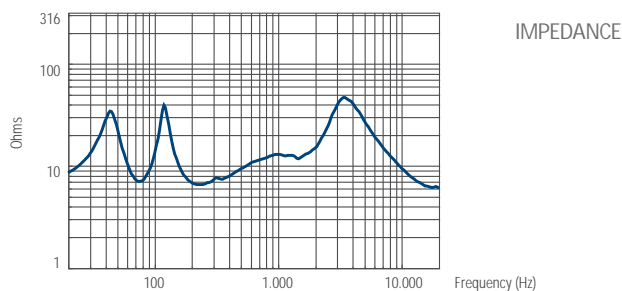
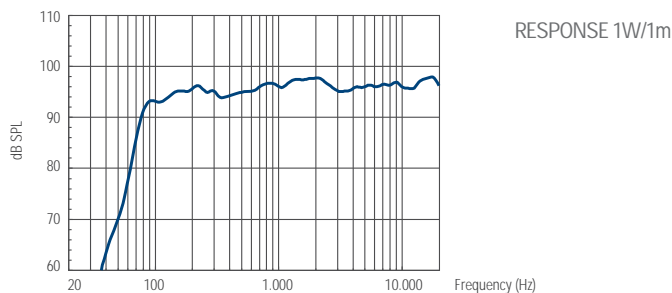


FEATURES

- 90° x 70° CMD (Constant Matching Design) constant directivity horn
- Rotatable Horn System for horizontal cabinet mounting applications
- HF driver AMCDP (Active Mosfet Compression Driver Protection)
- LICC (Low Impedance Compensated Crossover) network
- 4 Suspension points (M10)
- 35 mm standard internal pole mount

APPLICATIONS

- Permanent Installations
- Main Reinforcement in small spaces
- Portable Systems AV Presentations
- Zone Delay and Fill Systems
- Under Balcony Applications



CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

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PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42100 Mancasale, Reggio Emilia, Italy. - B. Model number: C3110

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 10" mid-bass, 2" voice coil - HF Sub-section 1" neodymium, 1.5" aluminium voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 90° - Vertical: 70° - Axial frequency range: 59 Hz - 20 kHz - Axial sensitivity: 94 dB, 1W @ 1m - Power handling: Applicable power 300 W RMS - Musical power 600 W Peak power 1200W - Nominal impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 15° side angles 15 mm birch plywood construction - Rigging inserts: 3 x M10 inserts (1 top, 2 side), 2 X M6 inserts (rear) + pole mount or with optional accessory AC C10 H-BR 1 M10 inserts (bottom) - Color: Black, white, scratch resistant paint - Grille: Custom perforated steel grille - Input Connectors: 2 X Speakon® NL4 - Dimensions (H x W x D): 19.68" x 11.81" x 11.30" - 500 x 300 x 287 mm Weight: 28.66 lb - 13 Kg.

2.05 Accessories

AC C10 H-BR Pair of bracket for mounting C3110 speakers on the wall. Adjustable inclination horizontal. Colour black.

AC C10 V-BR Pair of bracket for mounting C3110 speakers on the wall. Adjustable inclination vertical. Colour black.

SYSTEM

FREQ. RANGE (-10 DB): 59 Hz-20 kHz

FREQ. RANGE (-3 DB): 70 Hz-20 kHz

HORIZ. COVERAGE ANGLE (-6 DB): 90°

VERTICAL COVERAGE ANGLE (-6 DB): 70°

DIRECTIVITY FACTOR; Q: 9.4

SYSTEM SENSITIVITY: 96 dB 1W @ 1m ⁽¹⁾

RATED MAXIMUM SPL: 127 dB. @ 1m

SYSTEM NOMINAL IMPEDANCE: 8 Ohm

SYSTEM INPUT POWER RATING RMS: 300 W ⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 1200 W

RECOMMENDED AMPLIFIER: 600 W ⁽³⁾

HF PROTECTION: Dynamic

CROSSOVER: 1.8 kHz

TRANSDUCERS

LOW FREQUENCY: 10" (254 mm) woofer with 2" (50 mm) coil

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 250 W AES ; 400 W Peak

SENSITIVITY: 96 dB. 1W @ 1m

HIGH FREQUENCY: 1" (25 mm) throat. 1.5" (35.5 mm)

coil diaphragm assembly

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 25 W AES ; 50 W Peak

SENSITIVITY: 109 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Trapezoidal, 15° side angles

15 mm birch plywood construction

RIGGING INSERTS: 3 x M10, 2 x M6 inserts + pole mount

COLOR: Black, white, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: Speakon® NL4

DIMENSIONS (H x W x D): 19.68" x 11.81" x 11.30" - 500 x 300 x 287 mm

WEIGHT: 28.66 lb - 13 Kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

C5212-W (90x40) WIDE ANGLE
130.00.044 - 130.00.112 (white)

C5212-L (60x40) LONGER THROW
130.00.045 - 130.00.111 (white)

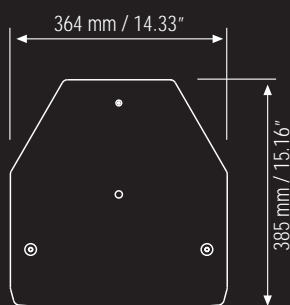
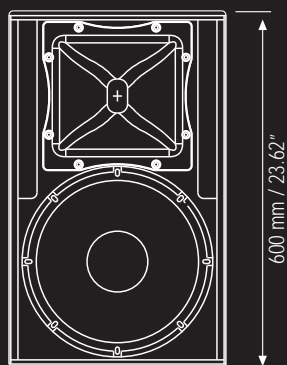
C5212 W-L

The C5212 is a full range extremely versatile wide-dispersion (model W) or narrow dispersion (model L), two-way loudspeaker system offering substantial power and efficiency for a variety of professional applications that include permanent installations, primary sound reinforcement, plus portable systems and supplementary fill for larger systems.

The high-frequency section is a constant directivity CMD horn designed mathematically for Constant Matching Design in relation to the woofer system, loaded to a 2" RCF Precision Neodymium compression driver with a 2.50" diaphragm assembly for smooth, wide dispersion. The low-frequency transducer is a 12" RCF Precision woofer with a 3" voice coil.

The system includes a high-level crossover network that features markedly lower (than conventional) inductance values in series with the woofer. We call this innovation LICC (Low Impedance Compensated Crossover). The benefit is delay reduction, reduced phase shift and superior transient response.

Dynamic high-frequency driver protection is accomplished with a new RCF exclusive - Active Mosfet Compression Driver Protection System, (AMCDP) chosen to complement the power curve of the driver. The C5212's crossover is easily bypassed for bi-amp via a recessed changeover switch.



AVAILABLE
ALSO IN WHITE

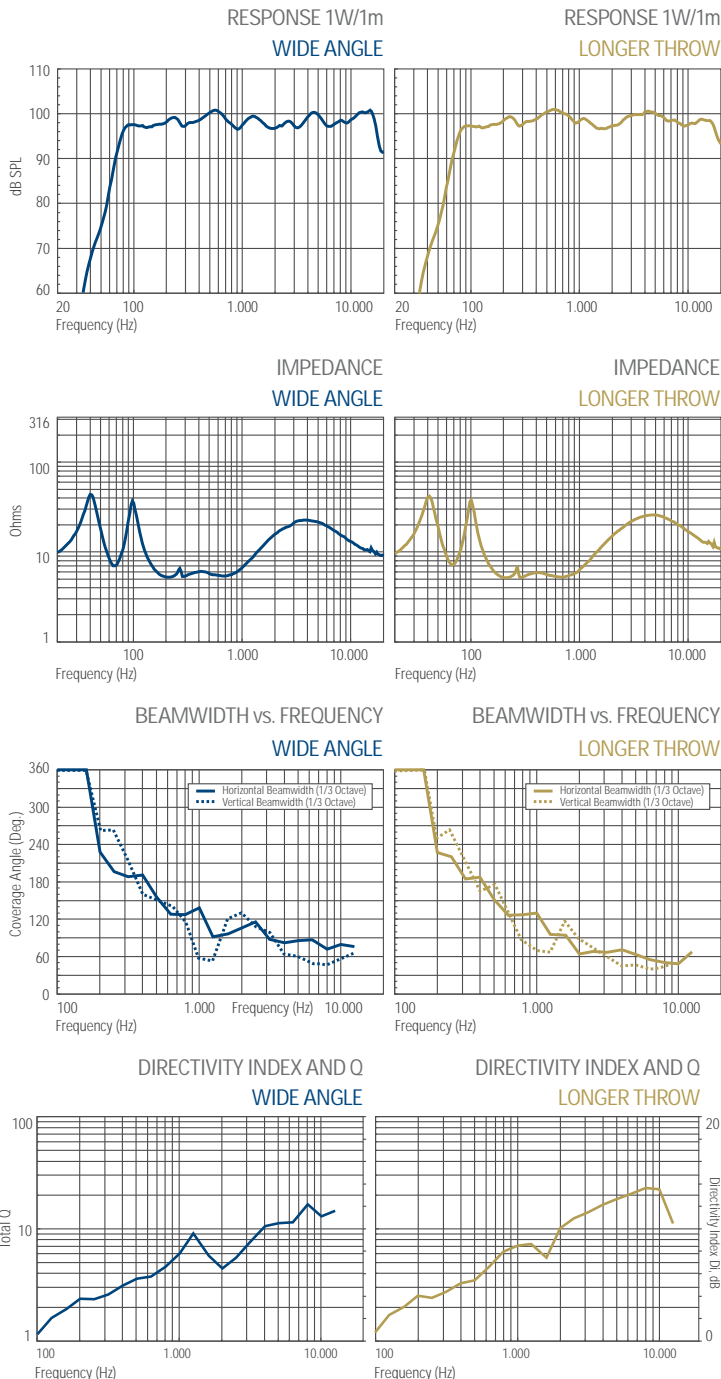


FEATURES

- 60° x 40° CMD (Constant Matching Design) constant directivity horn – Model L
- 90° x 40° CMD (Constant Matching Design) constant directivity horn – Model W
- Dual-function design: built in passive crossover or external bi-amp
- Rotatable Horn System for horizontal cabinet mounting applications
- HF driver AMCDP (Active Mosfet Compression Driver Protection)
- LICC (Low Impedance Compensated Crossover) network
- 9 Suspension points (M10)
- 35 mm standard internal pole mount

APPLICATIONS

- Permanent Installations
- Main Reinforcement in small and medium spaces
- High-Level AV Playback
- Cluster configurations
- Live Music Reinforcement
- 60° x 40° horn design offers higher sensitivity for longer distance applications



CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42100 Mancasale, Reggio Emilia, Italy. - B. Model number: C5215L

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 15" mid-bass, 3" voice coil - HF Sub-section 2" neodymium, 2.5" aluminium voice coil.

2.03 Acoustical Proprieties

Nominal dispersion angle: Horizontal: 60° - Vertical: 40° - Axial frequency range: 48Hz-20kHz - Axial sensitivity: 101 dB, 1W @ 1m - Power handling: Applicable power 500 W RMS - Musical power 1000 W - Peak power 2000 W - Nominal impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 15° side angles 19 mm birch plywood construction - Rigging inserts: 9 x M10 inserts (3 top, 2 side, 2 rear and 2 bottom), + pole mount or with optional accessory AC C08 H-BR 1 M10 inserts (bottom) - Color: Black, white, scratch resistant paint - Grille: Custom perforated steel grille - Input Connectors: 2 X Speakon® NL4 - Dimensions (H x W x D): 27.16" x 16.06" x 17.72" - 690 x 408 x 450 mm Weight: 66.13 lb - 30 Kg.

2.05 Accessories

AC C15 H-BR Pair of bracket for mounting C5215L speakers on the wall. Adjustable inclination horizontal. Colour black.

AC C15 V-BR Pair of bracket for mounting C5215L speakers on the wall. Adjustable inclination vertical. Colour black.

SYSTEM

FREQ. RANGE (-10 DB): 54 Hz-20 kHz

FREQ. RANGE (-3 DB): 65 Hz-20 kHz

HORIZ. COVERAGE ANGLE (-6 DB): C5212W, 90°

C5212L, 60°

VERTICAL COVERAGE ANGLE (-6 DB): 40°

DIRECTIVITY FACTOR: Q: 10

SYSTEM SENSITIVITY: C5212W 99 dB 1W @ 1m,⁽¹⁾

C5212L 100 dB 1W @ 1m⁽¹⁾

RATED MAXIMUM SPL: C5212W 132 dB @ 1M,

C5212L 133 dB @ 1m

SYSTEM NOMINAL IMPEDANCE: 8 Ohm

SYSTEM INPUT POWER RATING RMS: 500 W⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 2000 W

RECOMMENDED AMPLIFIER: 1000 W⁽³⁾

HF PROTECTION: Dynamic

CROSSOVER: 1,2 kHz

TRANSDUCERS

LOW FREQUENCY: 12" (304,8 mm) woofer with 3" (76,2 mm) coil

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 400W AES ; 800W Peak

SENSITIVITY: 98 dB, 1W @ 1m

HIGH FREQUENCY: 2" (50 mm) throat, 2.5" (64 mm)

coil diaphragm assembly

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 100W AES ; 200W Peak

SENSITIVITY: 111 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Trapezoidal, 15° side angles

15 mm birch plywood construction

RIGGING INSERTS: 9 x M10 inserts + pole mount

COLOR: Black, white, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: Speakon® NL4

DIMENSIONS (H x W x D): 23.62" x 14.33" x 15.16" - 600 x 364 x 385 mm

WEIGHT: 50.7 lb - 23 Kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

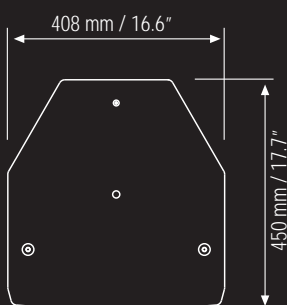
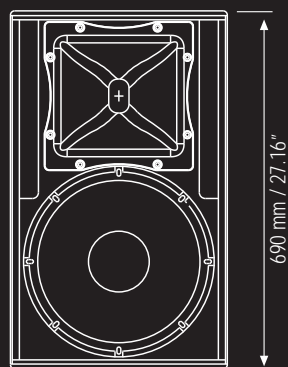
C5215-W (90x40) WIDE ANGLE
130.00.046 - 130.00.114 (white)

C5215-L (60x40) LONGER THROW
130.00.047 - 130.00.113 (white)

C5215 W-L

The C5215 is a full range extremely versatile controlled narrow-dispersion (model L) or wide dispersion (model W), two-way loudspeaker system offering substantial power and efficiency for a variety of professional applications that include permanent installations, primary sound reinforcement, plus portable systems and supplementary fill for larger systems. The high-frequency section is a constant directivity CMD horn designed mathematically for Constant Matching Design in relation to the woofer system, loaded to a 2" RCF Precision Neodymium compression driver with a 2.50" diaphragm assembly for smooth, controlled dispersion. The low-frequency transducer is a 15" RCF

Precision woofer with a 3" voice coil. The system includes a high-level crossover network that features markedly lower (than conventional) induction values in series with the woofer. We call this innovation LICC (Low Impedance Compensated Crossover). The benefit is delay reduction, reduced phase shift and superior transient response. Dynamic high-frequency driver protection is accomplished with a new RCF exclusive - Active Mosfet Compression Driver Protection System, (AMCDP) chosen to complement the power curve of the driver. The C5215L's crossover is easily bypassed for bi-amp via a recessed changeover switch.

