



INSTALLED SOUND

SPEAKER SYSTEMS

the rules of sound

RCF

RCF Installed Sound speaker systems range represents a prominent chapter in the long history of RCF, started in 1949 .

Whether a speaker system is designed for permanent installation or for portable PA situations, RCF has a solution with high level of audio fidelity and intelligibility, offering superior sound definition.

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.

The RCF product portfolio is one of the most comprehensive in the market place today offering true integrated audio solutions.

This catalogue includes speaker systems designed to meet all pro-audio contractors requirements for fixed installations like café or theme bars, retail outlets, places of worship, theatres, restaurants, live venues, dance clubs, theme parks, airports, hotels, railway stations, shopping malls, auditoriums, congress centres or major sporting stadia.....

From architectural design and industry standard monitor speakers to digital steerable arrays, from the compact near and medium field "two way systems" to the "large format" horn-loaded arrayable systems for stadia and long throw sound reinforcement applications, all RCF speaker systems designed for fixed installations offer dedicated controlled horn directivity. For the maximum safety with no compromises RCF wooden cabinets have internal steel reinforcement brackets dimensioned over the most severe safety standards.

The speaker series included in this catalogue feature some of RCF's exclusive designs and technologies such as RCF Precision Woofers and Compression Drivers, "CMD" Coverage Matching Design horns providing consistent horizontal and vertical pattern control through the usable frequency range, RCF exclusive "LICC" Crossover Systems, matching amplification and control systems to fully optimise the high performance and long term reliability RCF is renowned for. RCF speaker systems equipped with compression drivers also have the RCF built in dynamic electronic protection, providing a high standard in reliability.

RCF is one of only a few loudspeaker manufacturers worldwide who completely manufactures transducers, speaker systems and amplification and control electronics.

Our 60 years heritage in Audio research and development combined with the latest manufacturing processes and high quality materials gives us the opportunity to create a complete range of systems that can individually or combined meet today's high standards in audio requirements.

Page 4

VSA



DIGITALLY STEERABLE SOUND COLUMN SPEAKER

VSA 2050 is a multi-amplified vertical steerable speaker array that represents one of the latest RCF applications of digital audio technology for indoor installations, where critical acoustic environment is an issue and where moderate visual impact is required.

Page 6

Introduction to RCF ACUSTICA



RCF Acustica is a group of high quality passive speaker series for fixed installations designed together with dedicated built-in RCF premium transducers. This complete combination helps to achieve the best audio quality in a large range of applications.

Page 8

Compact Series



COMPACT 2-WAY NEARFIELD SYSTEMS

The Compact Series is a highly advanced range of near-field 'two way direct radiating' loudspeaker systems offering dedicated models with focused horn directivity, designed with several mounting points and handles to simplify permanent installation applications.

Page 18

H Series



FULLY HORN LOADED 3-WAY MID-LONG THROW SYSTEMS

The H Series is designed to provide the output and directivity required for larger scale installations. With the H Series RCF have created designs capable of delivering high efficiency output and controlled directivity, offering a full range approach in arrayable configurations.

Page 22

Subwoofer Series



BASS REFLEX, BAND PASS, HORN LOADED SUBWOOFERS

The Subwoofer Series is a highly advanced line of compact Subwoofers, offering dedicated models in various configurations specially designed for permanent installation applications. True natural reproduction of music requires that the sound system's output should extend into the lowest octaves of the audible spectrum.

Page 32

P Series



OUTDOOR – INDOOR WEATHERPROOF SYSTEMS

The P Series is a line of highly efficient, arrayable speaker systems offering excellent music and speech intelligibility. The compact lightweight weatherproof enclosures provide the highest IP standard rating.

Page 44

L Series



PROFESSIONAL COLUMN SPEAKERS

Professional column speaker series dedicated to installations where a compact speaker with accurately controlled vertical directivity and PRO vocal audio quality is required.

Page 46

ARTi Series



MULTIPURPOSE 2 WAY SPEAKER SYSTEMS

An optimized series of two-way composite plastic speaker systems equipped with RCF premium transducers and constant directivity horns. Traditional ART audio quality, full front grille, installation mounting points.

HIGH QUALITY COMPACT SPEAKER SYSTEMS

Available in both black and white finishes, all Monitor models are designed to blend in with any decor, and deliver surprisingly deep midrange and finely-detailed high frequency response. Perfect for foreground and background music reproduction.



MONITOR Series

Page 48

ARCHITECTURAL SPEAKER SOLUTIONS

The Monitor Q Series offers modern industrial design along with impeccable acoustic engineering, together with several installation dedicated models. A true combination of design and acoustics with 'installation friendly' mounting and fixing systems to please sound contractors, architects and end customers.



MONITOR Q Series

Page 50

A wide choice of power amplifiers, dedicated speaker management digital processors, professional audio sources to complete RCF installation speaker systems range.



Electronics

Page 56

High quality pro-audio transformers and dedicated rack enclosures expressly developed to maintain the audio quality of the installation.



Racks and transformers

Page 60

MULTI-ZONE MUSIC AND PAGING SYSTEM MATRIX

An elegant slim-line device contains all the functions required by a system for distributing different musical programs in multi-room sound systems and commercial premises.



RCF Ambiente

Page 61

Accessories for Installed Sound Speaker Systems



Universal accessories for loudspeakers

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VSA2050

DIGITALLY STEERABLE ARRAY SPEAKER SYSTEM

p/n. 130.00.200 (230V) - 130.00.201 (115V) - 130.00.262 (CUSTOM COLOR)

VSA 2050 is a multi-amplified vertical steerable array that represents one of the latest RCF applications in terms of digital audio technology. Thanks to powerful DSPs (Digital Signal Processor) it processes the audio signal sent to each speaker for controlling its vertical acoustic dispersion.

It is the ideal speaker for the indoor installations where the critical acoustic environment is an issue and where moderate visual impact is required.

DIGITAL PROCESSING FOR SUPERB QUALITY AND RELIABILITY

The signal is fully processed and amplified in the digital domain, thanks also to 6 FPGAs that manage all the data inside the speaker system. The circuitry is modular so as to get maximum reliability and easy servicing.

The VSA 2050 includes two independent power supplies, microprocessor controlled for AC and DC operation in order to get a real back-up approach. Each circuit is monitored in voltage, current and in temperature.

All the requirements for using the VSA 2050 in Voice Alarm applications have been met.

SHAPING THE ACOUSTIC BEAM IN A FEW STEPS

One of the most important feature of the VSA 2050 digital array is the simplicity of the configuration process thanks to a dedicated I/R remote control. In a few steps through the remote control LCD it is virtually possible to tilt down and shape the acoustic beam, while the column speaker is installed in a physical vertical position. This configurability permits to address the audio signal exactly to the listening area, avoiding to send acoustic energy to ceilings and empty floors, thus not introducing additional bad reflections that would affect speech intelligibility, mainly in critical environments with high reverberation time.

FEATURES

Twenty 3"1/2 full-range speakers

Twenty 50W Class D power amplifiers

48 kHz 32 bit processing

Horiz. Dispersion 130°

Vert. Dispersion controlled up to 10° till 300 Hz

Power Supply 115/230Vac (600VA); 24Vdc

Extruded aluminium body

Ceramic block terminals and thermal fuse on 0dB balanced priority input

Indicators and control for EN 60849 monitoring facility

APPLICATIONS

Intelligible audio transmission in critical acoustical environments

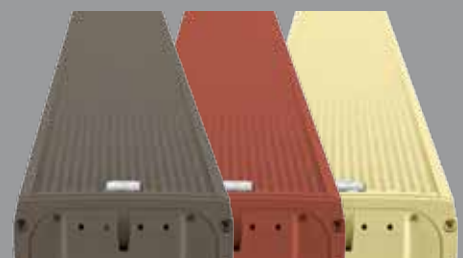
Transportation halls

Sports arenas

Convention centres, Conference halls

Auditoriums

Houses of Worship



possible custom RAL colors

HIGH PERFORMANCE SOUND AND ACOUSTIC CONTROL

20 high power digital amplifiers, driven by a high capacity power supply, assure the best possible control, intelligibility and dynamics. Several LED indicators and the possibility to remote the fault and emergency status, ensure installation and maintenance simple and convenient. Thanks to the RCF state of the art algorithm, the "focusing" control is not required since the best possible result is guaranteed overall the covered listening areas. All commands are available to tailor the acoustical coverage (tilting, dispersion and lobing) according to the range, the SPL level, installation height and the listening area to be served. The power supply can be both AC and DC, so to get full back-up facility when the product is intended for security paging. Terminals, indicators and monitoring are fully according to the EVAC norms in force. Two audio inputs can be available for managing priority systems.

HEARD BUT NOT SEEN

VSA 2050 can be installed very close to the wall, so as to be unobtrusive, thanks to its compact size and slim shape; and the tilting is just "invisible". The VSA 2050 is provided with a wall mounting accessory to be fixed to the wall. Then the column is quickly mounted to this bracket using supplied hardware. Dedicated accessories allow the installer to swivel the column to +/-30° and +/-45 degrees. It is possible to over-paint the body and the grille to better match the environmental architectural design. Plastic caps house all connectors, AC and DC power supply at one end and audio signals and interfaces on the other. The electrical connections are clearly labelled and made through screw terminals and other suitable and easy-to-wire connectors. The VSA 2050 standard version is intended for indoor applications only.

VSA-RC REMOTE CONTROL

p/n. 133.60.124

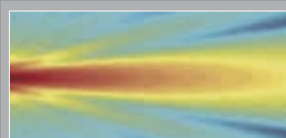


The following data are configurable on each VSA 2050 through the VSA-RC remote control:

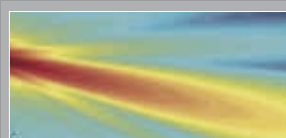
- Select virtual inclination angle
- Select vertical dispersion angle
- Delay in ms
- Voice / Music optimization filters
- Phase Shift
- Mute
- Volume
- Stand-By



Vertical beam 30°
Vertical tilt 0°



Vertical beam 10°
Vertical tilt 0°



Vertical beam 10°
Vertical tilt -30°

ACOUSTICAL SPECIFICATIONS

FREQUENCY RESPONSE:	100 Hz - 18 kHz
MAX SPL:	94 dB (A-weighted at 30 m)
HORIZONTAL COVERAGE ANGLE:	130°
VERTICAL COVERAGE ANGLE:	selectable from 10° to 30°
VERTICAL STEERING ANGLE:	selectable from 0° to +/- 40°
TRANSDUCERS:	20 x 3.5" full range speakers

INPUT SECTION

INPUT SENSITIVITY:	0 dBu , digitally controlled
INPUT CONNECTORS:	Balanced screw terminal Balanced screw terminal ceramic block
CONTROL:	Remote Control dedicated IR input Priority input command Status remote monitoring Stand by remote command
LEDs:	Active, Communication, Status,

PROCESSOR SECTION

TYPE:	Texas Instruments TMS320C6726 32 bit floating point dsp Xilinx Spartan3A FPGA, BurrBrown A/D PCM 4202 24 bit 48 kHz 118 dB S/N ratio
OPERATIONS:	20 channel PEQs, compression, beam-forming 20 channel speaker limiter and protection

AMPLIFIERS AND POWER SUPPLY

TYPE:	20 x Class D, 50 Watt amplifiers
PROTECTIONS:	Short Circuit, thermal
POWER SUPPLY:	500 Watt Switching type
POWER SUPPLY:	24Vdc Back-up
CONNECTORS:	Ceramic terminal block

PHYSICAL SPECIFICATIONS

HEIGHT:	2070 mm
WIDTH:	125 mm
DEPTH:	97 mm
WEIGHT:	19 Kg
CABINET:	Powder coated aluminium extrusion
HARDWARE:	2 x Speaker Wall Mounting Flange

ACCESSORIES

CONFIGURATION TOOL:	Remote Control
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COMPACT SERIES

RCFACUSTICA C Series represent a no compromise Compact design and construction, offering a very natural sound in recorded music and live situations. 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, while the low frequency devices can withstand peak power of up to 6 times the nominal power. All Compact Series Speakers are equipped with high power handling low impedance crossover designs with electronic protection on driver. All Compact Series cabinets are in Baltic birch, heavy duty painted. Free from spurious vibrations, they offer a steel reinforced construction with several mounting points, at the highest levels in the professional market.



SUBWOOFER SERIES

The RCFACUSTICA S 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. No matter if the installation require a subtle dynamic sound for A/V applications or an air moving club sub bass system, S Series is the solution.

L SERIES

The RCFACUSTICA L Series offer controlled vertical dispersion and wide horizontal coverage. It is ideal for applications like auditoriums, houses of worship, audio-visual systems, where the environmental acoustical requirements recommend to operate with a sound column array. L Series perform high quality and intelligibility voice and music reproduction, once combined with a subwoofer is able to provide extended music performance.



H SERIES

The RCFACUSTICA H Series is designed to provide high sensitivity, high output and directivity as required for larger scale installations. Horn-loaded Series Systems can be easily converted from vertical installation mode to space saving horizontal placement. RCF Precision Transducers and latest horn technology equip these speakers.

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 RCFACUSTICA P Series are highly efficient two-way designs offering excellent music and speech intelligibility in compact lightweight weatherProof design cabinets constructed from a heavy duty 'Roto-moulded' plastic resin UV stabilised material. P Series Speaker Systems offer environmental protection up to the highest IP standard rating.



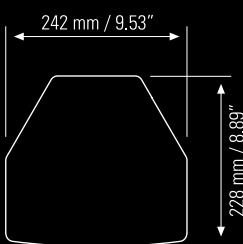
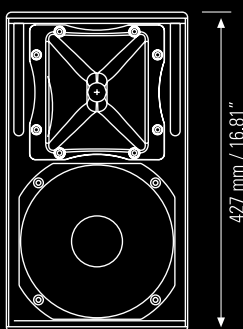
The design aesthetics of the P Series will allow outdoor applications as well as indoor installations in tough environments. For all models, the front grille construction and included bracket are made of Aluminium and Stainless Steel.

C3108

TWO WAY SPEAKER SYSTEM p/n. 130.00.030 - 130.00.108 (white)

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.

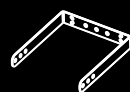
The low-frequency transducer is an 8" RCF Precision woofer with a 2" voice coil. The system includes a high-level crossover network that features markedly lower (than conventional) induction values in series with the woofer. We call this innovation LICC (Low Impedance Compensated Crossover). The benefit 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.



133.60.064 AC WM08-BR
Wall mount swivel bracket for C3108



133.60.014 AC C08 V-BR
Pair of bracket for mounting C3108 speakers on the wall - Adjustable vertical inclination - Black



133.60.013 AC C08 H-BR
Pair of bracket for mounting C3108 speakers on the wall - Adjustable horizontal inclination - Black



AVAILABLE
ALSO IN WHITE



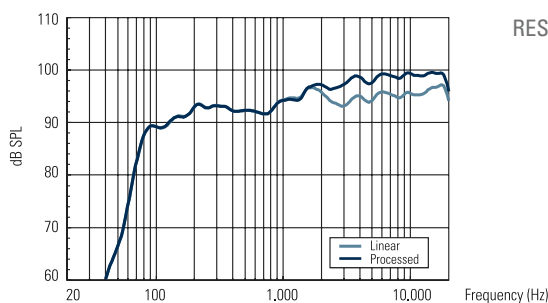
FEATURES

- 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

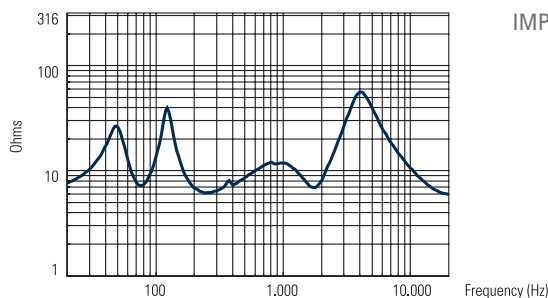
APPLICATIONS

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

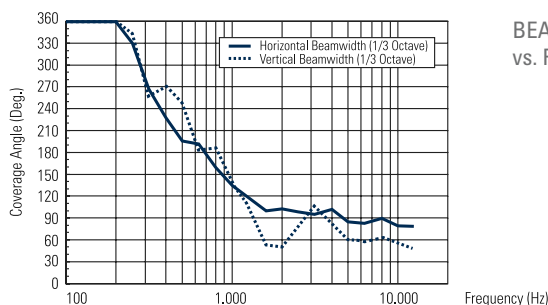
COMPACT SERIES



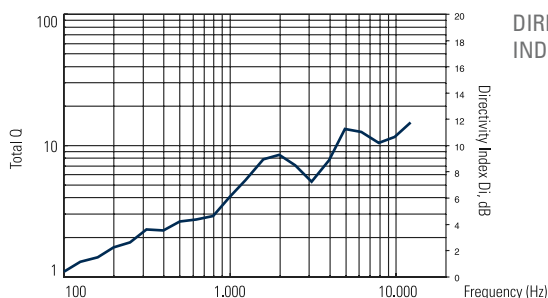
RESPONSE 1W/1m



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, 42124, 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 Proprieties

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 horizontal inclination. Colour black.

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

AC WM08-BR Wall mount swivel bracket for C3108

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:	125 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 10mm 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.

C4128

TWO WAY SPEAKER SYSTEM p/n. 130.00.170

The C4128 is a full range two 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.