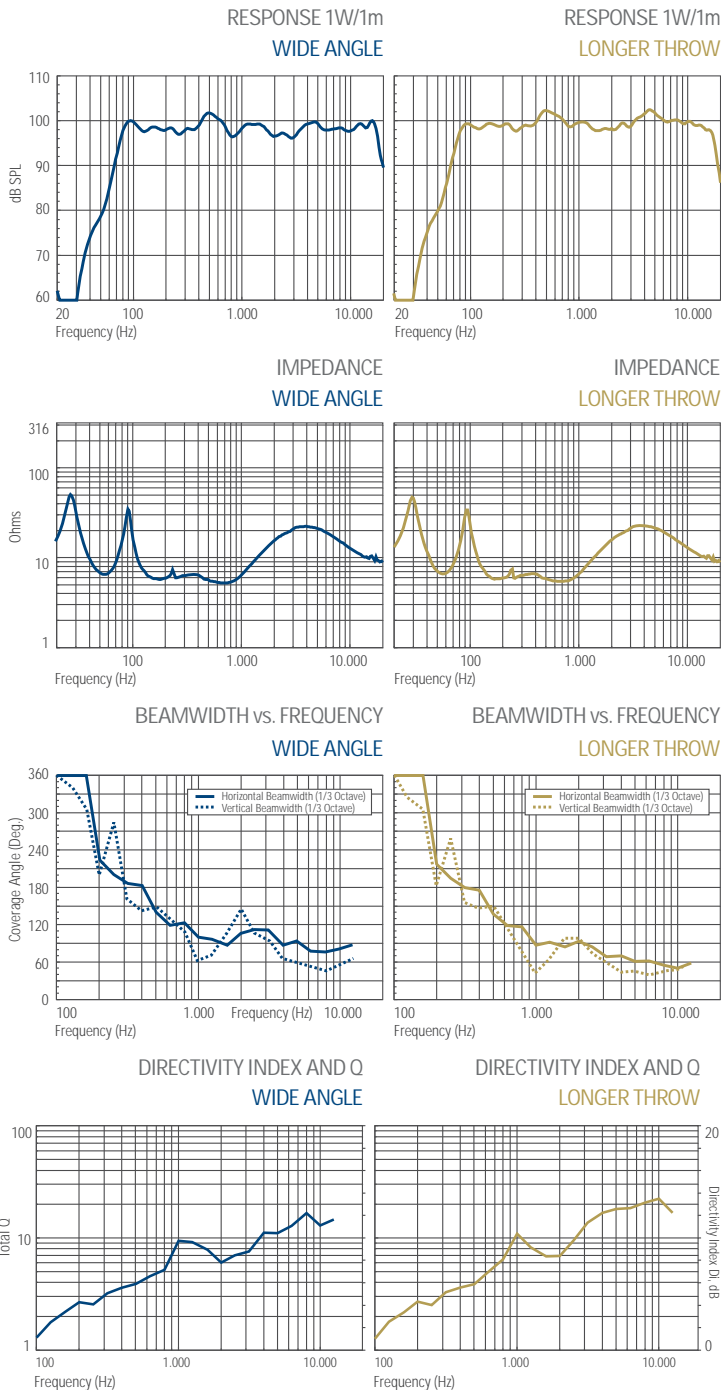


FEATURES

- 60° x 40° CMD (Constant Matching Design) constant directivity horn – Model L
- 90° x 40° CMD (Constant Matching Design) constant directivity horn – Model W
- Dual-function design: built in passive crossover or external bi-amp
- Rotatable Horn System for horizontal cabinet mounting applications
- HF driver AMCDP (Active Mosfet Compression Driver Protection)
- LICC (Low Impedance Compensated Crossover) network
- 9 Suspension points (M10)
- 35 mm standard internal pole mount

APPLICATIONS

- Permanent Installations
- Main Reinforcement in small and medium spaces
- High-Level AV Playback
- Cluster configurations
- Live Music Reinforcement
- 60° x 40° horn design offers higher sensitivity for longer distance applications



CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

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PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42100 Mancasale, Reggio Emilia, Italy. - B. Model number: C5215L

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 15" mid-bass, 3" voice coil - HF Sub-section 2" neodymium, 2.5" aluminium voice coil.

2.03 Acoustical Proprieties

Nominal dispersion angle: Horizontal: 60° - Vertical: 40° - Axial frequency range: 48 Hz-20 kHz - Axial sensitivity: 101 dB, 1W @ 1m - Power handling: Applicable power 500 W RMS - Musical power 1000W - Peak power 2000W - Nominal impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 15° side angles 19 mm birch plywood construction - Rigging inserts: 9 x M10 inserts (3 top, 2 side, 2 rear and 2 bottom), + pole mount or with optional accessory AC C08 H-BR 1 M10 inserts (bottom) - Color: Black, scratch resistant paint - Grille: Custom perforated steel grille - Input Connectors: 2 X Speakon® NL4 - Dimensions (H x W x D): 27.16" x 16.06" x 17.72" - 690 x 408 x 450 mm Weight: 66.13 lb - 30 Kg.

2.05 Accessories

AC C15 H-BR Pair of bracket for mounting C5215L speakers on the wall. Adjustable inclination horizontal. Colour black.

AC C15 V-BR Pair of bracket for mounting C5215L speakers on the wall. Adjustable inclination vertical. Colour black.

SYSTEM

FREQ. RANGE (-10 DB): 48 Hz-20 kHz

FREQ. RANGE (-3 DB): 55 Hz-20 kHz

HORIZ. COVERAGE ANGLE (-6 DB): C5215W 90°

C5215L 60°

VERTICAL COVERAGE ANGLE (-6 DB): 40°

DIRECTIVITY FACTOR, Q: 14

SYSTEM SENSITIVITY: C5215W 100 dB, 1W @ 1m⁽¹⁾

C5215L 101 dB, 1W @ 1m⁽¹⁾

RATED MAXIMUM SPL: C5215W 133 dB,

C5215L 134 dB, @ 1m

SYSTEM NOMINAL IMPEDANCE: 8 Ohm

SYSTEM INPUT POWER RATING RMS: 500 W⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 2000 W

RECOMMENDED AMPLIFIER: 1000 W⁽³⁾

HF PROTECTION: Dynamic

CROSSOVER: 1,2 kHz

TRANSDUCERS

LOW FREQUENCY: 15" (381 mm) woofer with 3" (76,2 mm) coil

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 400 W AES ; 800 W Peak

SENSITIVITY: 99 dB, 1W @ 1m

HIGH FREQUENCY: 2" (50 mm) throat, 2.5" (64 mm)

coil diaphragm assembly

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 100 W AES ; 200 W Peak

SENSITIVITY: 111 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Trapezoidal, 15° side angles

19 mm birch plywood construction

RIGGING INSERTS: 9 x M10 inserts + pole mount

COLOR: Black, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: Speakon® NL4

DIMENSIONS (H x W x D): 27.16" x 16.06" x 17.72" - 690 x 408 x 450 mm

WEIGHT: 66.13 lb - 30 Kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

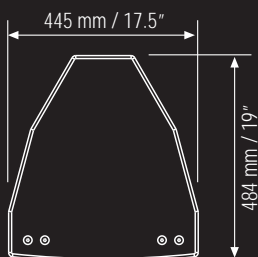
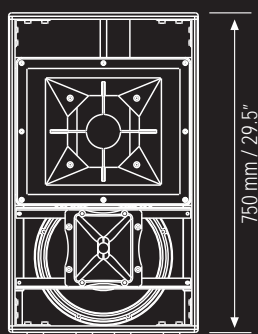
The RCFACUSTICA H1312 is three-way full range loudspeaker system that incorporate a 12" LF transducer, a 8" cone MF transducer and a 1" exit titanium compression driver. The system is very compact and provides very high output and accurate voice and sound reproduction. The system is equipped with the latest generation of RCF precision transducers, all of them with powerful neodymium motors. The LF driver, equipped with a 4" voice coil and a state of the art neodymium motor, is mounted in a vented enclosure with optimised front loading. The MF cone driver is a unique RCF sealed basket design and is loaded into a low compression polystyrene midrange horn. The HF titanium compression driver is loaded on a constant directivity horn with a coverage of 90° x 60°. The compression driver Horn is rotatable. The internal passive filter provides crossover and equalization between

the midrange and the compression driver.

The Crossover network offers Compression Driver Protection thanks to a unique design Active Mosfet Circuit.

The system is driven in bi-amped mode, is able of producing a Max SPL of 134 dB and handles 800 Watts AES (LF) + 300 Watt AES (MF/HF). The loudspeaker enclosure shape is multi-trapezoidal and offers a double coupling angle each side. The cabinet is constructed of multiply baltic birch plywood and finished in a very resistant, textured, polyurethane black paint.

The cabinet includes 2 recessed handles for transportation and positioning and a total of six double M10 fixing point for flown applications and extensive internal metal bracing. The front steel grille is epoxy powder coated.

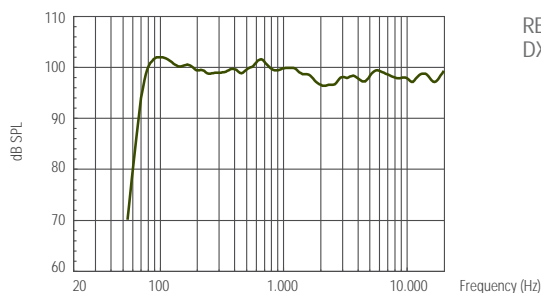


FEATURES

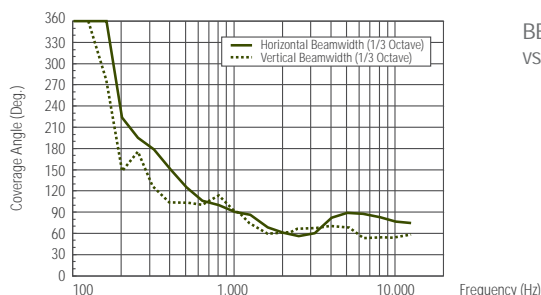
- Compact Arrayable 3-way System
- LF/MF/HF (90° x 60° directivity)
- Fully equipped with Neodymium Transducers
- Bi-amp system (passive crossover MF/HF included)
- Active Mosfet Compression Driver Protection
- Rotable HF Horn
- Recessed handles

APPLICATIONS

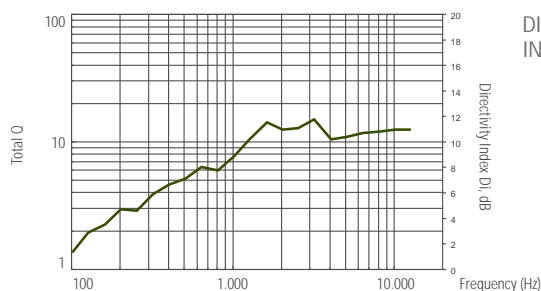
- Permanent Installations
- Sound Reinforcement in medium to large spaces
- AV Presentations
- Flown Clusters
- Club Systems
- Main PA in mid to large-size systems



RESPONSE WITH
DX4800 PROCESSOR



BEAMWIDTH
VS. FREQUENCY



DIRECTIVITY
INDEX AND Q

CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy.

B. Model number: H1312

2.02 Design

Configuration: Compact 3 way horn loaded speaker. LF Sub-section 12" mid-bass, 4" voice coil. MF Sub-section 8" midrange, 3" voice coil. HF Sub-section 1.75" neodymium, 3" aluminium voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 90° - Vertical: 60°. Axial frequency range: 60Hz-20kHz. Axial sensitivity: 98 dB LF, 106 dB MF/HF, 1W @ 1m. Power handling: Applicable power 800 W RMS LF, 300 Watt RMS MF/HF. Musical power 1600 W LF, 600 Watt MF/HF. Peak power 3200 W LF, 1200 Watt MF/HF. Nominal impedance: 8 Ohm LF, 8 Ohm MF/HF.

2.04 Physical Properties

Enclosure: Double trapezoidal, 15 mm birch plywood construction. Rigging inserts: 12 x M10 inserts (4 top, 4 rear and 4 bottom). Color: Black, scratch resistant paint. Grille: Custom perforated steel grille with open-cell poly fibre backing. Input Connectors: 2 X Speakon® NL4. Dimensions (H x W x D): 750 x 445 x 484 mm. Weight: 35,5 Kg.

SYSTEM

FREQ. RANGE (-10 dB): 60 - 20.000 Hz

FREQ. RANGE (-3 dB): 75 - 20.000 Hz

HORIZ. COVERAGE ANGLE: 90°

VERTICAL COVERAGE ANGLE: 60°

DIR FACTOR; Q: 11

SYSTEM SENSITIVITY: 98 dB LF, 106 dB MF/HF ⁽¹⁾

RATED MAX SPL: 134 DB

SYSTEM NOMINAL IMPEDANCE: 8 ohm LF, 8 ohm MF/HF

SYSTEM INPUT POWER RATING RMS: 800 Watt LF, 300 Watt MF/HF ⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 3200 Watt LF, 1200 Watt MF/HF

RECOMMENDED AMPLIFIER: 1600 Watt LF, 600 Watt MF/HF ⁽³⁾

HF PROTECTION: Active Mosfet Compression Driver Protection

CROSSOVER: Recommended 500 Hz, Internal MF/HF 2000 Hz

TRANSDUCERS

LOW FREQUENCY: 12" woofer with 4" (100 mm) coil

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 800 Watt AES

SENSITIVITY: 98 dB

MID FREQUENCY: 8" midrange with 3" voice coil

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 250 Watt AES

SENSITIVITY: 107 dB

HIGH FREQUENCY: 1.75" compression driver, 44 mm coil

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 40 Watt AES

SENSITIVITY: 109 dB

PHYSICAL

ENCLOSURE: Double Trapezoidal, 15 mm birch plywood construction

RIGGING INSERTS: 12 x M10 rigging points

COLOR: Black, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: 2 x Speakon NL4

DIMENSIONS (H x W x D): 29.52"x 17.51"x 19.05" - 750 x 445 x 484 mm

WEIGHT: 78.26 lb - 35,5 Kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

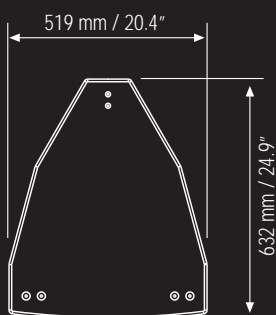
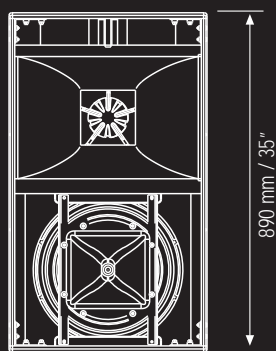
The RCFACUSTICA H1315 is three-way full range loudspeaker system that incorporate a 15" LF transducer, a 10" cone MF transducer and a 1.4" exit titanium compression driver. The system is very compact and provides very high output and accurate voice and sound reproduction. The system is equipped with the latest generation of RCF precision transducers, all of them with powerful neodymium motors.

The LF driver, equipped with a 4" voice coil and a state of the art neodymium motor, is mounted in a vented enclosure with optimised front loading. The MF cone driver is a unique RCF sealed basket design and is loaded into a exponential, baltic birch 60° x 40° midrange horn. The 3" coil MF driver is acoustically equalized thanks to a unique RCF complex phase plug design. The HF titanium compression driver is loaded on a constant directivity horn with a coverage of 60° x 40°.

The compression driver horn is rotatable.