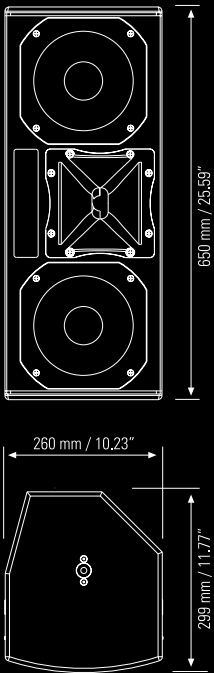
It features advanced technology, latest generation transducers: the 8" woofers are equipped with a 2" voice coil and the 1" neodymium compression driver is equipped with a 1.5" voice coil, mounted on a rotatable 90 x 70 constant directivity horn, providing very natural sound reproduction.

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.

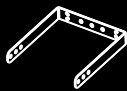
It features four M10 mounting points for horizontal or vertical U-bracket, cabinet is asymmetric (15 and 45) for versatile ceiling/wall installation and floor monitoring operation.

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 the coverage of a large audience very easy; 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.



133.60.100 AC C28 V-BR
Pair of bracket for mounting C4128 speakers on the wall - Adjustable vertical inclination - Black



133.60.099 AC C28 H-BR
Pair of bracket for mounting C4128 speakers on the wall - Adjustable horizontal inclination - Black



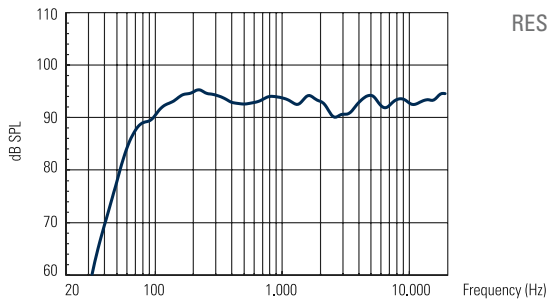
FEATURES

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

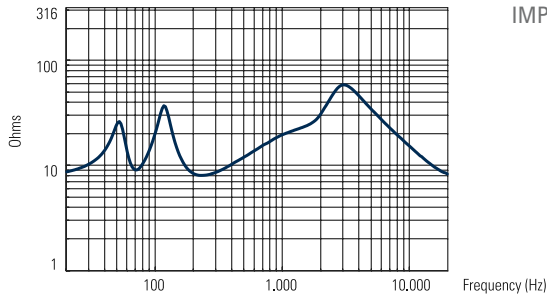
APPLICATIONS

- 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

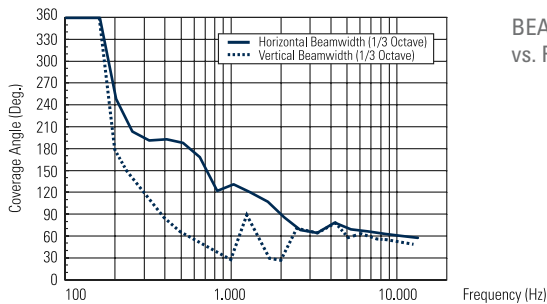
COMPACT SERIES



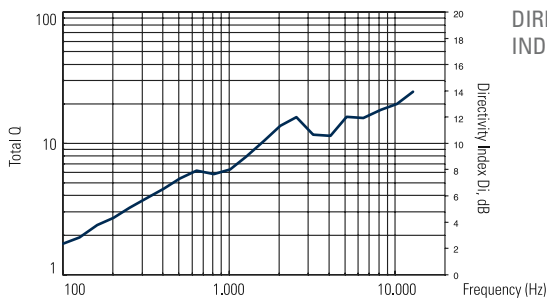
RESPONSE 1W/1m



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PART 2 PRODUCTS

2.01 Approved Manufacturer/Product
A. RCF, Via Raffaello 13, 42124, 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 Proprieties

Nominal dispersion angle: Horizontal: 90° - Vertical: 60° - Axial frequency range: 55 Hz-20 kHz - Axial sensitivity: 93 dB, 1W @ 1m - Power handling: Applicable power 400 W RMS - Musical power 800 W Peak power 1600 W - Nominal impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 15° - 45° side angles 10mm 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 horizontal inclination . Colour black.

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

SYSTEM

FREQ. RANGE (-10 dB):	55 Hz - 20 kHz
FREQ. RANGE (-3 dB):	95 Hz - 20 kHz
HORIZ. COVERAGE ANGLE (-6 dB):	90°
VERTICAL COVERAGE ANGLE (-6 dB):	60°
DIRECTIVITY FACTOR; Q:	9.25
SYSTEM SENSITIVITY:	93 dB , 1W @ 1m ⁽¹⁾
RATED MAXIMUM SPL:	125 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:	2x8" (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 10mm birch plywood construction
RIGGING INSERTS:	3 x M10, 4 X M5, 2 X M6 inserts + pole mount
COLOR:	Black, 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.

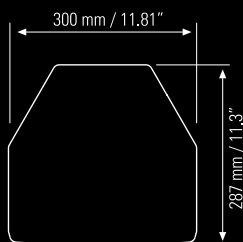
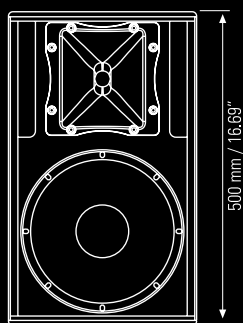
C3110

TWO WAY SPEAKER SYSTEM p/n. 130.00.043 - 130.00.109 (white)

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.

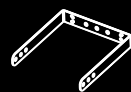
The system includes a high-level crossover network that features markedly lower (than conventional) induction values in series with the woofer. We call this innovation LICC (Low Impedance Compensated Crossover). The benefit is delay reduction, reduced phase shift and superior transient response. Dynamic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



133.60.065 AC WM10-BR
Wall mount swivel bracket for C3110



133.60.016 AC C10 V-BR
Pair of bracket for mounting C3110 speakers on the wall - Adjustable vertical inclination - Black



133.60.015 AC C10 H-BR
Pair of bracket for mounting C3110 speakers on the wall - Adjustable horizontal inclination - Black



AVAILABLE
ALSO IN WHITE



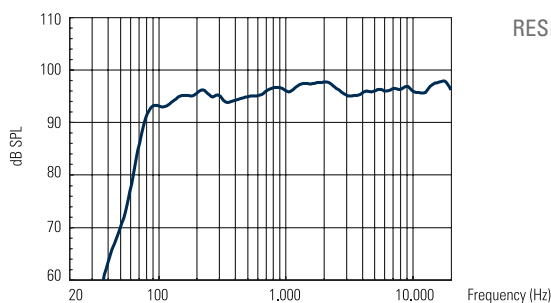
FEATURES

- 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)
- 35 mm standard internal pole mount

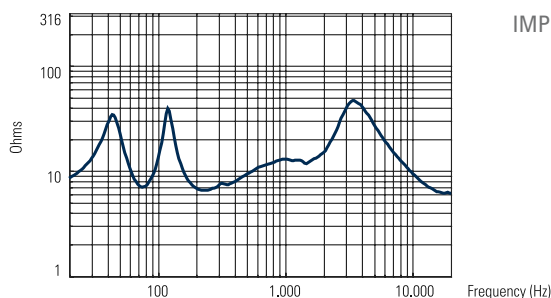
APPLICATIONS

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

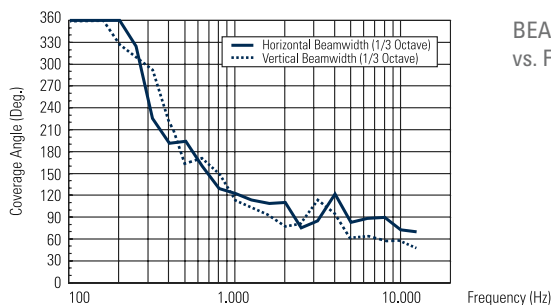
COMPACT SERIES



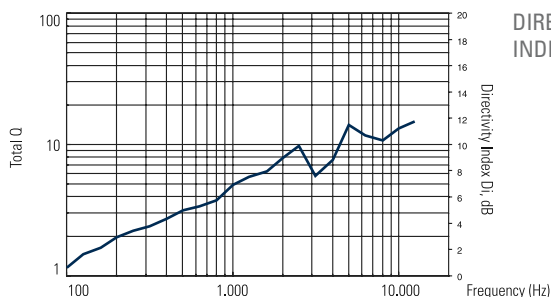
RESPONSE 1W/1m



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, 42124, 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: 96 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 horizontal inclination. Colour black.