The internal passive filter provides crossover and equalization between the midrange and the compression driver. The Crossover network offers Compression Driver Protection thanks to a unique design Active MOSFET Circuit. The system is driven in bi-amped mode, is able of producing a Max SPL of 136 dB and handles 900 Watts AES (LF) + 400 Watt AES (MF/HF). The loudspeaker enclosure shape is multi-trapezoidal and offers a double coupling angle each side. The cabinet is constructed of multi-ply baltic birch plywood and finished in a very resistant, textured, polyurethane black paint.

The cabinet includes 2 recessed handles for transportation and positioning and a total of six double M10 fixing point for flown applications and extensive internal metal bracing. The front steel grille is epoxy powder coated.

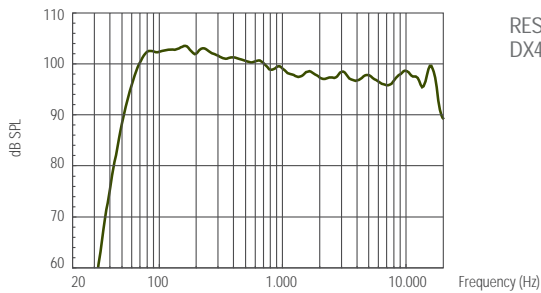


FEATURES

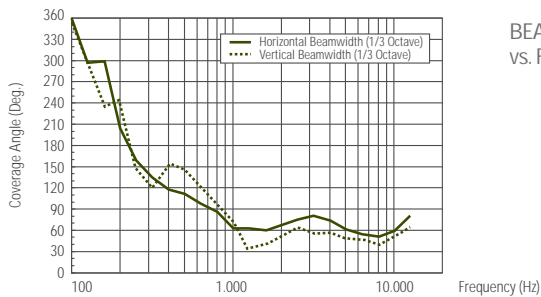
- Compact Arrayable 3-way System
- Fully Horn-loaded LF/MF/HF (90° x 60° directivity)
- Fully equipped with Neodymium Transducers
- Bi-amp system (passive crossover MF/HF included)
- Active Mosfet Compression Driver Protection
- Rotable HF Horn
- Recessed handles

APPLICATIONS

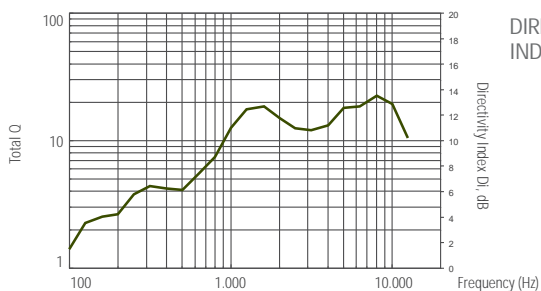
- Permanent Installations
- Sound Reinforcement in medium to large spaces
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RESPONSE WITH
DX4800 PROCESSOR



BEAMWIDTH
vs. FREQUENCY



DIRECTIVITY
INDEX AND Q

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The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy.

B. Model number: H1315

2.02 Design

Configuration: Compact 3 way horn loaded speaker. LF Sub-section 15" mid-bass, 4" voice coil. MF Sub-section 10" midrange, 3" voice coil. HF Sub-section 3" neodymium, 3" aluminium voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 60°b0 - Vertical: 40°. Axial frequency range: 50 Hz - 20 kHz
Axial sensitivity: 100 dB LF, 108 dB MF/HF, 1W @ 1m. Power handling: Applicable power 900 W RMS LF, 400 Watt RMS MF/HF. Musical power 1800 W LF, 800 Watt MF/HF. Peak power 3600 W LF, 1600 Watt MF/HF. Nominal impedance: 8 Ohm LF, 8 Ohm MF/HF.

2.04 Physical Properties

Enclosure: Double trapezoidal, 15 mm birch plywood construction. Rigging inserts: 12 x M10 inserts (4 top, 4 rear and 4 bottom). Color: Black, scratch resistant paint. Grille: Custom perforated steel grille with open-cell poly fibre backing. Input Connectors: 2 X Speakon® NL4. Dimensions (H x W x D): 890 x 520 x 632 mm.

SYSTEM

FREQ. RANGE (-10 dB): 50 - 20.000 Hz

FREQ. RANGE (-3 dB): 65 - 20.000 Hz

HORIZ. COVERAGE ANGLE: 60°

VERTICAL COVERAGE ANGLE: 40°

DIR FACTOR: Q: 12

SYSTEM SENSITIVITY: 100 dB LF, 108 dB MF/HF ⁽¹⁾

RATED MAX SPL: 136 DB

SYSTEM NOMINAL IMPEDANCE: 8 ohm LF, 8 ohm MF/HF

SYSTEM INPUT POWER RATING RMS: 900 Watt LF, 400 Watt MF/HF ⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 3600 Watt LF, 1600 Watt MF/HF

RECOMMENDED AMPLIFIER: 1800 Watt LF, 800 Watt MF/HF ⁽³⁾

HF PROTECTION: Active Mosfet Compression Driver Protection

CROSSOVER: Recommended 300 Hz, Internal MF/HF 1300 Hz

TRANSDUCERS

LOW FREQUENCY: 15" woofer with 4" (100 mm) coil

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 900 Watt AES

SENSITIVITY: 100 dB

MID FREQUENCY: 10" midrange with 3" voice coil

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 300 Watt AES

SENSITIVITY: 109 dB

HIGH FREQUENCY: 3" compression driver, 75 mm coil

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 110 Watt AES

SENSITIVITY: 109 dB

PHYSICAL

ENCLOSURE: Double Trapezoidal, 15 mm birch plywood construction

RIGGING INSERTS: 12 x M10 rigging points

COLOR: Black, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: 2 x Speakon NL4

DIMENSIONS (H x W x D): 35.03"x 20.47"x 24.88" - 890 x 520 x 632 mm

WHEIGHT: 99.20 lb - 45 Kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

130.00.048 - 130.00.115 (white)

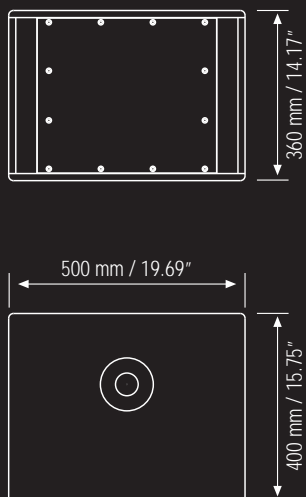
S4012

The S4012 high-efficiency Bandpass subwoofer is the ideal bass-frequency extension to complement the RCFACUSTICA Compact series two-way loudspeakers - C3108 & C3110 models. - The low-frequency transducer is an RCF Precision high-power 12" woofer with a 3" inside/outside voice coil to minimize power compression and extend the life of the product.

This new woofer design is the result of the latest refinements in RCF experiences in compact active and passive subwoofer design, resulting

in a fast and controlled reproduction of the bass frequency range. Using Bandpass loading to the transducer, the subwoofer design ensures an efficient acoustic response down to 45 Hz. The Baltic birch plywood enclosure is painted with black, heavy duty, textured epoxy. The front is protected from a strong powder coated metal grille. The cabinet features two Neutrik Speakon™ connectors in a recessed input plate. A 35 mm pole mount adaptor is provided in the top of the cabinet, along with integrated hand carry points in the cabinet sides.

AVAILABLE
ALSO IN WHITE

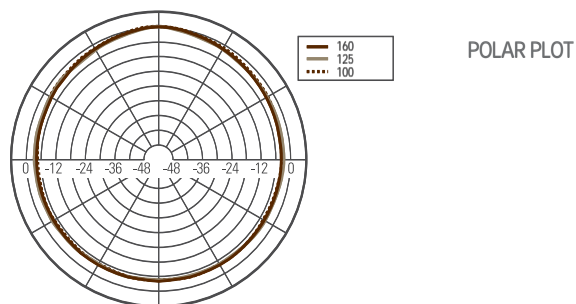
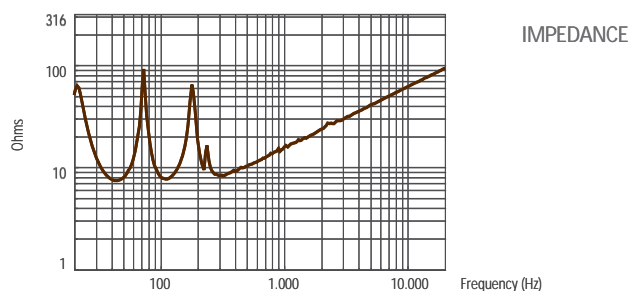
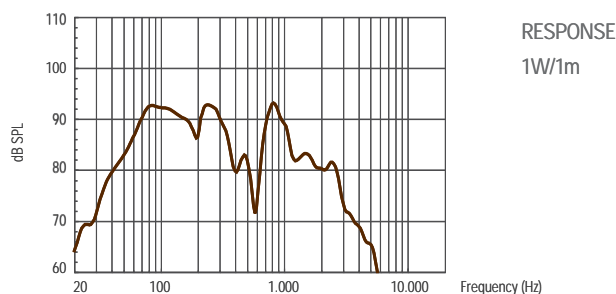


FEATURES

- 12" high-efficiency RCF Precision 3" voice-coil woofer with Inside/Outside Coil Technology
- Horn reflex loaded woofer
- 128dB maximum sound pressure level
- Response down to 45 Hz
- Rectangular box enclosure with protective metal grille
- 35 mm standard pole mount in top section of cabinet
- Integrated hand carry points

APPLICATIONS

- Low Frequency Enhancement
- Music Enhancement
- Special Effects Reinforcement
- Entertainment Systems
- Live Music Reinforcement
- Small Club Sound Systems
- Infill Sub Bass Enhancement



CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy. - B. Model number: S4012.

2.02 Design

Configuration Bandpass subwoofer - LF Sub-section 12" woofer, 3" voice coil.

2.03 Acoustical Proprieties

Axial frequency range: 45 Hz - 200 Hz - Axial sensitivity: 96 dB, 1W @ 1m - Power handling: Applicable power 400 W RMS - Musical power 800 W - Peak power 1200 W - Nominal impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Rectangle, 15 mm birch plywood construction - Rigging inserts: Pole mount - Color: Black, white, scratch resistant paint - Grille: Custom perforated steel grille - Input Connectors: 2 X Speakon® NL4. Dimensions (H x W x D): 14.17"x 19.69"x 15.75" - 360 x 500 x 400 mm - Weight: 44 lb - 20 kg

SYSTEM

FREQ. RANGE: 45 Hz - 200 Hz

SYSTEM SENSITIVITY: 96 dB , 1W @ 1m ⁽¹⁾

RATED MAXIMUM SPL: 128 dB, @ 1m

SYSTEM NOMINAL IMPEDANCE: 8 Ohm

SYSTEM INPUT POWER RATING RMS: 400 W ⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 1200 W

RECOMMENDED AMPLIFIER: 800 W ⁽³⁾

TRANSDUCERS

LOW FREQUENCY: 12" (304,8 mm) woofer with 3" (76,2 mm)

inside/outside voice coil

NOMINAL IMPEDANCE: 8 Ohm

PROGRAM POWER: 800 W

POWER HANDLING CAPACITY: 400 W

SENSITIVITY: 97 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Rectangle, 15 mm birch plywood construction

RIGGING INSERTS: Pole mount

COLOR: Black, white, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: Speakon® NL4

DIMENSIONS (H x W x D): 14.17"x 19.69"x 15.75" - 360 x 500 x 400 mm

WEIGHT: 44 lb - 20 Kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

130.00.168

S8015

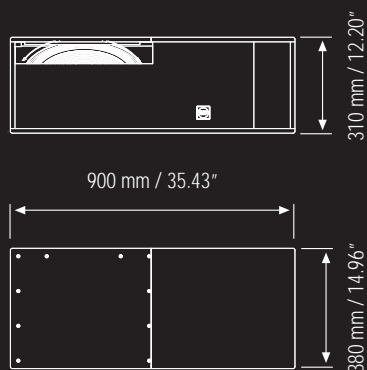
The S8015 is an extremely compact, high output, band-pass subwoofer able to deliver tight and fast controlled bass response.

The new high power high sensitivity 15" woofer is the result of the latest RCF experience in sub-bass transducers and compact subwoofer design and manufacturing.

S8015 is a compact versatile high output sub-bass enclosure delivering extended low frequencies. The band-pass configuration offers a significant acoustic impact.

Resulting in a fast and controlled reproduction of the bass frequency range. Featuring a 4" inside/outside voice coil to minimize power compression, extending the life of the device. It is capable of a power of 1kW RMS and able to deliver a MAX SPL in excess of 135 dB.

The loudspeaker enclosure shape is unobtrusive rectangular low-profile to be used under-sofa or under limited height stages; the cabinet is constructed of multi-ply baltic birch plywood and finished in a very resistant, textured, black paint, rubber feet are also installed.

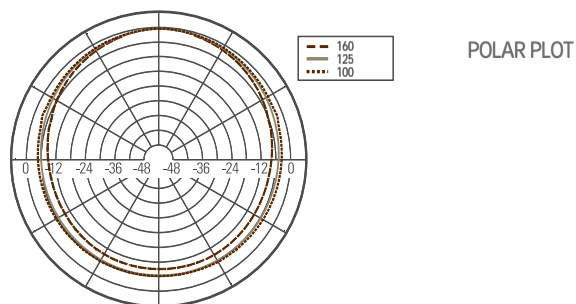
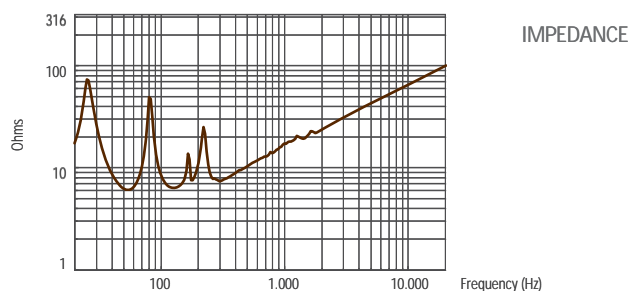
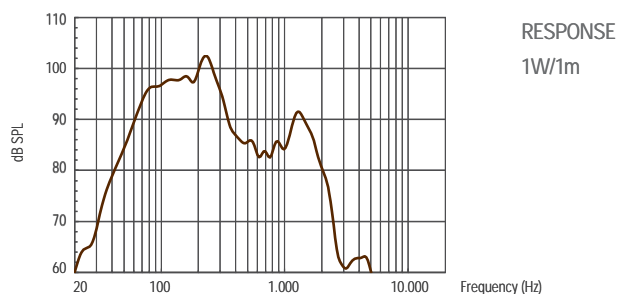


FEATURES

- 15" high-efficiency RCF Precision 4" voice-coil woofer with Inside/Outside Coil Technology
- Bandpass woofer
- 135dB maximum sound pressure level
- Response down to 43 Hz
- Rectangular box enclosure

APPLICATIONS

- Low Frequency Enhancement
- Music Enhancement
- Club-Bar Bass Enhancement
- Special Effects Reinforcement
- Entertainment Systems
- Live Music Reinforcement
- Small and Mid Club Sound Systems
- Under-sofa and under-stage constraints
- Infill Sub Bass Enhancement
- Auditoriums
- AV presentations
- Retail stores



SYSTEM

FREQ. RANGE: 43 Hz - 250 Hz

SYSTEM SENSITIVITY: 99 dB , 1W @ 1m ⁽¹⁾

RATED MAXIMUM SPL: 135 dB, @ 1m

SYSTEM NOMINAL IMPEDANCE: 8 Ohm

SYSTEM INPUT POWER RATING RMS: 800 W ⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 2400 W

RECOMMENDED AMPLIFIER: 1500 W⁽³⁾

TRANSDUCERS

LOW FREQUENCY: 15" (381 mm) woofer with 4" (100 mm)

inside/outside voice coil

NOMINAL IMPEDANCE: 8 Ohm

PROGRAM POWER: 1800 W

POWER HANDLING CAPACITY: 900 W

SENSITIVITY: 97 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Rectangle, 15 mm birch plywood construction

COLOR: Black, white, scratch resistant paint

INPUT CONNECTORS: Speakon® NL4

DIMENSIONS (H x W x D): 12.20"x 35.43"x 14.96" - 310 x 900 x 380 mm

WEIGHT: 51.58 lb - 23.4 Kg

CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42100 Mancasale, Reggio Emilia, Italy. - B. Model number: S8015.