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

AC WM10-BR Wall mount swivel bracket for C3110

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" (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 15mm 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-L

TWO WAY SPEAKER SYSTEM

p/n. C5212-W (90°x40°) WIDE ANGLE 130.00.044 - 130.00.112 (white)

p/n. C5212-L (60°x40°) LONGER THROW 130.00.045 - 130.00.111 (white)

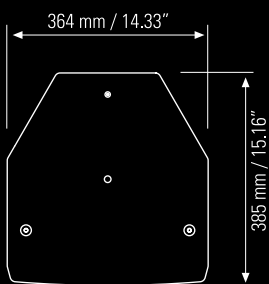
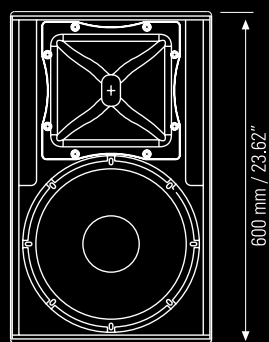
The C5212 is a full range extremely versatile wide-dispersion (model W) or narrow dispersion (model L), two-way loudspeaker system offering substantial power and efficiency for a variety of professional applications that include permanent installations, primary sound reinforcement, portable systems and 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 1.4" RCF Precision Neodymium compression driver with a 2.5" diaphragm assembly for smooth, wide dispersion. The low-frequency transducer is a 12" RCF Precision woofer with a 3" voice coil.

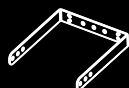
The system includes a high-level crossover network that features markedly lower (than conventional) inductance values in series with the woofer. We call this innovation LICC (Low Impedance Compensated Crossover). The benefit is delay reduction, reduced phase shift and superior transient response.

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.



133.60.022 AC C12 V-BR
Pair of bracket for mounting
C5212W - 5212L speakers on the
wall - Adjustable vertical inclination
- Black



133.60.021 AC C12 H-BR
Pair of bracket for mounting C5212W
- 5212L speakers on the wall -
Adjustable inclination inclination
horizontal - Black



AVAILABLE
ALSO IN WHITE



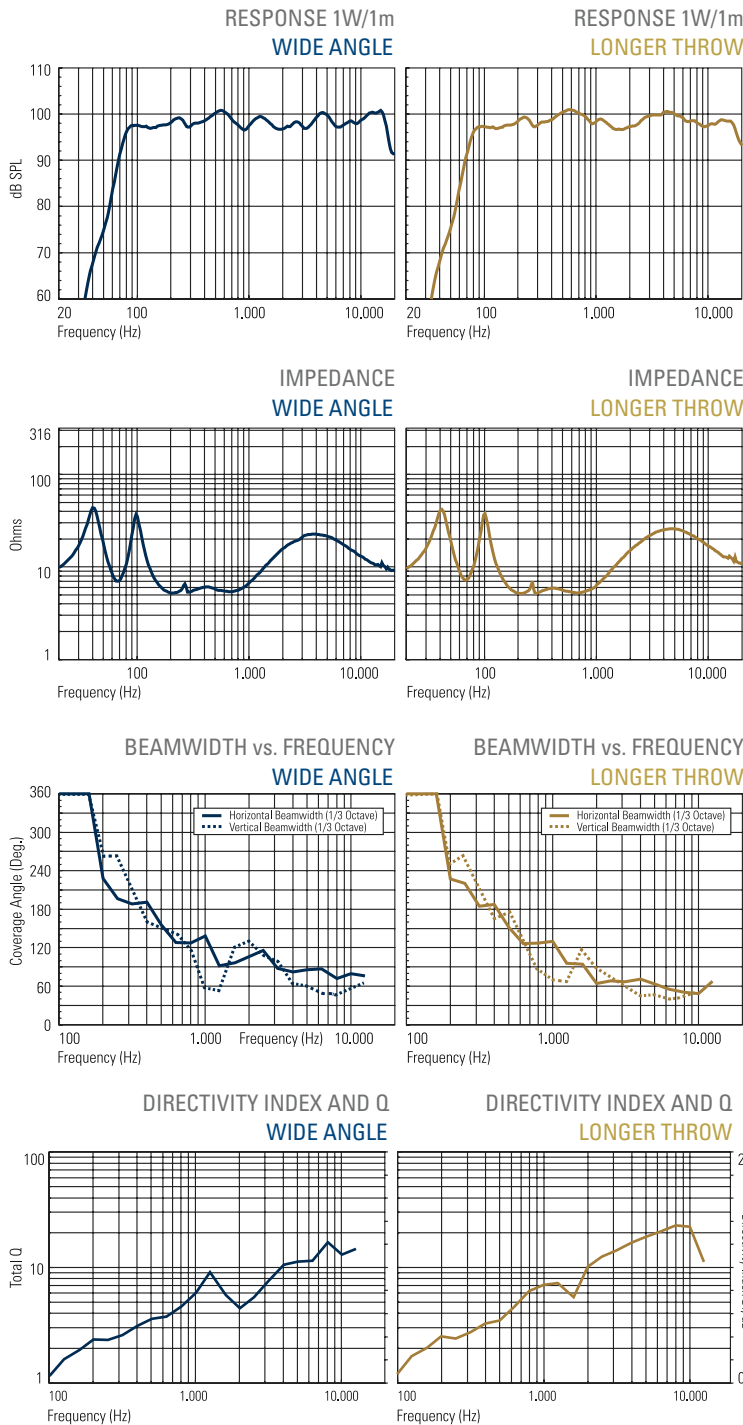
FEATURES

- 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

COMPACT SERIES



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, 42124, Reggio Emilia, Italy. - B. Model number: C5212L, C5212W

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 12" mid-bass, 3" voice coil - HF Sub-section 1.4" neodymium, 2.5" aluminium voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 90° (C5212W), 60° (C5212L) - Vertical: 40° - Axial frequency range: 54Hz-20kHz - Axial sensitivity: 99 dB1W @ 1m (C5212W), 100 dB 1W @ 1m (C5212L) - 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 15 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 C12 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): 23.62" x 14.33" x 15.16" - 600 x 364 x 385mm Weight: 50.7 lb - 23 Kg.

2.05 Accessories

AC C12 H-BR Pair of bracket for mounting C5212L or C5212W speakers on the wall. Adjustable horizontal inclination. Colour black.

AC C12 V-BR Pair of bracket for mounting C5212L or C5212W speakers on the wall. Adjustable vertical inclination. Colour black.

SYSTEM	C5212W	C5212L
FREQ. RANGE (-10 dB):	54 Hz - 20 kHz	
FREQ. RANGE (-3 dB):	65 Hz - 18 kHz	
HORIZ. COVERAGE ANGLE (-6 dB):	90°	60°
VERTICAL COVERAGE ANGLE (-6 dB):	40°	
DIRECTIVITY FACTOR; Q:	10	
SYSTEM SENSITIVITY 1W @ 1m ⁽¹⁾ :	99 dB	100 dB
RATED MAXIMUM SPL @ 1m:	132 dB	133 dB
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:	400 W AES ; 800 W Peak
SENSITIVITY:	98 dB, 1W @ 1m

HIGH FREQUENCY:	1.4" (35.5mm) throat, 2.5" (64mm) 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 15 mm birch plywood construction
RIGGING INSERTS:	9 x M10 + 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:	50.70 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-L

TWO WAY SPEAKER SYSTEM

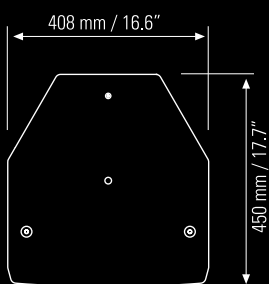
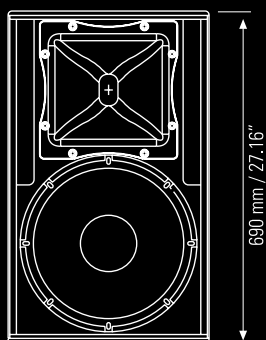
p/n. C5215-W (90°x40°) WIDE ANGLE 130.00.046 - 130.00.114 (white)

p/n. C5215-L (60°x40°) LONGER THROW 130.00.047 - 130.00.113 (white)

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, 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 1.4" RCF Precision Neodymium compression driver with a 2.5" 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.

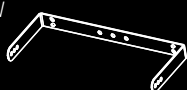
Dynamic high-frequency driver protection is accomplished with a new RCF exclusive - Active Mosfet Compression Driver Protection System, (AMCDP) chosen to complement the power curve of the driver. The C5215L's crossover is easily bypassed for bi-amp via a recessed changeover switch.