2.02 Design

Configuration Bandpass subwoofer - LF Sub-section 15" woofer, 4" voice coil.

2.03 Acoustical Proprieties

Axial frequency range: 43 Hz - 250 Hz - Axial sensitivity: 99 dB, 1W @ 1m - Power handling: Applicable power 800 W RMS - Musical power 1500 W - Peak power 2400 W - Nominal impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Rectangle, 15 mm birch plywood construction - Color: Black, scratch resistant paint -

Input Connectors: 2 X Speakon® NL4. Dimensions (H x W x D): 12.20"x 35.43"x 14.96" - 310 x 900 x 380 mm - Weight: 51.58 lb - 23.4 kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

130.00.082

S4022

The S4022 is a compact, high-output band-pass subwoofer. The system is equipped with two advanced 12" RCF precision woofers mounted in a clam-shell internal chamber. The two transducers couple to achieve tight and maximised output. Each 12" features massive ceramic magnets and 3" copper voice coil.

The system is able of producing a Max SPL of 131 dB and handles 800 Watts AES.

The loudspeaker enclosure shape is rectangular and the cabinet is constructed of multi-ply baltic birch plywood and finished in a very resistant, textured, polyurethane black paint. It features a pole-mount receptacle, rubber feet, 2 x recessed handles and 8 x M10 mounting point plus extensive internal bracing for flown applications. The front steel grille is epoxy powder coated.

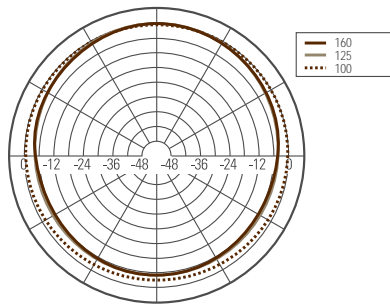
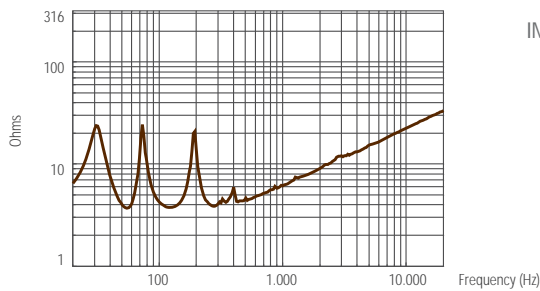
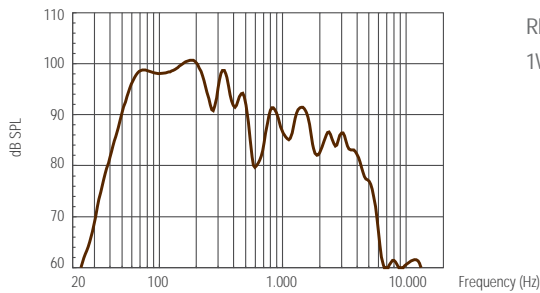


FEATURES

- Compact, arrayable, 2 x 12" bandpass subwoofer system
- 131 dB max SPL, 800 Watt AES
- Equipped with RCF high power 2 x 12", 3" voice coil woofers
- Extensive internal bracing, 8 x M10 mounting points
- Recessed handles
- Epoxy powder coated front grille
- Dedicated to permanent installation

APPLICATIONS

- Low Frequency Enhancement
- Music Enhancement
- Special Effects Reinforcement
- Entertainment Systems
- Live Music Reinforcement
- Small to Large Club Sound Systems
- Infill Sub Bass Enhancement



SYSTEM

FREQ. RANGE: 40 Hz - 200 Hz

SYSTEM SENSITIVITY: 97 dB , 1W @ 1m ⁽¹⁾

RATED MAXIMUM SPL: 131 dB, @ 1m

SYSTEM NOMINAL IMPEDANCE: 4 Ohm

SYSTEM INPUT POWER RATING RMS: 800 W ⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 2400 W

RECOMMENDED AMPLIFIER: 1600 W⁽³⁾

TRANSDUCERS

LOW FREQUENCY: 2 x 12" (304,8 mm) woofer with 3" (76,2 mm) inside/outside voice coil

NOMINAL IMPEDANCE: 8 Ohm

PROGRAM POWER: 800 W

POWER HANDLING CAPACITY: 400 W

SENSITIVITY: 97 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Rectangle, 15 mm birch plywood construction

RIGGING INSERTS: 8 x M10 Mounting Points, 2 x Recessed

COLOR: Black, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: 2 X Speakon® NL4

DIMENSIONS (H x W x D): 19.68"x 25.59"x 22.83" - 500 x 650 x 580 mm

WEIGHT: 83.77 lb - 38 Kg

CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy. - B. Model number: S4022

2.02 Design

Configuration Bandpass subwoofer. LF Sub-section 2 X 12" woofer, 3" voice coil.

2.03 Acoustical Properties

Axial frequency range: 40 Hz - 200 Hz - Axial sensitivity: 97 dB, 1W @ 1m - Power handling: Applicable power 400 W RMS. Musical power 800W - Peak power 1200 W - Nominal impedance: 4 Ohm.

2.04 Physical Properties

Enclosure: Rectangle, 15 mm birch plywood construction - Rigging inserts: 8 X M10 Mounting Points, 2x Recessed Handles. Color: Black, scratch resistant paint - Grille: Custom perforated steel grille. Input Connectors: 2 X Speakon® NL4 - Dimensions (H x W x D): 19.68" x 25.59" x 22.83" - 500 x 650 x 580 mm Weight: 83.77 lb - 38 Kg.

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

The S8018 high-efficiency subwoofer is the ideal bass-frequency extension to complement the RCFACUSTICA Compact series two-way loudspeakers. The low-frequency transducer is an RCF Precision high-power 18" woofer with a 4" inside/outside voice coil to minimize power compression and extend the life of the product. This new woofer design is the result of the latest refinements in RCF experiences in compact active and passive subwoofer design, resulting in a fast and controlled reproduction of the bass frequency range. Using horn-reflex loading to the transducer, the subwoofer design ensures an efficient acoustic response down to 40 Hz.

The Baltic birch plywood enclosure is painted with black, heavy duty, textured epoxy. The front is protected from a strong powder coated metal grille. The cabinet features two Neutrik Speakon™ connectors in a recessed input plate. A 35 mm pole mount adaptor is provided in the top of the cabinet, along with integrated hand carry points in the cabinet sides.

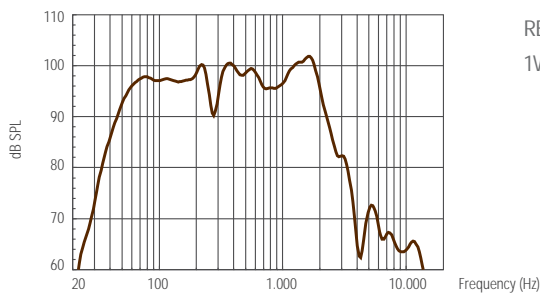


FEATURES

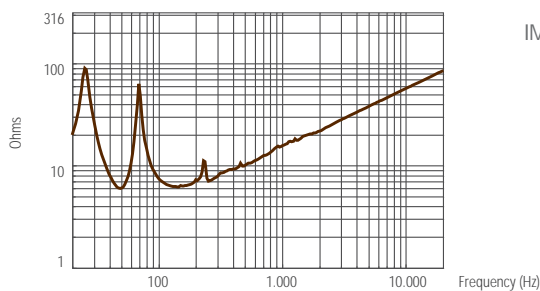
- 18" high-efficiency RCF Precision 4" voice-coil woofer with Inside/Outside Coil Technology
- 134 dB maximum sound pressure level
- Response down to 40 Hz
- Rectangular box enclosure with protective metal grille
- 35 mm standard pole mount in top section of cabinet
- Integrated hand carry points

APPLICATIONS

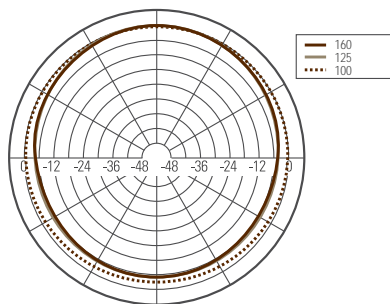
- Low Frequency Enhancement
- Music Enhancement
- Special Effects Reinforcement
- Entertainment Systems
- Live Music Reinforcement
- Small to Large Club Sound Systems
- Infill Sub Bass Enhancement



RESPONSE
1W/1m



IMPEDANCE



POLAR PLOT

CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

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PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy.

B. Model number: S8018

2.02 Design

Configuration Bass reflex subwoofer. LF Sub-section 18" woofer, 4" voice coil.

2.03 Acoustical Proprieties

Axial frequency range: 40 Hz - 200 Hz. Axial sensitivity: 98 dB, 1W @ 1m. Power handling: Applicable power 1000 W RMS. Musical power 2000 W. Peak power 4000 W. Nominal impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Rectangle, 15 mm birch plywood construction. Rigging inserts: 2x Recessed Handles. Color: Black, scratch resistant paint. Grille: Custom perforated steel grille

Input Connectors: 2 X Speakon® NL4. Dimensions (H x W x D): 27.32"x 20.59"x 27.32" - 700 x 520 x 700 mm. Weight: 105.82 lb - 48 Kg.

SYSTEM

FREQ. RANGE: 40 Hz - 200 Hz

SYSTEM SENSITIVITY: 98 dB , 1W @ 1m ⁽¹⁾

RATED MAXIMUM SPL: 134 dB, @ 1m

SYSTEM NOMINAL IMPEDANCE: 8 Ohm

SYSTEM INPUT POWER RATING RMS: 1000 W ⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 4000 W

RECOMMENDED AMPLIFIER: 2000 W ⁽³⁾

TRANSDUCERS

LOW FREQUENCY: 18" (457,2 mm) woofer with 4"

(100,6 mm) inside/outside voice coil

NOMINAL IMPEDANCE: 8 Ohm

PROGRAM POWER: 1800 W

POWER HANDLING CAPACITY: 900 W

SENSITIVITY: 98 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Rectangle, 15 mm birch plywood construction

RIGGING INSERTS: Pole mount

COLOR: Black, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: Speakon® NL4

DIMENSIONS (H x W x D): 27.32"x 20.59"x 27.32" - 700 x 520 x 700 mm

WEIGHT: 105.82 lb - 48 Kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

130.00.085

S8028

The S8028 is a compact, high-output bass reflex subwoofer. The system is equipped with two advanced neodymium 18" RCF precision woofers mounted in a clam-shell configuration. The two transducers couple to achieve tight and maximised output.

Each 18" features massive vented neodymium magnets and 4" copper voice coil and represents the state of the art of RCF precision transducers technology.

The system is able of producing a Max SPL of 138 dB and handles 2000 Watts AES.

The loudspeaker enclosure shape is rectangular and the cabinet is constructed of multi-ply baltic birch plywood and finished in a very resistant, textured, polyurethane black paint. It features 2x recessed handles and rubber feet. It is possible to use the system in horizontal or vertical configuration.

The front steel grille is epoxy powder coated.

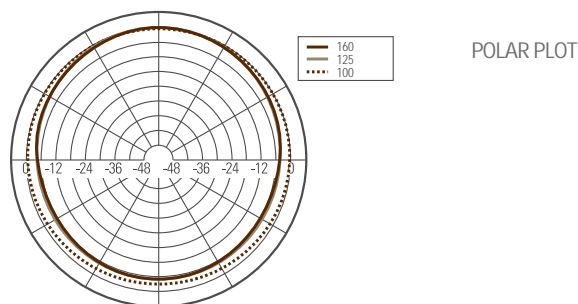
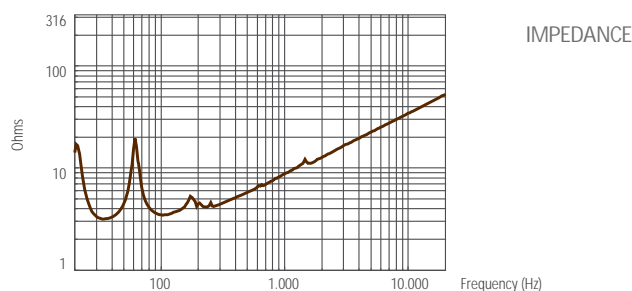
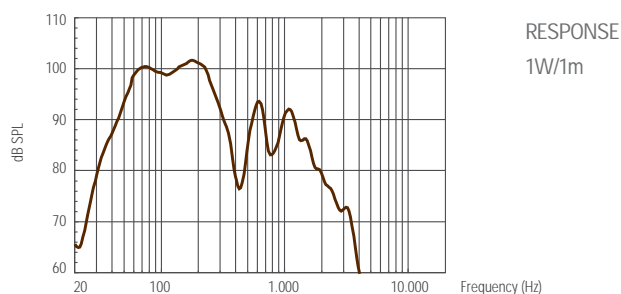


FEATURES

- Compact, bass reflex, 2 x 18" subwoofer system
- Very high output, response down to 35 Hz
- 138 dB max SPL, 2000 Watt AES
- Equipped with RCF high power 2 x 18", 4" voice coil neodymium woofers
- Recessed handles
- Epoxy powder coated front grille

APPLICATIONS

- Low Frequency Enhancement
- Music Enhancement
- Special Effects Reinforcement
- Entertainment Systems
- Live Music Reinforcement
- Mid to Large Club Sound Systems
- Infill Sub Bass Enhancement



CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

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PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy.

B. Model number: S8028.

2.02 Design

Configuration Bass reflex subwoofer. LF Sub-section 2 x 18" woofer, 4" voice coil.

2.03 Acoustical Properties

Axial frequency range: 35 Hz - 200 Hz. Axial sensitivity: 99 dB, 1W @ 1m. Power handling: Applicable power 3000 W RMS. Musical power 2000 W. Peak power 6000 W. Nominal impedance: 4 Ohm.

2.04 Physical Properties

Enclosure: Rectangle, 15 mm birch plywood construction. Rigging inserts: 2x Recessed Handles
Color: Black, scratch resistant paint. Grille: Custom perforated steel grille with open-cell poly fiber backing
Input Connectors: 2 X Speakon® NL4. Dimensions (H x W x D): 580 x 1060 x 700 mm. Weight: 64 Kg.

SYSTEM

FREQ. RANGE (-10 dB): 35 - 200 Hz

SYSTEM SENSITIVITY: 99 dB ⁽¹⁾

RATED MAX SPL: 138 dB

SYSTEM NOMINAL IMPEDANCE: 4 Ohm

SYSTEM INPUT POWER RATING RMS: 2000 Watt ⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 8000 Watt

RECOMMENDED AMPLIFIER: 4000 Watt ⁽³⁾

CROSSOVER: Recommended 120 Hz

TRANSDUCERS

LOW FREQUENCY: 2 x 18" woofer with 4" (100 mm) coil

NOMINAL IMPEDANCE: 8 Ohm each

INPUT POWER RATING: 1000 Watt AES each

PHYSICAL

ENCLOSURE: Rectangular, 15 mm plywood

COLOR: Black, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: 2 x Speakon NL4

DIMENSIONS (H x W x D): 22,83" x 41,73" x 27,55" - 580 x 1060 x 700 mm

WEIGHT: 141 lb - 64 Kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

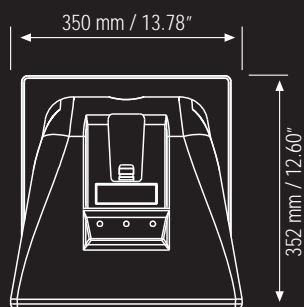
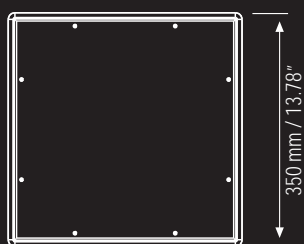
3) Recommended Amplifier is a power capability value that should be taken as a guide.

The P2110 is a weatherproof full range, wide-dispersion, coaxial two way loudspeaker system offering substantial power and efficiency for a variety of professional indoor or outdoor applications. The high-frequency section is a constant directivity CMD horn loaded to a 1" RCF Precision Neodymium compression driver with a 1.50" diaphragm assembly for smooth, wide dispersion. The low-frequency transducer is a 10" woofer with a 2.5" voice coil. The cabinet is a single piece rotational moulded in medium density polyethylene, fully UV protected.

The cabinet is equipped with 12 x M 8 brass inserts, a stainless steel U-Bracket and pair of spacers for 90° mounting. The front logo is in aluminium and rotatable.

The grille is in custom perforated aluminium with open-cell fibres and water repellent woven fabric backing.

The system features a selectable line transformer for 70 - 100 Volt applications.



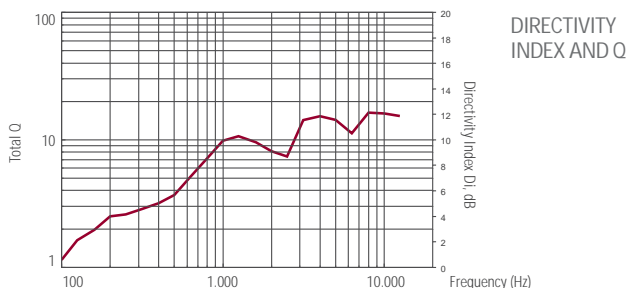
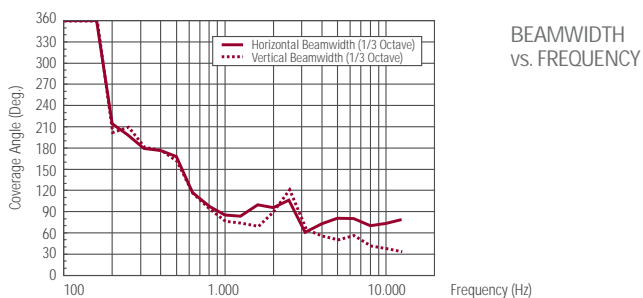
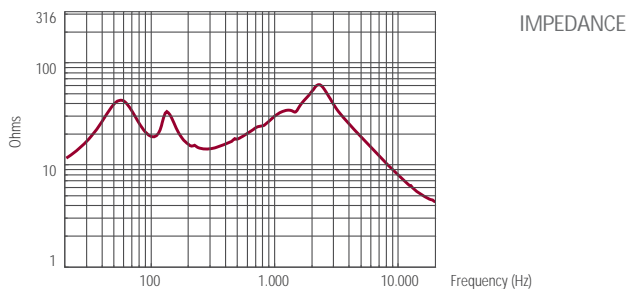
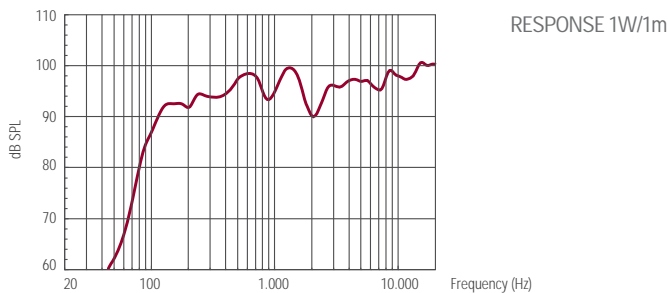
FEATURES

- Weatherproof cabinet
- Aluminium grill and stainless steel bracket
- One 10" high-output LF transducer with 2" voice coil
- One RCF Precision Neodymium 1" Compression Driver with 1.5" voice coil
- 90° x 40° constant directivity horn
- Built in passive crossover and selectable line transformer
- 10° X 20° enclosure sides for array configurations
- Active Mosfet Compression Driver Protection
- LICC (Low Impedance Compensated Crossover) network
- 12 brass suspension points (M8)

APPLICATIONS

- Outdoor Sound Reinforcement in small and medium spaces
- High-Level AV Playback
- Flown cluster configurations
- Large speech systems
- Music Sound Reinforcement





CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS
(ALSO KNOWN AS "A&E SPECIFICATIONS")
The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy. B. Model number : P2110.

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 10" mid-bass, 2.5" voice coil - HF Sub-section 1" neodymium, 1.5" voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 90° - Vertical: 40° - Axial Frequency range: 95Hz-20kHz - Axial Sensitivity: 95 dB, 1W @ 1m - Power handling: Applicable power 200W RMS - Musical power 400W - Peak power 800W - Nominal Impedance: 16 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 10° x 20° side angles 8mm polyethylene rotomoulded - Rigging insert: 12 x M8 inserts (3 top, 3 bottom, 6 side), + U-bracket, Pair of spacers and Pair of safe eyebolt- Color: Grey, scratch resistant texture - Grille: Custom perforated aluminium grille with open-cell fiber and water repellent woven fabric backing - Input System: 4 x 1.5mm square, 5m Neoprene cable - Dimensions: (H x W x D): 13.78" x 13.78" x 12.60" - 350 x 350 x 320 mm - Weight: 29.75 lb - 13.5 Kg.

SYSTEM

FREQ.RANGE (-10 dB): 95 Hz-20KHz

FREQ.RANGE (-3 dB): 120 Hz-20KHz

HORIZ.COVERAGE ANGLE (-6 dB): 90°

VERTICAL COVERAGE ANGLE (-6 dB): 40°

DIRECTIVITY FACTOR Q: 11

SYSTEM SENSITIVITY: 95 dB 1W @ 1m

RATED MAXIMUM SPL: 118 dB @ 1m

SYSTEM NOMINAL IMPEDANCE: 16 Ohm

SYSTEM INPUT POWER RATING RMS: 200 W

SYSTEM INPUT POWER RATING PEAK: 800 W

RECOMMENDED AMPLIFIER: 400 W

CONSTANT VOLTAGE LINE: 70/100V

SELECTABLE POWER: 70V/30W, 15W; 100V/60W, 30W

HF PROTECTION: Dynamic

CROSSOVER: 2 KHz

TRANSDUCERS

LOW FREQUENCY: 10" (250mm) WITH 2.5" (64mm) COIL

NOMINAL IMPEDANCE: 16 Ohm

INPUT POWER RATING PEAK: 180W AES; 720W Peak

SENSITIVITY: 95 dB, 1W @ 1m

HIGH FREQUENCY: 1.5" (35.5mm) throat, 1" (25.4mm)

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 25W AES; 100W Peak

SENSITIVITY: 106 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Trapezoidal, 10° Horizontal side angles, 20° Vertical side angles 8 mm Polyethylene rotomoulded

RIGGING INSERT: 12 x M8 inserts + U-Bracket and Pair of spacers.

COLOR: Grey

GRILLE: Custom perforated aluminium grille with open-cell fiber and water repellent woven fabric backing

INPUT SYSTEM: 4 x 1.5mm square, 5m Neoprene cable

DIMENSIONS (H x W x D): 13.78" x 13.78" x 12.60" - 350 x 350 x 320 mm

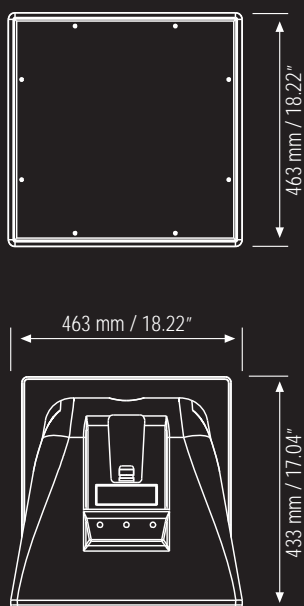
WEIGHT: 29.75 lb - 13.5 Kg

130.00.135

P3115

The P3115 is a weatherproof full range, wide-dispersion, coaxial two way loudspeaker system offering substantial power and efficiency for a variety of professional indoor or outdoor applications. The high-frequency section is a constant directivity CMD horn loaded to a 1" RCF Precision Neodymium compression driver with a 1.5" diaphragm assembly for smooth, wide dispersion. The low-frequency transducer is a 15" woofer with a 2.5" voice coil. The P3115 features a selectable line transformer for 70 - 100 Volt applications.

The cabinet is a single piece rotational moulded in medium density polyethylene, fully UV protected. The cabinet is equipped with 12 x M10 brass inserts, a stainless steel U-Bracket and pair of spacers for 90° mounting. The front logo is in aluminium and rotatable. The grille is in custom perforated aluminium with open-cell fibres and water repellent woven fabric backing.



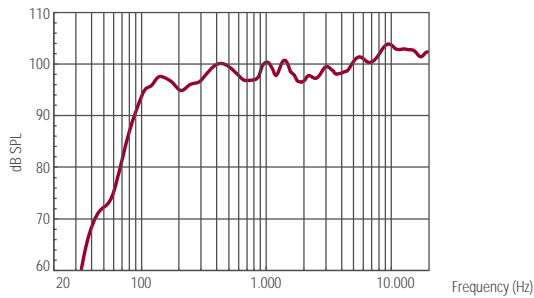
FEATURES

- Weatherproof cabinet
- Aluminium grill and stainless steel bracket
- One 15" high-output LF transducer with 2" voice coil
- One RCF Precision Neo 1" C. Driver with 1.5" voice coil for P3115
- 90° x 60° constant directivity horn for P3115
- 10° X 20° enclosure sides for array configurations
- Active Mosfet Compression Driver Protection
- 12 brass suspension points (M10)
- line transformer

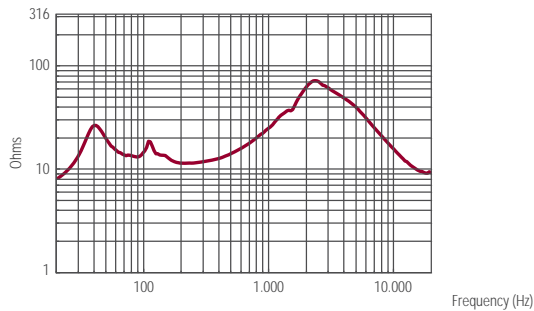
APPLICATIONS

- Outdoor Sound Reinforcement in medium and large spaces
- Very High-Level AV Playback
- Flown cluster configurations
- Large speech systems
- Music Sound Reinforcement

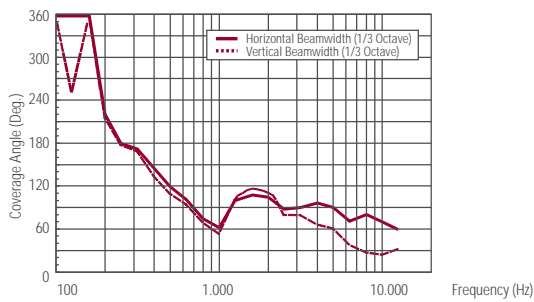




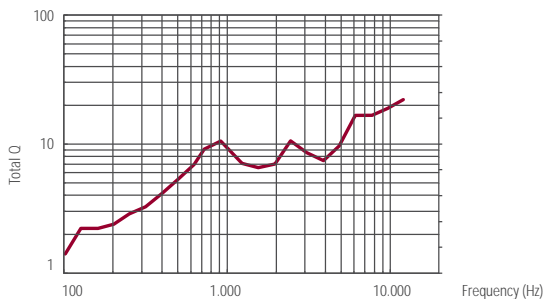
RESPONSE 1W/1m



IMPEDANCE



BEAMWIDTH
vs. FREQUENCY



DIRECTIVITY
INDEX AND Q

SYSTEM

FREQ.RANGE (-10 dB): 75Hz-20KHz

FREQ.RANGE (-3 dB): 100 Hz-20KHz

HORIZ.COVERAGE ANGLE (-6 dB): 90°

VERTICAL COVERAGE ANGLE (-6 dB): 60°

DIRECTIVITY FACTOR Q: 13.3

SYSTEM SENSITIVITY: 98 dB 1W @ 1m

RATED MAXIMUM SPL: 123 dB

SYSTEM NONINAL IMPEDANCE: 16 Ohm

SYSTEM INPUT POWER RATING RMS: 300 W

SYSTEM IMPUT POWER RATING PEAK: 1200 W

CONSTANT VOLTAGE LINE: 70/100V

SELECTABLE POWER: 70V/60W, 30W; 100V/120W, 60W

HF PROTECTION: Dynamic

CROSSOVER: 1.3 KHz

TRANSDUCERS

LOW FREQUENCY: 15" (380mm) WITH 2.5" (64mm) coil

NOMINAL IMPEDANCE: 16 Ohm

INPUT POWER RATING PEAK: 250W AES; 500W Peak

SENSITIVITY: 98 dB, 1W @ 1m

HIGH FREQUENCY: 1" (25.4mm) throat, 1.5" (35.5mm)

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 25W AES; 100W Peak

SENSITIVITY: 108 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Trapezoidal, 10° Horizontal side angles, 20° Vertical side angles 8 mm Polyethylene rotomoulded

RIGGING INSERT: 12 x M10 inserts + U-Bracket and Pair of spacers.

COLOR: Grey

GRILLE: Custom perforated aluminium grille with open-cell fiber and water repellent woven fabric backing

INPUT SYSTEM: 4 x 1.5mm square, 5m Neoprene cable

DIMENSIONS (H x W x D): 18.22" x 18.22" x 17.04" - 463 x 463 x 433 mm

WEIGHT: 42.76 lb - 19.4 Kg

CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy. B. Model number : P3115.

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 15" mid-bass, 2.5" voice coil - HF Sub-section 1" neodymium, 1.5" voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 90° - Vertical: 60° - Axial Frequency range: 75Hz-20kHz - Axial Sensitivity: 98 dB, 1W @ 1m - Power handling: Applicable power 300W RMS - Musical power 600W - Peak power 1200W - Nominal Impedance: 16 Ohm.

2.04 Phisical Properties

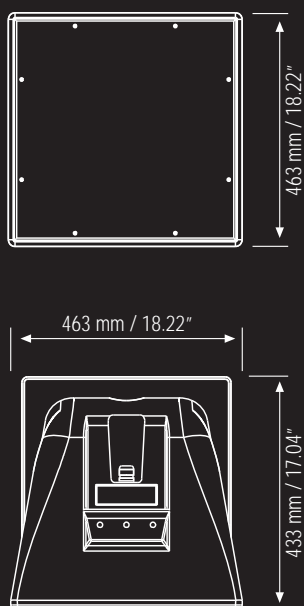
Enclosure: Trapezoidal, 10° x 20° side angles 8mm polyethylene rotomoulded - Rigging insert: 12 x M10 inserts (3 top, 3 bottom, 6 side), + U-bracket, Pair of spacers and Pair of safe eyebolt- Color: Grey, scratch resistant texture - Grille: Custom perforated aluminium grille with open-cell fiber and water repellent woven fabric backing - Input System: 4 x 1.5mm square, 5m Neoprene cable - Dimensions: (H x W x D): 18.22" x 18.22" x 17.04" - 463 x 463 x 433 mm - Weight: 42.76 lb - 19.4 Kg.