133.60.024 AC C15 V-BR
Pair of bracket for mounting
C5215W - 5215L speakers on the
wall - Adjustable vertical inclination
- Black



133.60.023 AC C15 H-BR
Pair of bracket for mounting C5215W
- 5215L speakers on the wall -
Adjustable inclination inclination
horizontal - Black



AVAILABLE
ALSO IN WHITE



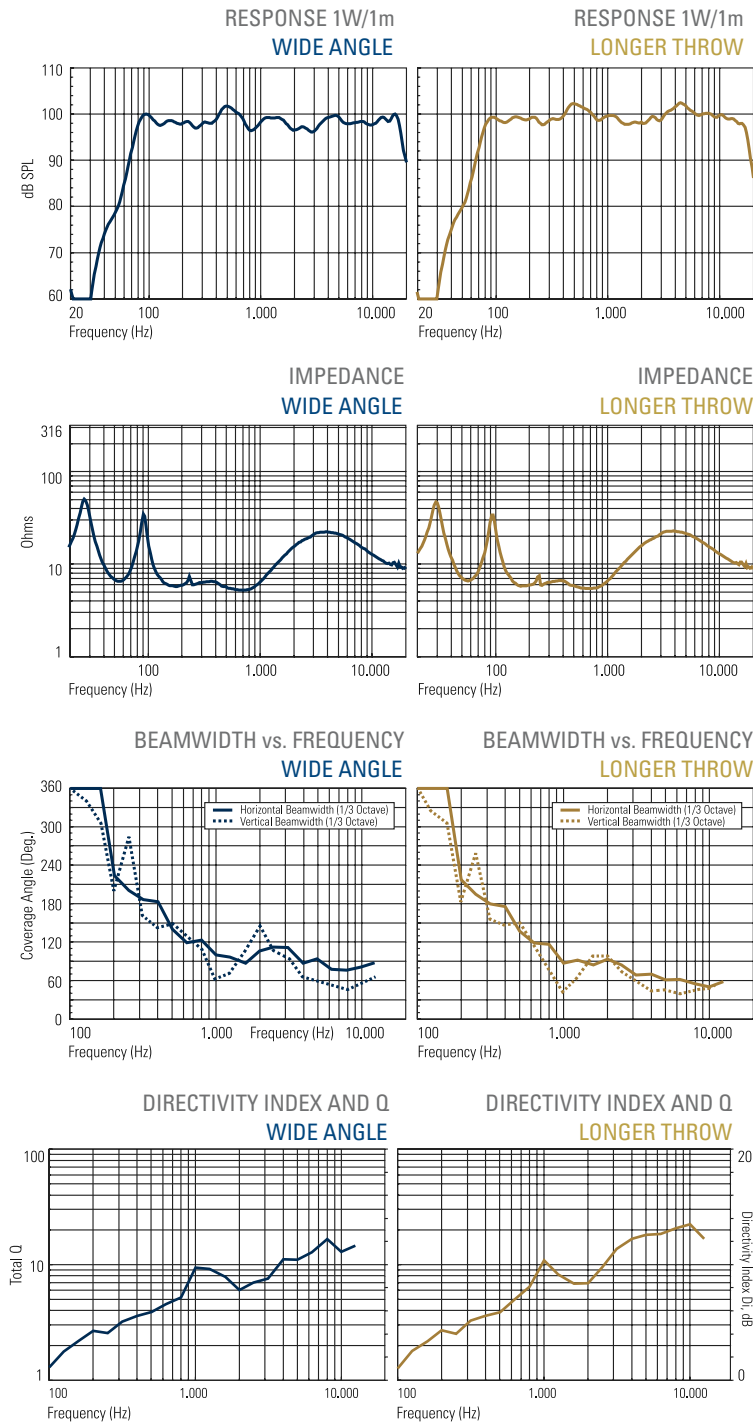
FEATURES

- 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

COMPACT SERIES



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, 42124, Reggio Emilia, Italy. - B. Model number: C5215L, C5215W

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 15" mid-bass, 3" voice coil - HF Sub-section 1.4" neodymium, 2.5" aluminium voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 90° (C5215W), 60° (C5215L) - Vertical: 40° - Axial frequency range: 48 Hz-20 kHz - Axial sensitivity: 100 dB 1W @ 1m (C5215W), 101 dB 1W @ 1m (C5215L) - 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 C15 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 horizontal inclination. Colour black.

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

SYSTEM	C5215W	C5215L
FREQ. RANGE (-10 dB):	48 Hz - 20 kHz	
FREQ. RANGE (-3 dB):	55 Hz - 18 kHz	
HORIZ. COVERAGE ANGLE (-6 dB):	90°	60°
VERTICAL COVERAGE ANGLE (-6 dB):	40°	
DIRECTIVITY FACTOR; Q:	14	
SYSTEM SENSITIVITY 1W @ 1m ⁽¹⁾ :	100 dB	101 dB
RATED MAXIMUM SPL @ 1m:	133 dB	134 dB
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:	1.4" (35.5mm) throat, 2.5" (64mm) 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 + pole mount
COLOR:	Black, white, 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.

H1312

THREE WAY HORN LOADED SPEAKER SYSTEM p/n. 130.00.083

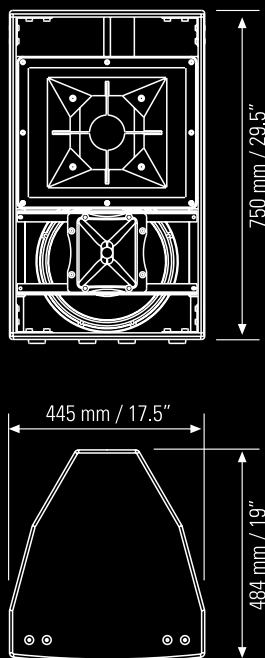
The RCFACUSTICA H1312 is three-way full range loudspeaker system that incorporate a 12" LF transducer, a 8" cone MF transducer and a 1" exit titanium compression driver. The system is very compact and provides very high output and accurate voice and sound reproduction. The system is equipped with the 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 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.

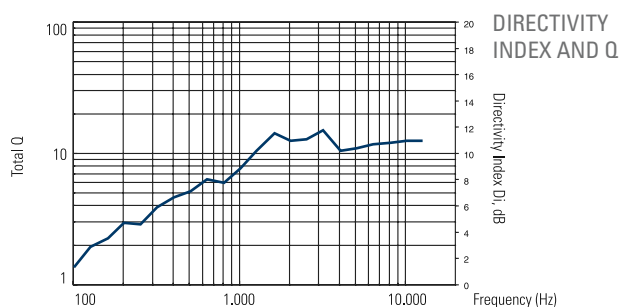
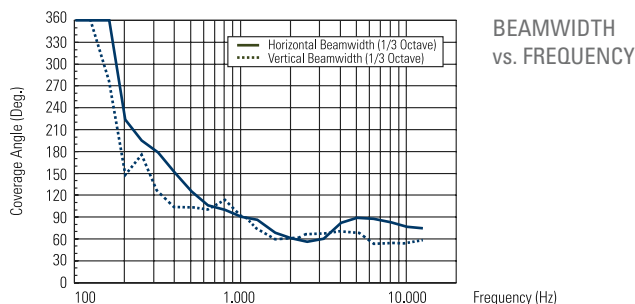
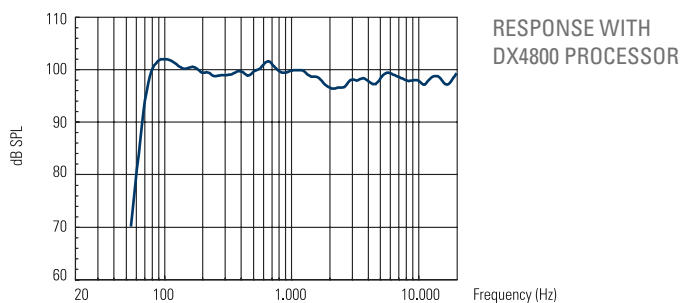


FEATURES

- 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
- AV Presentations
- Flown Clusters
- Club Systems
- Main PA in mid to large-size systems



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, 42124, 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" neodymium, 1,75" aluminium voice coil.

2.03 Acoustical Proprieties

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: 78.26 lb - 35,5 Kg.