P6215

The P6215 is a weatherproof full range, wide-dispersion, coaxial two way loudspeaker system offering substantial power and efficiency for a variety of professional indoor or outdoor applications.

The high-frequency section is a constant directivity CMD horn loaded to a 1.3" RCF Precision Neodymium compression driver with a 2.5" diaphragm assembly for smooth, wide dispersion. The low-frequency transducer is a 15" woofer with a 3" voice coil. The P6215 is a dedicated high power version for very high output and longer throw applications.

The cabinet is a single piece rotational moulded in medium density polyethylene, fully UV protected. The cabinet is equipped with 12 x M10 brass inserts, a stainless steel U-Bracket and pair of spacers for 90° mounting. The front logo is in aluminium and rotatable. The grille is in custom perforated aluminium with open-cell fibres and water repellent woven fabric backing.



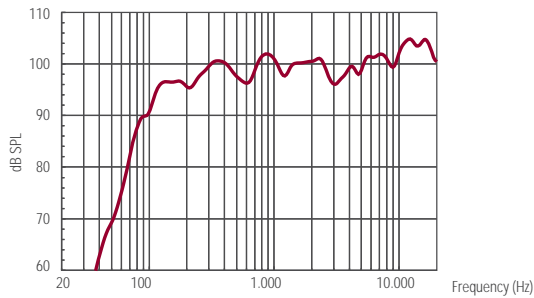
FEATURES

- Weatherproof cabinet
- Aluminium grill and stainless steel bracket
- One 15" high-output LF transducer with 3" voice coil
- One RCF Precision Neo 1.3" C. Driver with 2.5" voice coil
- 60° x 60° conical horn for P6215
- 10° X 20° enclosure sides for array configurations
- Active Mosfet Compression Driver Protection
- 12 brass suspension points (M10)
- line transformer

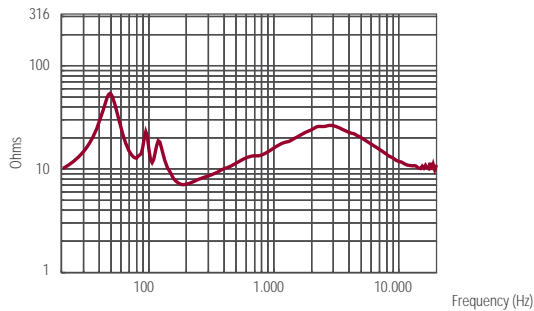
APPLICATIONS

- Outdoor Sound Reinforcement in medium and large spaces
- Very High-Level AV Playback
- Flown cluster configurations
- Large speech systems
- Music Sound Reinforcement

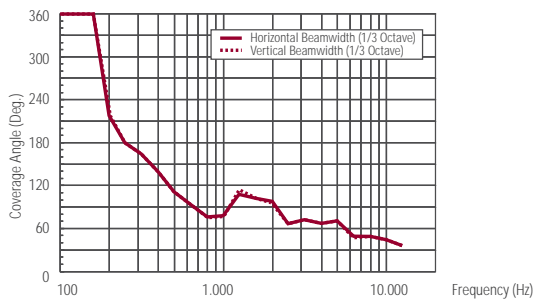




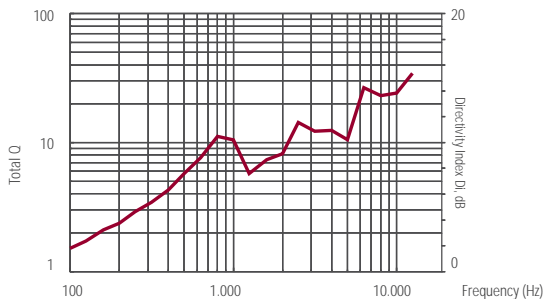
RESPONSE 1W/1m



IMPEDANCE



BEAMWIDTH
vs. FREQUENCY



DIRECTIVITY
INDEX AND Q

SYSTEM

FREQ.RANGE (-10 dB): 75Hz-20KHz

FREQ.RANGE (-3 dB): 120 Hz-20KHz

HORIZ.COVERAGE ANGLE (-6 dB): 60°

VERTICAL COVERAGE ANGLE (-6 dB): 60°

DIRECTIVITY FACTOR Q: 12.8

SYSTEM SENSITIVITY: 100 dB 1W @ 1m

RATED MAXIMUM SPL: 128 dB

SYSTEM NONINAL IMPEDANCE: 8 Ohm

SYSTEM INPUT POWER RATING RMS: 600 W

SYSTEM IMPUT POWER RATING PEAK: 2400 W

HF PROTECTION: Dynamic

CROSSOVER: 1.1 KHz

TRANSDUCERS

LOW FREQUENCY: 15" (380mm) WITH 5.5" (76.2mm) coil

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING PEAK: 450W AES; 900W Peak

SENSITIVITY: 101 dB, 1W @ 1m

HIGH FREQUENCY: 1.3" (33mm) throat, 2.5" (64mm)

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 90W AES; 180W Peak

SENSITIVITY: 108 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Trapezoidal, 10° Horizontal side angles, 20° Vertical

side angles 8 mm Polyethylene rotomoulded

RIGGING INSERT: 12 x M10 inserts + U-Bracket and Pair of spacers.

COLOR: Grey

GRILLE: Custom perforated aluminium grille with open-cell fiber and

water repellent woven fabric backing

INPUT SYSTEM: 2 x 2.5mm square, 5m Neoprene cable

DIMENSIONS (H x W x D): 18.22" x 18.22" x 17.04" - 463 x 463 x 433 mm

WEIGHT: 42.32 lb - 19.2 Kg

CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy. B. Model number : P6215.

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 15" mid-bass, 3" voice coil - HF Sub-section 1.5" neodymium, 2.5" voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 60° - Vertical: 60° - Axial Frequency range: 75Hz-20kHz - Axial Sensitivity: 100 dB, 1W @ 1m - Power handling: Applicable power 600W RMS - Musical power 1200W - Peak power 2400W - Nominal Impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 10° x 20° side angles 8mm polyethylene rotomoulded - Rigging insert: 12 x M10 inserts (3 top, 3 bottom, 6 side), + U-bracket, Pair of spacers and Pair of safe eyebolt- Color: Grey, scratch resistant texture - Grille: Custom perforated aluminium grille with open-cell fiber and water repellent woven fabric backing - Input System: 2 x 2.5mm square, 5m Neoprene cable - Dimensions: (H x W x D): 18.22" x 18.22" x 17.04" - 463 x 463 x 433 mm - Weight: 42.32 lb - 19.2 Kg.

130.00.169 - 130.00.177 (white)

L2406

The L 2406 is a full range high intelligibility compact 2 way speaker column array with vertical controlled directivity. Providing very natural and intelligible speech and high quality music reproduction, it is the optimum choice for a variety of fixed applications where the critical acoustical environment or architectural constraints requires to control the vertical acoustic dispersion. It is equipped with six 5" woofers and four 1" dome tweeter. Its design with central tweeters mounted in front of the two central woofers permits coherent sound dispersion minimizing lobing and keeping the design very compact for a unit of its professional features. To improve the directivity the two central woofers, behind the tweeters are controlled differently from the other four low frequency transducers - providing a true cardioid column operation.

The wide coverage horizontal angle and the controlled vertical dispersion allows correct sound reproduction serving a wide area and assistance in limiting feedback and reverberated Sound.

A speech filter can be activated for enhancing the voice frequencies and improving speech intelligibility.

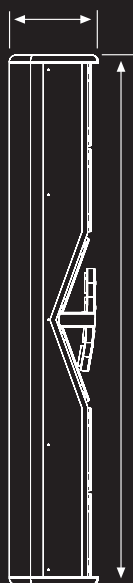
The crossover is designed to avoiding secondary lobing creation.

Mounting accessories are provided, they have been studied to keep the column as close as possible to the wall and simplify the installation allowing suitable tilting. The L2406 can be used connected to a low impedance amplifier: In this method it can handle 200W RMS power. It also includes a 60W line transformer for 100V systems.

The crossover is equipped with a circuit to protect the four 1" dome tweeters.

135 mm / 5.31"

140 mm / 5.51"



826 mm / 32.52"

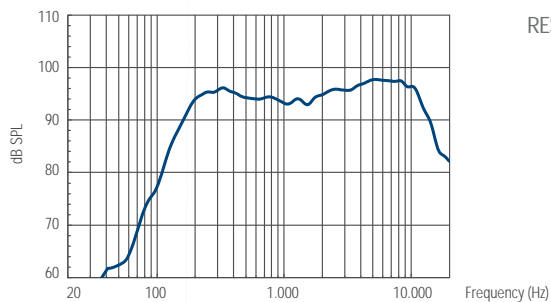
FEATURES

- High efficiency
- Controlled dispersion
- Speech enhancer filter
- LICC (Low Impedance Compensated Crossover)
- Built-in wall mounting accessories
- 200W at 8 Ohm; 60W line transformer included

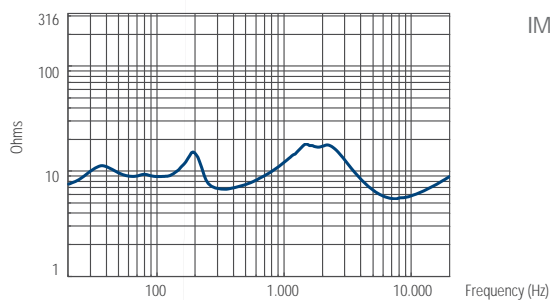
APPLICATIONS

- Permanent Installations
- Speech reinforcement
- Transportation halls
- House of worships
- Critical environments
- Auditoriums
- Main Reinforcement in small spaces
- Zone Delay and Fill Systems

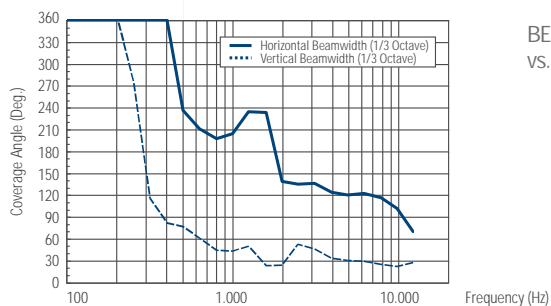




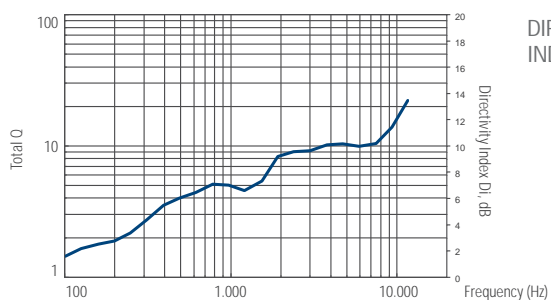
RESPONSE 1W/1m



IMPEDANCE



BEAMWIDTH
vs. FREQUENCY



DIRECTIVITY
INDEX AND Q

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PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42100 Mancasale, Reggio Emilia, Italy.- B. Model number: L2406

2.02 Design

Configuration Column speaker - LF Sub-section 6 x 5", 1" voice coil - HF Sub-section 4 x 1", 1" voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 150° - Vertical: 30° - Axial frequency range: 100 Hz-20 kHz - Axial sensitivity: 97 dB, 1W @ 1m - Power handling: Applicable power 200 W RMS - Musical power 400 W Peak power 800 W - Nominal impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 45° side angles 9 mm birch plywood construction - Rigging inserts: 4 X M5 inserts - Color: Black, white, scratch resistant paint - Grille: Custom perforated steel grille - Input Connectors: Euroblock - Dimensions (H x W x D): 32.52"x 5.31"x 5.51" - 826 x 135 x 140 mm Weight: 25.35 lb - 11.5 Kg.

SYSTEM

FREQ. RANGE (-10 dB): 100 Hz - 20 kHz

FREQ. RANGE (-3 dB): 150 Hz - 15 kHz

HORIZ. COVERAGE ANGLE (-6 dB): 150°

VERTICAL COVERAGE ANGLE (-6 dB): 30°

DIRECTIVITY FACTOR; Q: 9.25

SYSTEM SENSITIVITY: 97 dB , 1W @ 1m⁽¹⁾

RATED MAXIMUM SPL: 120 dB, @ 1m

SYSTEM NOMINAL IMPEDANCE: 8 Ohm

SELECTABLE POWER 100V: 10 - 15 - 30 - 60W

SYSTEM INPUT POWER RATING RMS: 200 W⁽²⁾

SYSTEM INPUT POWER RATING PEAK: 800 W

RECOMMENDED AMPLIFIER: 400 W⁽³⁾

HF PROTECTION: Dynamic

CROSSOVER: 2,0 kHz

TRANSDUCERS

LOW FREQUENCY: 6 X 5" (130 mm) woofer with 1" (25 mm) coil

NOMINAL IMPEDANCE: 16 Ohm

INPUT POWER RATING: 30 W AES ; 60 W Peak

SENSITIVITY: 90 dB, 1W @ 1m

HIGH FREQUENCY: 4 X 1" (25mm) throat, 1" (25mm)

NOMINAL IMPEDANCE: 8 Ohm

INPUT POWER RATING: 10 W AES ; 20 W Peak

SENSITIVITY: 90T dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Trapezoidal, 45° side angles

9 mm birch plywood construction

RIGGING INSERTS: 4 X M5

COLOR: Black, white, scratch resistant paint

GRILLE: Custom perforated steel grille

INPUT CONNECTORS: Euroblock

DIMENSIONS (H x W x D): 32.52"x 5.31"x 5.51" - 826 x 135 x 140 mm

WEIGHT: 25.35 lb - 11.5 Kg

1) Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

4 CHANNEL PROFESSIONAL POWER AMPLIFIER

EP5004

APPLICATION ORIENTED

The EP5004 offers the System Engineer an incredible versatility. From small systems to more complex or larger situations, the EP5004 provides a very cost effective solution without compromising sound quality. The amplifier is the optimum choice in many situation, from a multi-zone installation to a multi-way monitoring system. In PA systems it is possible to use 2 channel for left and right signals and bridge the other two channels for subwoofer application. The use of dedicated equalization boards guarantee the optimised sonic quality for each speaker without adding the cost of expensive processors. Equalization boards fully dedicated for the RCFACUSTICA Series Speaker Systems are available. Muting and diagnosis are available from the back panel.

POWER AND DYNAMIC

Each single amplifier is fully independent and provides up to 550 Watt on a 4 Ohm load. Each pair of amplifiers can independently operate in bridge mode delivering up to 1100 Watt on an 8 Ohm load. Our clip reduction system is dynamically tracking the power supply rail values in order to prevent clipping distortion which assures the delivery of the maximum available power. Attack and release time constants are accurately calculated to prevent any "pumping" effect.

ANALOG AND DIGITAL

The signal path is fully analog for tighter bass and clean transparent highs; controls, protections and diagnosis are digital: a proper mix respecting sound quality.

PROTECTION AND DIAGNOSIS

The system's protection provide safe operation in the most various and demanding situations. The output relays avoid transient situations at the speaker output; this system guarantees simultaneously the DC current protection and short circuit protection to the amplifier and speakers. The continuous and intensive use of the amplifier is guaranteed with continuous thermal monitoring; an optimised voltage controlled double fan cooling system acts when needed in a proportional way to the heat generated from the output transistors. The thermal controls act independently on the 4 amplifiers and on the power supply transformer.

4 status LED situated on the front panel is possible to monitor in real time each channels working condition.



FEATURES

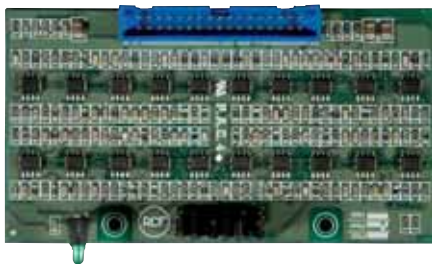
- 4 Channel amplifier in 2U
- 4 x 550 Watt/4 Ohm (2 x 1100 Watt/8 Ohm)
- Flexible bridge mode operation
- 4 independent inputs, 4 independent outputs
- 4 independent amplifiers with centralized diagnosis
- Equalization boards option
- Thermal protection, DC protection, Short Circuit protection, Current protection
- Fast limiter Circuit
- Main Voltage diagnosis, in-out signal diagnosis
- Compact design, 2 rack units
- Dedicated to permanent installations

APPLICATIONS

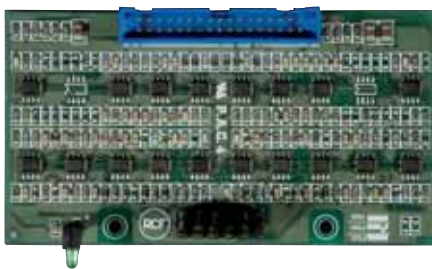
- Theaters and auditoriums
- Arenas
- AV Presentations
- Stadiums
- Club Systems
- Houses of Worship
- Bars and restaurants
- Theme parks
- Cruise ships
- Sound Reinforcement in medium to large spaces



EQUALISATION MODULES



C3108 XEQ
123.20.029



C3110 XEQ
123.20.030

To add to the outstanding versatility of the EP 5004 amplifier, RCF offer a range of high quality analog equalisation boards tailored for the RCFACUSTICA range of Speaker Systems. Currently the options offer equalisation and crossover boards for the C3108 and C3110 models and respective crossover to the S4012 and S4022 subwoofers.

Facilities offered are:

- Full Range to either C3108 or C3110
- Hi Pass for satellite speakers C3108 or C311
- Lo Pass for subwoofers S4012 or S4022
- Stereo or mono operation

TECHNICAL SPECIFICATIONS

FREQUENCY RESPONSE

20 – 20.000 Hz

MAX OUTPUT POWER

4 independent channels (8 Ohm)	350 W
4 independent channels (4 Ohm)	550 W
2 bridge channels (8 Ohm)	1100 W

DISTORTION

THD 20 - 20 KHz @ full power	0.07%
THD 20 - 20 KHz @ - 1dB under CLIP	0.02%

INPUTS

Neutrik XLR & JACK
Sensitivity 4 dBu

OUTPUTS

Neutrik SPEAKON (1+ 1- single channel, 2+ 1+ bridge)
Gain 32 dB

FRONT PANEL

4 x gain controls
4 x status LED each channel
1 x equalisation board option

REAR PANEL

Powercon AC connector
4 x XLR inputs
4 x Jack Inputs
4 x Speakon Outputs
Diagnosis board option

OPTIONS

Standard diagnosis
RS485 diagnosis
Standard Flat equalisation board
Speaker dedicated equalisation boards

DIMENSIONS

3,46" x 18,89" x 16,45"
88 x 480 x 418 mm (2 x 19" rack units)

WEIGHT

37,47"
17 Kg

4 INPUT 8 OUTPUT DIGITAL PROCESSOR

DX4008

The DX 4008 is a complete 4 input - 8 output digital loudspeaker management system designed for the touring or fixed sound installation markets. The absolute latest in available technology is utilized with 32-bit (40-bit extended) floating point processors and high performance 24-bit Analog Converters. Sampling rate can be set to 96 kHz.

The high-bit DSP prevents noise and distortion induced by truncation errors of the commonly used 24-bit fixed-point devices. A complete set of parameters include I/O levels, delay, polarity, 6 bands of parametric EQ per channel, multiple crossover selections and full function limiters.

Precise frequency control is achieved with its 1 Hz resolution.

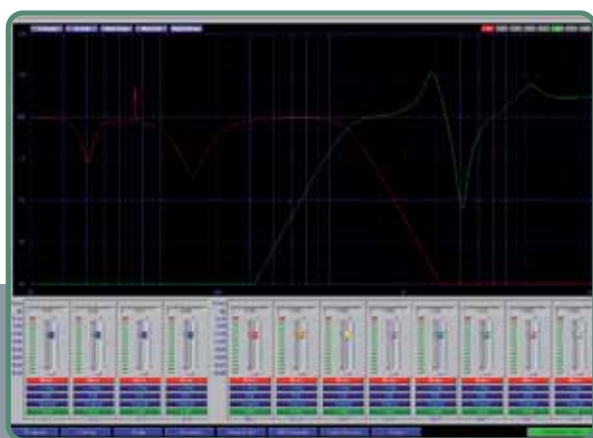
Inputs and outputs can be routed in multiple configuration to meet any requirements.

The DX 4008 can be controlled or configured in real time on the front panel or with the intuitive PC GUI accessed via the RS 232 interface. Software upgrade for CPU and DSP via PC keeps the device current with newly developed algorithms and functions once available. Multiple setup storage and system security complete this professional package.



PARAMETERS	MENU <<menu>>	FIELD <<cursor>>	MIN	MAX	STEPS	UNITS
Level	Signal	LEVEL	-40	+15	0,25	dB
Polarity	Signal	POL	+/-	+/-	+/-	+/-
Delay	Signal	DELAY	0	24,000	1	21 us step
EQ Number	EQ	EQ#	1	6	1	
EQ Level	EQ	LEVEL	-30	+15	0,25	dB
EQ Frequency	EQ	FREQ	20	20,000	1	Hz
EQ Bandwidth	EQ	BW	0.02	2.50	0.01	Octave
Crossover low	Xover	FTRL	Off / Butterworth / Linkwitz-Riley / Bessel			
Crossover low	Xover	FRQL	20	20,000	1	Hz
Crossover low	Xover	SLPL	6	48 (48 kHz) - 24 (96 kHz)	6	dB/octave
Crossover high	Xover	FTRH	Off / Butterworth / Linkwitz-Riley / Bessel			
Crossover high	Xover	FRQH	20	20,000	1	Hz
Crossover high	Xover	SLPH	6	48 (48 kHz) - 24 (96 kHz)	6	dB/octave
Out limit thresh	Limit	THRESH	-20	+20	0.5	dBu
Out Attack Time	Limit	ATTACK	0.3	100	0.1/1	ms
Out Release Time	Limit	RELEASE	2 / 4 / 8 / 16 / 32x Attack Time			
Source	Source	1,2,3,4	Off / On	Off / On	Off / On	Off / On
Channel Name	Ch-Name	NAME	6 characters	6 characters	6 characters	6 characters

DX4008 PC CONTROL SOFTWARE



The DX 4008 is shipped with a special PC Graphic User Interface (GUI) application - XLink. XLink gives the user an option to control the DX 4008 unit from a remote PC via the RS232 serial communication link.

The GUI application makes it much easier to control and monitor the device, allowing the user to get the whole picture on one screen.

Programs can be recalled and stored from/to PC's hard drive, thus expanding the storage to become virtually limitless.

TECHNICAL SPECIFICATIONS

INPUT AND OUTPUT

Input Impedance: >10k Ohm

Output Impedance: 50 Ohm

Maximum Level: +20 dBu

Type: Electronically balanced

AUDIO PERFORMANCE

Frequency Response: +/- 0.1dB (20 to 20 kHz)

Dynamic Range: 115 dB typ (unweighted)

CMMR: > 60 dB (50 to 10 kHz)

Crosstalk: < -100 dB

Distortion: 0.001% (1 kHz @18 dBu)

DIGITAL AUDIO PERFORMANCE

Resolution: 32-bit (40-bit extended)

Sampling Rate: 48 kHz/96 kHz

A/D - D/A Converters: 24-bit

Propagation Delay: 3 ms

FRONT PANEL CONTROLS

Display: 4 x 26 Character Backlit LCD

Level Meters: 5 segment LED

Buttons: 12 Mute Controls 12 Gain /

Menu Controls 6 Menu Controls

"DATA" control: Embedded Thumb Wheel
(dial encoder)

CONNECTORS

Audio: 3-pin XLR

RS-232: Female DB-9

Power: Standard IEC Socket

GENERAL

Power: 115 / 230 VAC (50 / 60 Hz)

Dimensions: 19" x 1.75" x 8"

(483 x 44 x 203 mm)

Weight: 10 lbs (4.6 kg)



PROFESSIONAL AMPLIFIERS

High Current Series Power Amplifiers

HC SERIES



HC 3200

121.35.031



HC 2000

121.35.030



HC 1600

121.35.029

These professional stereo power amplifiers, working in class-H mode, provide from 2 x 800 W up to 1 x 3200 W respectively, at an efficiency of around 85%. A massive transformer based power supply and hand selected components make these power ratings possible with exceptional audio quality and absolute reliability, even in the 2 ohm mode. The output stages are fully protected against over-temperature, short circuit, RFI and equipped with soft start circuit and temperature-controlled fan cooling. The integral soft clip limiter protects against damage to the connected loudspeakers. The activity of a protective circuit, signal and limiter is shown for each channel by LED's.

Extended Dynamic Power Amplifiers

ED SERIES



ED 600

121.35.027



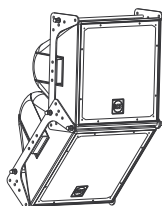
ED 1100

121.35.028

A new and unique Class-H circuitry technology allows their manufacture in SMD technology with a reduced number of components offering performance usually expected on top class products like slew rate 50 V/ μ s and high-end extended dynamic sound. The high efficiency of the ED series enables maximum efficiency with low heat generation.

PRODUCT	ED 600	ED 1100	HC 1600	HC 2000	HC 3200
Output (W) Stereo per Channel @ 8 Ohm	2 x 300 / 4 2 x 180 / 8	2 x 550 / 4 2 x 265 / 8	800/2 650/4 350/8	1000/2 800/4 500/8	1600/2 1100/4 700/8
Output (W) bridged @ 8 Ohm	1 x 600 / 8	1 x 1100 / 8	1300	1000	2200
Output (W) bridged @ 4 Ohm	1 x 310 / 4	1 x 570 / 4	1600	2000	3200
Frequency response $\pm 0,2$ dB	1 x 195 / 8	1 x 325 / 8	20Hz - 20 KHz	20Hz - 20 KHz	20 Hz - 20 KHz
Frequency response ± 3 dB	20 - 57.000 Hz	20 - 57.000 Hz	10Hz - 65 KHz	10Hz - 65 KHz	10 Hz - 65 KHz
THD + N	0,05 % @ 1 KHz	0,05 % @ 1 KHz	0,02 % at 1 KHz 0,1 % to 20 KHz	0,02 % at 1 KHz 0,1 % to 20 KHz	0,02 % at 1 KHz 0,1 % to 20 KHz
Input sensitivity	0 dBm (0,775 V RMS)	0 dBm (0,775 V RMS)	0,775 V	0,775 V	0,775 V
Input impedance	20 kOhm bal. / 10 kOhm unbal.	20 kOhm bal. / 10 kOhm unbal.	20 kOhm bal. / 10 kOhm unbal.	20 kOhm bal. / 10 kOhm unbal.	20 kOhm bal. / 10 kOhm unbal.
Dampening factor	200:1 (8 Ohm)	200:1 (8 Ohm)	200:1 (8 Ohm)	200:1 (8 Ohm)	200:1 (8 Ohm)
Slew Rate	50V/ μ S	50V/ μ S	50V/ μ S	50V/ μ S	50V/ μ S
Input connection	2 x XLR bal., 6,3mm jack unbal.	2 x XLR bal., 6,3mm jack unbal.	2 x 6,3mm jack and XLR / bal.	2 x 6,3mm jack and XLR / bal.	2 x 6,3mm jack and XLR / bal.
Output connection	2 x Neutrik Speakon4	2 x Neutrik Speakon4	2 x Speakon-4	2 x Speakon-4	2 x Speakon-4
Protection	Thermal, direct current, RFI, short circuit, transformer protection	Thermal, direct current, RFI, short circuit, transformer protection	thermal, temperature, direct current, short circuit, RFI	thermal, temperature, direct current, short circuit, RFI	thermal, temperature, direct current, short circuit, RFI
Dimensions	19", 2 U rack 19"	19", 2 U rack 19"	19", 2 U rack 19"	19", 2 U rack 19"	19", 3 U rack 19"
Weight	12,5 kg/ 28 lbs	15 kg/ 33 lbs	17 kg/ 37 lbs	18 kg/ 40 lbs	29 kg/ 64 lbs

ACCESSORIES



133.60.095 **AC P10A-BR**

Cluster brackets for P2110 (including 4 brackets to cluster 2 speakers)

133.60.094 **AC P15A-BR**

Cluster brackets for P3115/P6215 (including 4 brackets to cluster 2 speakers)



133.60.099 **AC C28 H-BR**

Pair of bracket for mounting C4128 speakers on the wall. Adjustable inclination horizontal - Black



133.60.100 **AC C28 V-BR**

Pair of bracket for mounting C4128 speakers on the wall. Adjustable inclination vertical - Black



133.60.064 **AC WM08-BR**

Aluminium pole mount stand with telescopic rod, tube diameter 35mm. - Load capacity up to 40 kg.

133.60.065 **AC WM10-BR**

Aluminium pole mount stand with telescopic rod, tube diameter 35mm. - Load capacity up to 40 kg.

133.60.013 **AC C08 H-BR**

Pair of bracket for mounting C3108 speakers on the wall - Adjustable inclination horizontal - Black

133.60.015 **AC C10 H-BR**

Pair of bracket for mounting C3110 speakers on the wall - Adjustable inclination horizontal - Black



133.60.021 **AC C12 H-BR**

Pair of bracket for mounting C5212W - 5212L speakers on the wall - Adjustable Pair of bracket for mounting C5212 speakers on the wall - Adjustable inclination horizontal - Black

133.60.023 **AC C15 H-BR**

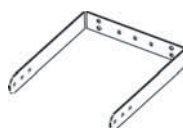
Pair of bracket for mounting C5215w - 5215L speakers on the wall - Adjustable Pair of bracket for mounting C5215 speakers on the wall - Adjustable inclination horizontal - Black

133.60.014 **AC C08 V-BR**

Pair of bracket for mounting C3108 speakers on the wall - Adjustable inclination vertical - Black

133.60.016 **AC C10 V-BR**

Pair of bracket for mounting C3110 speakers on the wall - Adjustable inclination vertical - Black



133.60.022 **AC C12 V-BR**

Pair of bracket for mounting C5212W - 5212L speakers on the wall - Adjustable inclination vertical - Black

133.60.024 **AC C15 V-BR**

Pair of bracket for mounting C5215w - 5215L speakers on the wall - Adjustable inclination vertical - Black



133.60.035 **AC S260**

Steel speaker floor stand with folding base and telescopic rod, tube diameter 35mm. - Equipped with damping system and safety plug; central die-cast joint - Load capacity up to 60 kg - Weight 7,8 Kg - H MIN/MAX 170 cm / 240 cm - Max base opening 130 cm diameter - Length once folded 123 cm.

133.60.036 **AC S140**

Aluminium speaker floor stand with folding base and telescopic rod, tube diameter 35mm. - Equipped with damping system and safety plug - Load capacity up to 40 kg - Weight 2,7 Kg - H MIN/MAX 140 cm / 214 cm - Max base opening 130 cm diameter - Length once folded 107 cm.