SYSTEM

FREQ. RANGE (-10 dB):	60 Hz - 20 kHz
FREQ. RANGE (-3 dB):	75 Hz - 20 kHz
HORIZ. COVERAGE ANGLE (-6 dB):	90°
VERTICAL COVERAGE ANGLE (-6 dB):	60°
DIRECTIVITY FACTOR; Q:	11
SYSTEM SENSITIVITY:	LF 98 dB , HF/MF 106 1W @ 1m ⁽¹⁾
RATED MAXIMUM SPL:	134 dB, @ 1m
SYSTEM NOMINAL IMPEDANCE:	8 Ohm
SYSTEM INPUT POWER RATING RMS:	LF 800 W, HF/MF 300W ⁽²⁾
SYSTEM INPUT POWER RATING PEAK:	LF 3200 W, HF/MF 1200W
RECOMMENDED AMPLIFIER:	LF 1600 W, HF/MF 600W ⁽³⁾
HF PROTECTION:	Active Mosfet compression driver
CROSSOVER:	Recommended 500 kHz, internal MF/HF 2000 Hz

TRANSDUCERS

LOW FREQUENCY:	12" (304mm) woofer with 4" (100 mm) coil
NOMINAL IMPEDANCE:	8 Ohm
INPUT POWER RATING:	800 W AES
SENSITIVITY:	98 dB, 1W @ 1m
MID FREQUENCY:	8" (203mm) midrange with 3" (76 mm) coil
NOMINAL IMPEDANCE:	8 Ohm
INPUT POWER RATING:	250 W AES
SENSITIVITY	107 dB, 1W @ 1m
HIGH FREQUENCY:	1" (25mm) throat, 1,75" (44mm) coil
NOMINAL IMPEDANCE:	8 Ohm
INPUT POWER RATING:	40 W AES
SENSITIVITY:	109 dB, 1W @ 1m

PHYSICAL

ENCLOSURE:	Double Trapezoidal, 15 mm birch plywood construction
RIGGING INSERTS:	12 x M10, rigging point
COLOR:	Black, scratch resistant paint
GRILLE:	Custom perforated steel grille
INPUT CONNECTORS:	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.

H1315 H1315 WP

THREE WAY HORN LOADED SPEAKER SYSTEM

p/n. 130.00.084

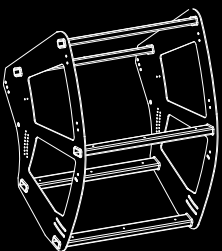
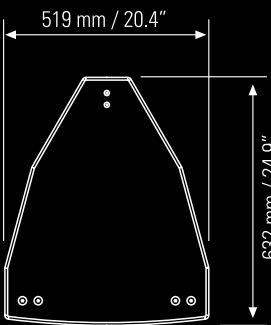
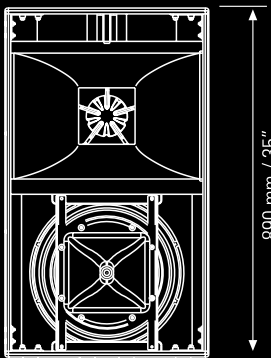
THREE WAY INDOOR/OUTDOOR
HORN LOADED SPEAKER SYSTEM

p/n. 130.00.266

The RCFACUSTICA H1315 and H 1315WP are three-way full range loudspeaker systems that incorporate a 15" LF transducer, a 10" cone MF transducer and a 1.4" exit titanium compression driver. The difference between the two models is just relevant to the cabinet and components finishing, treatment and other details so to install the WP version in environments with high humidity or even outdoor. The speaker system is very compact and provides very high output and accurate voice and sound reproduction.

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 rotatable horn with a coverage of 60° x 40°.

The internal crossover network between midrange and compression driver offers a unique Compression Driver Protection thanks to a an Active MOSFET Circuit. The system is driven in bi-amped mode, is able of producing a Max SPL higher than 136 dB and handles 900 Watts AES (LF) + 400 Watt AES (MF/HF). The loudspeaker enclosure shape is multi-trapezoidal and allow a double coupling angle each side. The cabinet of the H 1315 is constructed of multi-ply Baltic birch plywood and finished in a very resistant, textured, polyurethane black paint. The H1315 WP cabinet is treated inside-outside with polyurea 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 for H 1315 version and equipped with two layers of weather-resistant open-cell fibres and water repellent woven fabric backing for WP version. The transducer cones as well carry a special additional treatment to resist against critical environmental conditions. While standard version uses a SPEAKON connector, the H 1315 WP is equipped with an IP 67 removable Amphenol terminal.



133.60.202 AC CLST-H1315
Cluster Flybar for two x H1315



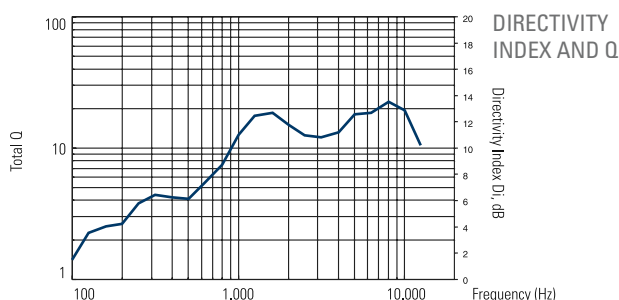
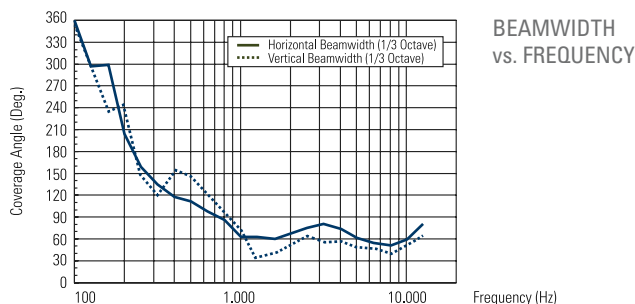
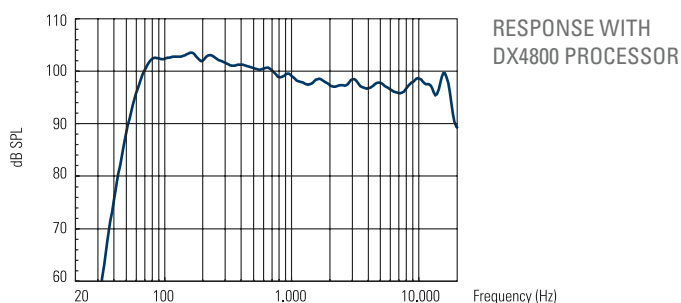
FEATURES

- Compact Arrayable 3-way System
- Fully Horn-loaded LF/MF/HF (60° x 40° 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





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, 42124, Reggio Emilia, Italy. B. Model number: H1315 - H1315 WP

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 1.4" neodymium, 3" aluminium voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 60° - 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 (H1315 WP inside-outside polyurea black paint). Grille: Custom perforated steel grille with open-cell poly fibre backing (H1315 WP epoxy powder coated, weather-resistant open-cell fibres and water repellent woven fabric backing). Input Connectors: 2 X Speakon® NL4 (H1315 WP Amphenol eco|mat IP67). Dimensions (H x W x D): 890 x 520 x 632 mm.

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.

SYSTEM

FREQ. RANGE (-10 dB):	50 Hz - 20 kHz
FREQ. RANGE (-3 dB):	65 Hz - 20 kHz
HORIZ. COVERAGE ANGLE (-6 dB):	60°
VERTICAL COVERAGE ANGLE (-6 dB):	40°
DIRECTIVITY FACTOR; Q:	12
SYSTEM SENSITIVITY:	LF 100 dB , HF/MF 108 1W @ 1m ⁽¹⁾
RATED MAXIMUM SPL:	136 dB, @ 1m
SYSTEM NOMINAL IMPEDANCE:	8 Ohm
SYSTEM INPUT POWER RATING RMS:	LF 900 W, HF/MF 400W ⁽²⁾
SYSTEM INPUT POWER RATING PEAK:	LF 3600 W, HF/MF 1600W
RECOMMENDED AMPLIFIER:	LF 1800 W, HF/MF 800W ⁽³⁾
HF PROTECTION:	Active Mosfet compression driver
CROSSOVER:	Recommended 300 kHz, internal MF/HF 1300 Hz

TRANSDUCERS

LOW FREQUENCY:	15" (381mm) woofer with 4" (100 mm) coil
NOMINAL IMPEDANCE:	8 Ohm
INPUT POWER RATING:	900 W AES
SENSITIVITY:	100 dB, 1W @ 1m
MID FREQUENCY:	10" (254mm) midrange with 3" (76 mm) coil
NOMINAL IMPEDANCE:	8 Ohm
INPUT POWER RATING:	300 W AES
SENSITIVITY:	109 dB, 1W @ 1m
HIGH FREQUENCY:	1.4" (35.5mm) throat, 3" (75mm) coil
NOMINAL IMPEDANCE:	8 Ohm
INPUT POWER RATING:	110 W AES
SENSITIVITY:	109 dB, 1W @ 1m

PHYSICAL

ENCLOSURE:	Double Trapezoidal, 15 mm birch plywood construction
RIGGING INSERTS:	12 x M10, rigging point
COLOR:	Black, scratch resistant paint (H1315 WP inside-outside polyurea black paint)
GRILLE:	Custom perforated steel grille (H1315 WP epoxy powder coated, weather-resistant open-cell fibres and water repellent woven fabric backing)
INPUT CONNECTORS:	Speakon® NL4 (H1315 WP Amphenol eco mat IP67)
DIMENSIONS (H x W x D):	35.03" x 20.47" x 24.88" 890 x 520 x 632 mm
WEIGHT:	99.20 lb - 45 Kg

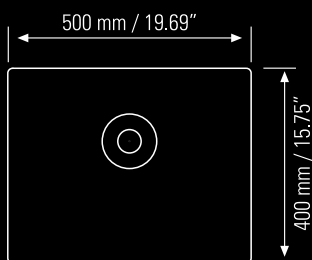
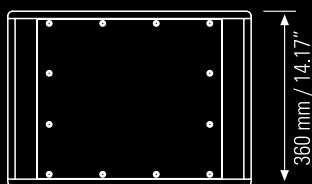
S4012

BAND-PASS SUBWOOFER p/n. 130.00.048 - 130.00.115 (white)

The S4012 high-efficiency Band-pass 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 Band-pass 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



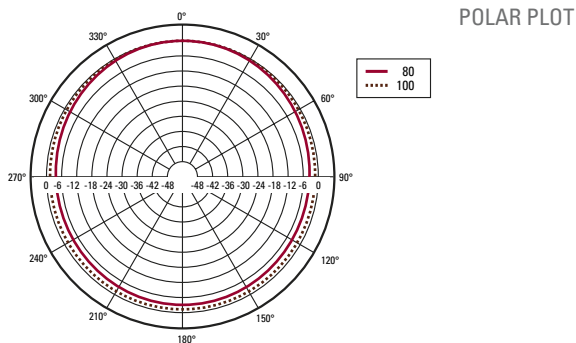
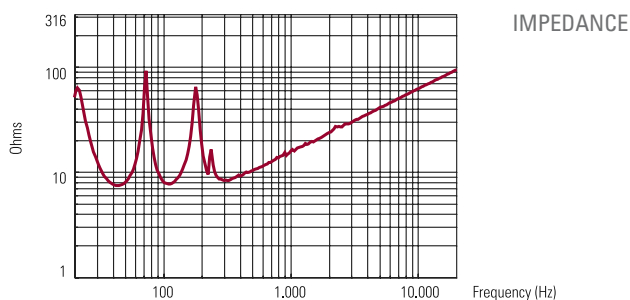
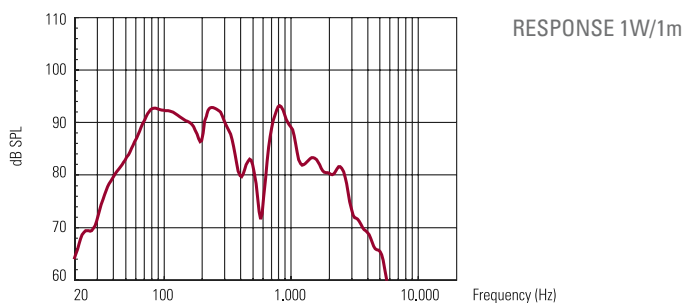
FEATURES

- 12" high-efficiency RCF Precision 3" voice-coil woofer with Inside/Outside Coil Technology
- Horn reflex loaded woofer
- 124dB 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

SUBWOOFER SERIES



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, 42124, 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:	92 dB, 1W @ 1m ⁽¹⁾
RATED MAXIMUM SPL:	124 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 mm) woofer with 3" (76 mm) in/out voicecoil
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 45 Hz to 200 Hz.

²⁾ AES standards

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

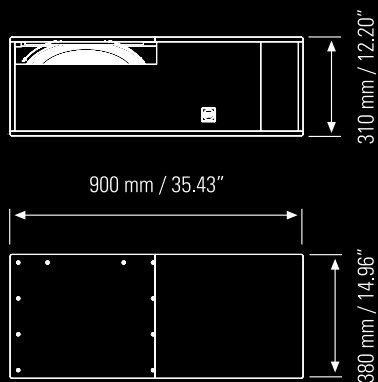
S8015

BAND-PASS SUBWOOFER p/n. 130.00.168

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.



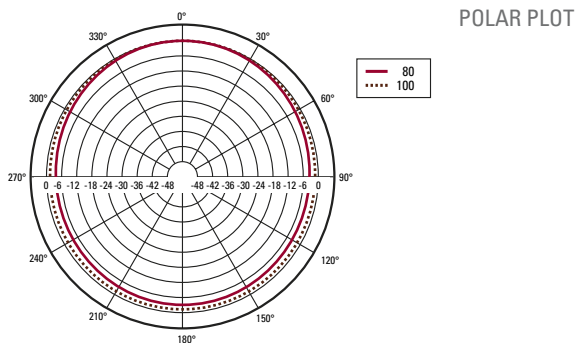
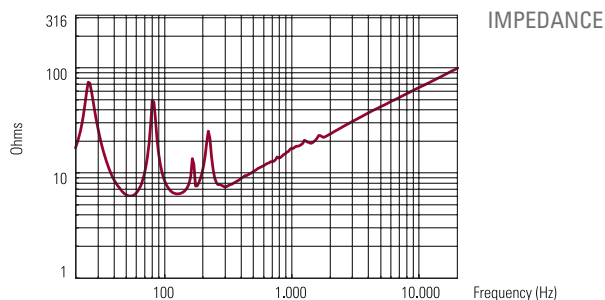
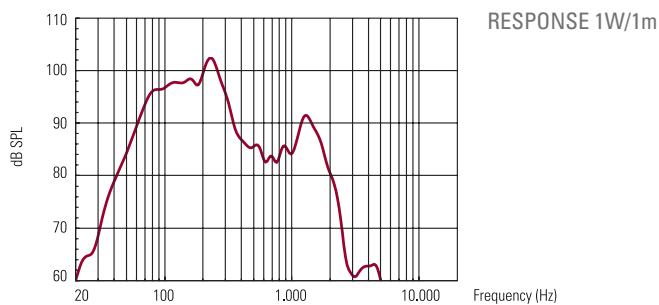
FEATURES

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

SUBWOOFER SERIES



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) in/out voicecoil
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
RIGGING INSERTS:	Pole mount
COLOR:	Black, scratch resistant paint
GRILLE:	Custom perforated steel grille
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")

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PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42124 , 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 43 Hz to 250 Hz.

²⁾ AES standards

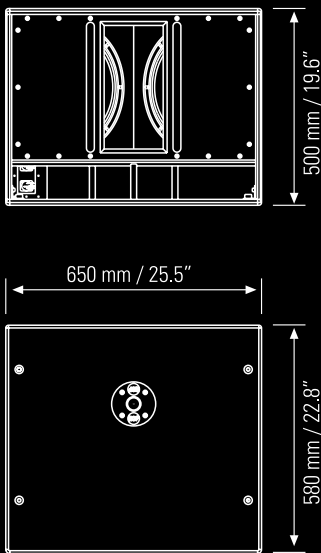
³⁾ Recommended Amplifier is a power capability value that should be taken as a guide.

S4022

BAND-PASS SUBWOOFER p/n. 130.00.082

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.



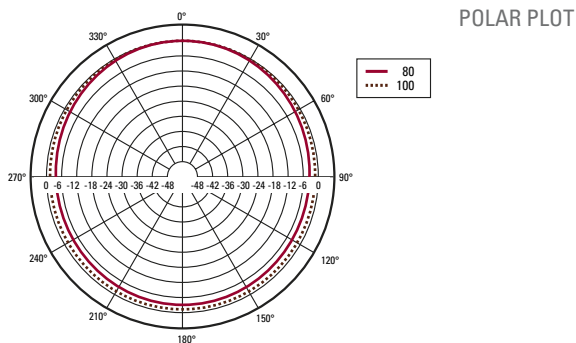
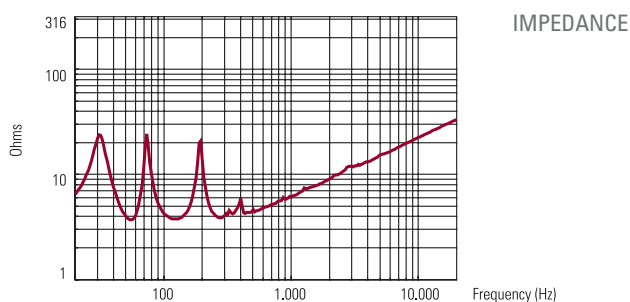
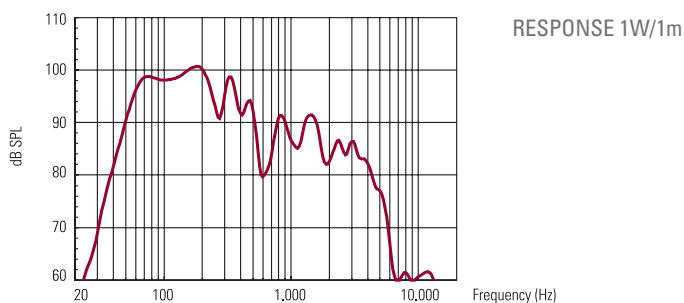
FEATURES

- 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

SUBWOOFER SERIES



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:	2x12" (304.8 mm) woofer with 3" (76 mm) in/out voicecoil
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, 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

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PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42124 , 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 800 W RMS. Musical power 1600W - Peak power 2400 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 40 Hz to 200 Hz.