133.60.034 **AC PMA**

Aluminium pole mount stand with telescopic rod, tube diameter 35mm. - Load capacity up to 40 kg.



133.60.031 **AC EB 4X**

Set of four eye bolts



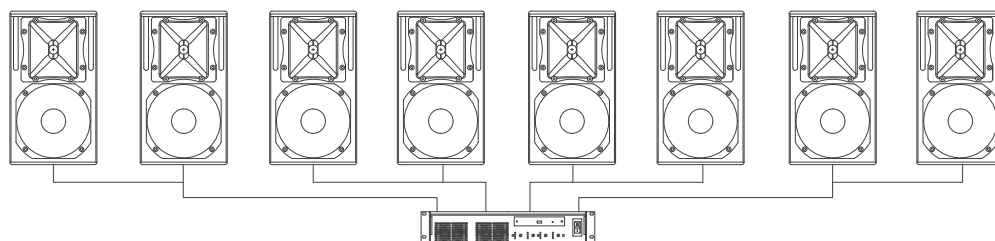
133.60.033 **AC NL4F 4X**

Kit including No. 4 Neutrik Speakon NL4F connectors.

SYSTEM CONFIGURATIONS

1

PUBLIC AREAS, BACKGROUND
FOREGROUND MUSIC, MUSIC PUBS, BARS



SPEAKERS

8 x C3108

ELECTRONIC

1 x 4 channel power amplifier,
digital processor, model EP5004

COVERAGE

8 speakers 90° x 70°

TYPICAL DISTANCE

near field, 10 m

TOTAL POWER HANDLING

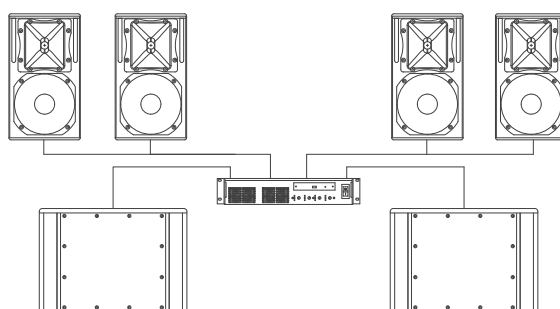
2400 W RMS

TOTAL POWER DELIVERY

2200 W (@ 4 Ohm)

2

BACKGROUND/FOREGROUND MUSIC, MUSIC PUBS,
BARS, SMALL CLUBS, AV PRESENTATIONS, DRAMA STUDIOS



SPEAKERS

4 x C3108 - 2 x S4012 subwoofers

ELECTRONIC

1 x 4 channel power amplifier,
digital processor, model EP5004

COVERAGE

120° x 70°

TYPICAL DISTANCE

near field, 10 - 15 m

TOTAL POWER HANDLING

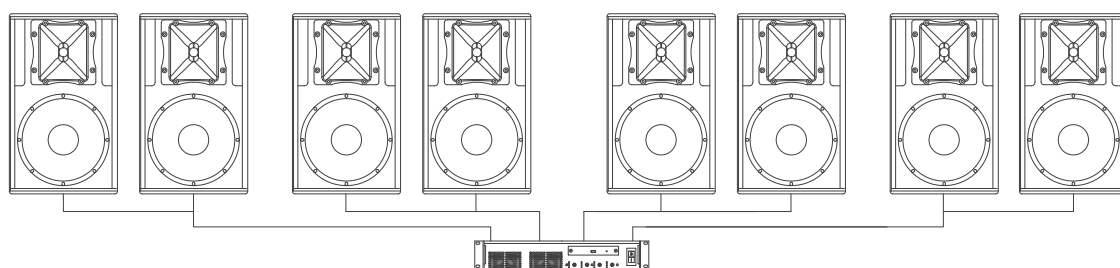
2000 W RMS

TOTAL POWER DELIVERY

2200 W (@ 4 Ohm)

PUBLIC AREAS, BACKGROUND/FOREGROUND MUSIC, MUSIC PUBS, BARS

3



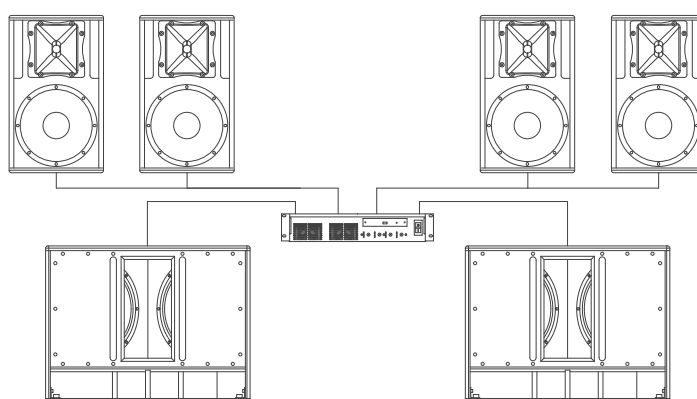
COVERAGE	8 speakers 90° x 70°
TYPICAL DISTANCE	near field, 10 - 15 m
TOTAL POWER HANDLING	2400 W RMS
TOTAL POWER DELIVERY	2200 W (@ 4 Ohm)

SPEAKERS
8 x C3110

ELECTRONIC
1 x 4 channel power amplifier,
digital processor, model EP5004

BACKGROUND/FOREGROUND MUSIC, MUSIC PUBS, BARS, SMALL CLUBS, DJS, LARGER AV PRESENTATIONS

4



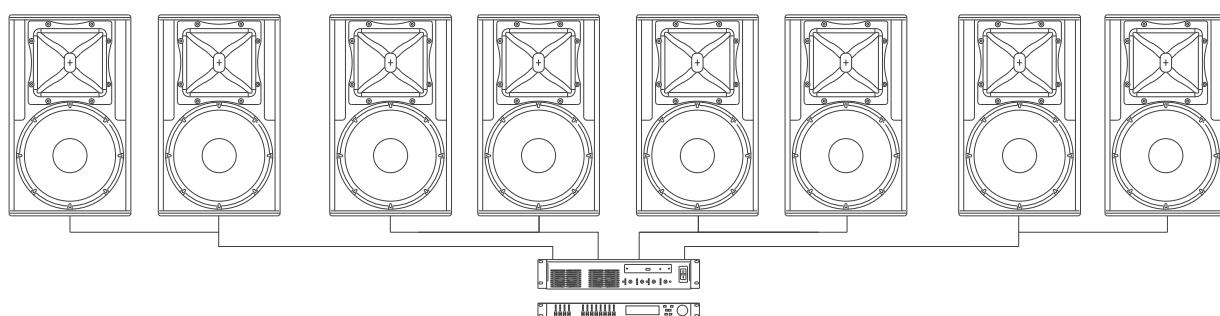
COVERAGE	120° x 70°
TYPICAL DISTANCE	near field, 15 m
TOTAL POWER HANDLING	2800 W RMS
TOTAL POWER DELIVERY	2200 W (@ 4 Ohm)

SPEAKERS
4 x C3110 - 2 x S4022 subwoofers

ELECTRONIC
1 x 4 channel power amplifier,
digital processor, model EP5004

5

PUBLIC AREAS, BACKGROUND/FOREGROUND MUSIC,
MUSIC PUBS, BARS, SMALL CLUBS, THEATRES



SPEAKERS

8 x C5212

ELECTRONIC

1 x digital crossover 4 in 8 out, equalizer, delay line, limiter, model DX4008

1 x 4 channel power amplifier, digital processor, model EP5004

COVERAGE

8 speakers 90° x 70°

TYPICAL DISTANCE

near field, 15 - 20 m

TOTAL POWER HANDLING

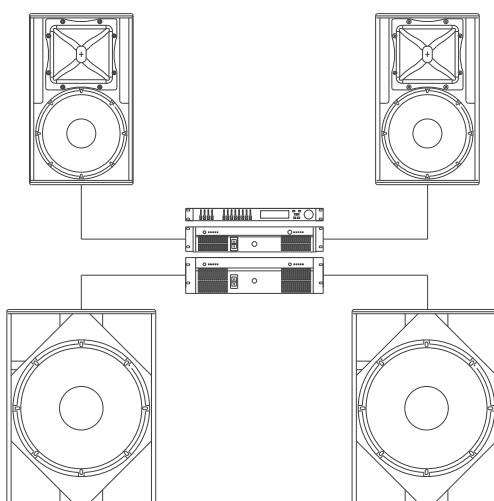
4000 W RMS

TOTAL POWER DELIVERY

2200 W (@ 4 Ohm)

6

MUSICIANS, CLUBS, DANCE FLOORS,
SMALL FOH, THEATRES



SPEAKERS

2 x C5212 - 2 x S8018 subwoofers

ELECTRONIC

1 x digital crossover 4 in 8 out, equalizer, delay line, limiter, model DX4008

1 x stereo power amplifier, model HC2000

1 x stereo power amplifier, model HC3200

COVERAGE

90° x 40° (W), 60° x 40° (L)

TYPICAL DISTANCE

near field, 15 - 20 m

TOTAL POWER HANDLING

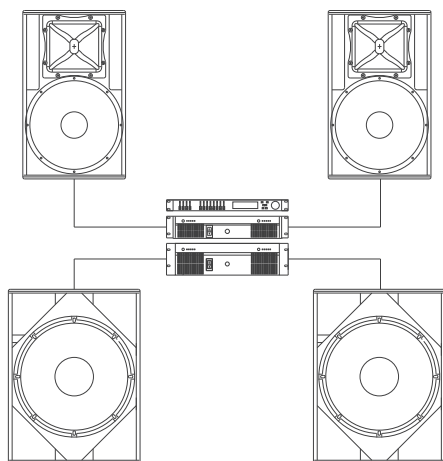
3000 W RMS

TOTAL POWER DELIVERY

3800 W (@ 4 Ohm)

MUSICIANS, LIVE BANDS, DANCE FLOORS,
CORPORATE EVENTS, SMALL FOH, THEATRES

7



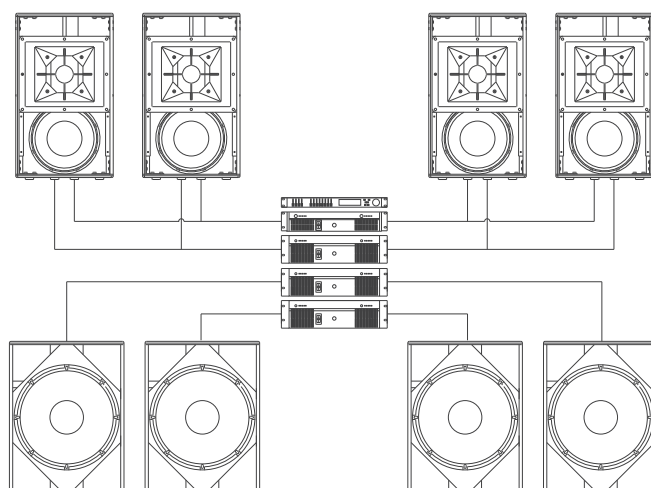
COVERAGE	90° x 40° (W), 60° x 40° (L)
TYPICAL DISTANCE	near field, 15 - 20 m
TOTAL POWER HANDLING	3000 W RMS
TOTAL POWER DELIVERY	3800 W (@ 4 Ohm)

SPEAKERS
2 x C5215 - 2 x S8018 subwoofers

ELECTRONIC
1 x digital crossover 4 in 8 out, equalizer, delay line, limiter, model DX4008
1 x stereo power amplifier, model HC2000
1 x stereo power amplifier, model HC3200

LIVE BANDS, LIVE CLUBS,
DANCE FLOORS, FOH, THEATRES

8

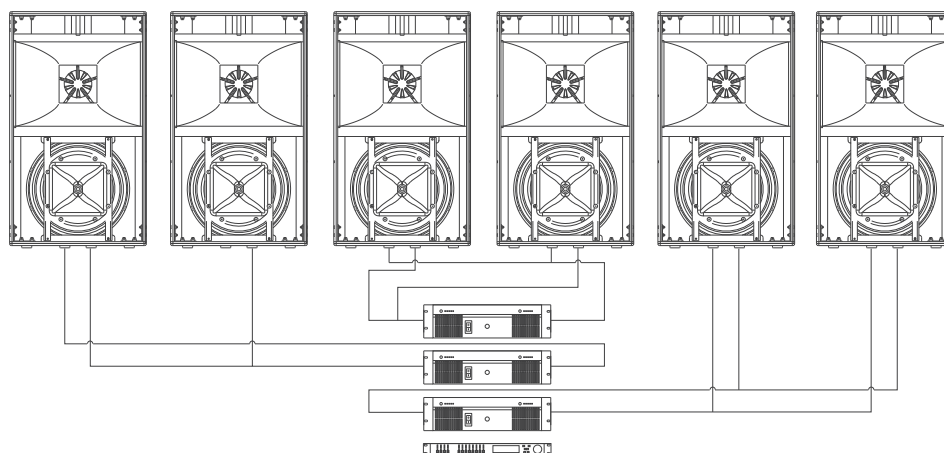


COVERAGE	120° x 60°
TYPICAL DISTANCE	mid field, 25 - 35 m
TOTAL POWER HANDLING	7600 W RMS
TOTAL POWER DELIVERY	8200 W (@ 4 Ohm)

SPEAKERS
4 x H1312 - 4 x S8018 subwoofers

ELECTRONIC
1 x digital crossover 4 in 8 out, equalizer, delay line, limiter, model DX4008
1 x stereo power amplifier, model HC2000
3 x stereo power amplifiers, model HC3200

9

ARENAS, SPORT HALLS,
CENTRAL CLUSTERS

SPEAKERS

6 x H1315

ELECTRONIC

1 x digital crossover 4 in 8 out, equalizer, delay line, limiter, model DX4008

3 x stereo power amplifiers, model HC3200

COVERAGE

360° x 40°

TYPICAL DISTANCE

mid - long field, 30 - 45 m

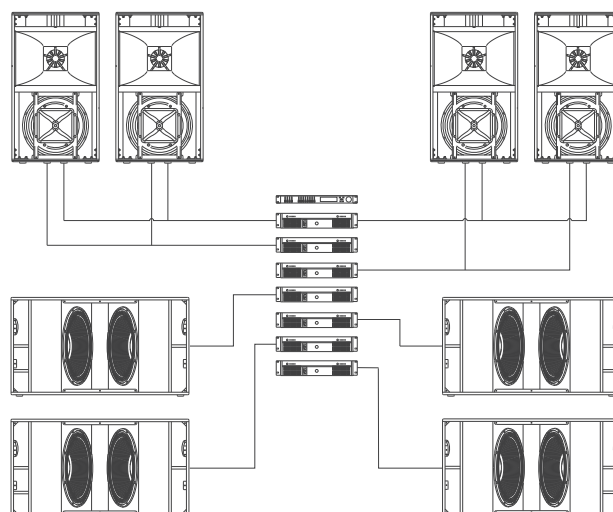
TOTAL POWER HANDLING

7800 W RMS

TOTAL POWER DELIVERY

6600 W (@ 4 Ohm)

10

FOH FOR CONCERTS,
LARGE DANCE FLOORS

SPEAKERS

4 x H1315 - 4 x S 8028 subwoofers

ELECTRONIC

1 x digital crossover 4 in 8 out, equalizer, delay line, limiter, model DX4008

7 x stereo power amplifier, model HC2000

COVERAGE

120° x 40°

TYPICAL DISTANCE

mid - long field, 30 - 45 m

TOTAL POWER HANDLING

11200 W RMS

TOTAL POWER DELIVERY

14000 W (@ 4 Ohm)



the rules of sound

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