²⁾ AES standards

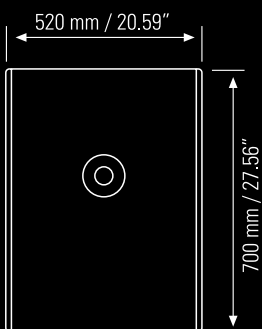
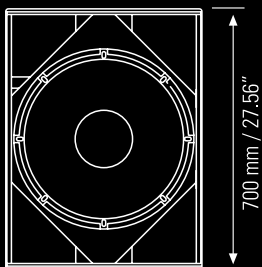
³⁾ Recommended Amplifier is a power capability value that should be taken as a guide.

S8018

BASS-REFLEX SUBWOOFER p/n. 130.00.051

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 bass-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.



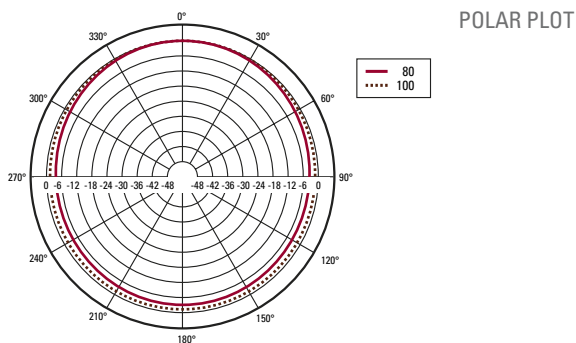
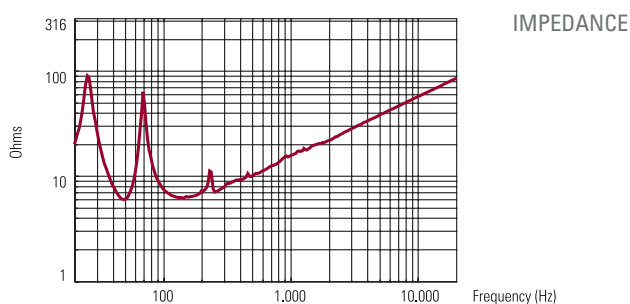
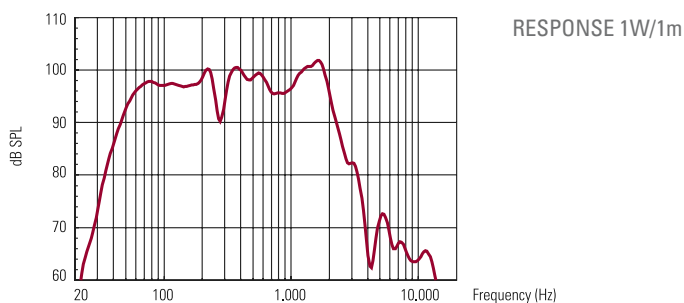
FEATURES

- 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

SUBWOOFER SERIES



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 mm) in/out voicecoil
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:	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

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, 42124 , 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 Properties

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.

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 40 Hz to 200 Hz.

²⁾ AES standards

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

S8028

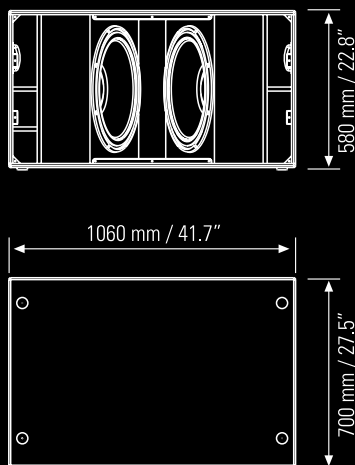
BASS-REFLEX SUBWOOFER p/n. 130.00.085

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.



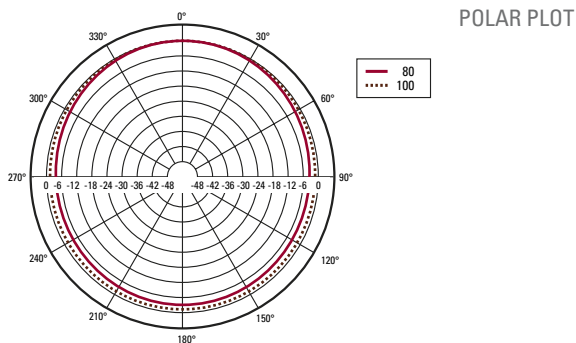
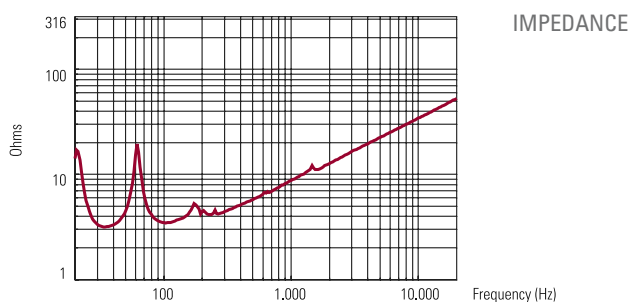
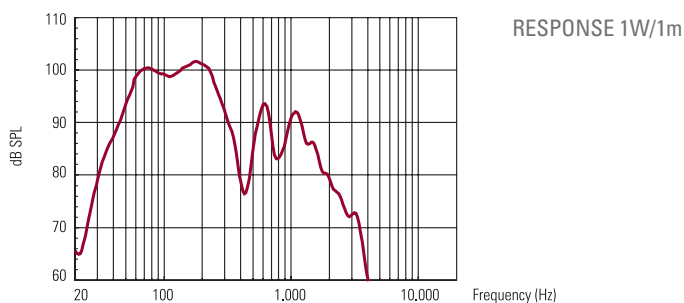
FEATURES

- 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

SUBWOOFER SERIES



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, 42124, 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 Proprieties

Axial frequency range: 35 Hz - 200 Hz. Axial sensitivity: 99 dB, 1W @ 1m. Power handling: Applicable power 2000 W RMS. Musical power 4000 W. Peak power 8000 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	35 Hz - 200 Hz
SYSTEM SENSITIVITY:	99 dB , 1W @ 1m ⁽¹⁾
RATED MAXIMUM SPL:	138 dB, @ 1m
SYSTEM NOMINAL IMPEDANCE:	4 Ohm
SYSTEM INPUT POWER RATING RMS:	2000 W ⁽²⁾
SYSTEM INPUT POWER RATING PEAK:	8000 W
RECOMMENDED AMPLIFIER:	4000 W ⁽³⁾

TRANSDUCERS

LOW FREQUENCY:	2 x 18" (457.2 mm) woofer with 4" (100 mm) in/out voicecoil
NOMINAL IMPEDANCE:	8 Ohm
INPUT POWER RATING:	1000 W AES each

PHYSICAL

ENCLOSURE:	Rectangle, 15 mm birch plywood construction
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 35 Hz to 200 Hz.

2) AES standards

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

P5228-L

OUTDOOR/INDOOR TWO WAY SPEAKER SYSTEM

p/n. 130.00.202

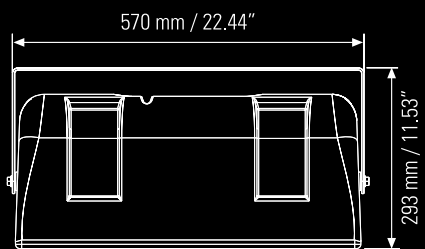
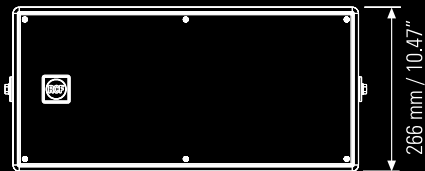
The P5228-L is an IP 55 (International Protection Rating) weatherproof full range, two-way line array loudspeaker module, offering substantial power and efficiency for a variety of professional indoor or outdoor applications.

The high frequency section includes two constant directivity CMD horn, each loaded with a 1" RCF Precision Neodymium compression driver with a 1.75" diaphragm assembly for smooth, wide horizontal dispersion and highly controlled 20° vertical

coverage. The low-frequency transducers are two 8" woofers with a 2.5" voice coil.

The cabinet is a single piece rotational molded enclosure, made in medium density polyethylene, fully UV protected equipped with 4 x M 8 brass inserts and a stainless steel U-Bracket.

Connections to the amplifier are made through a watertight multi-pole connector. The grille is in custom perforated aluminum with open-cell fibers and water repellent woven fabric backing.



130.60.119 AC P28 A-BR
Cluster brackets for P4228 and P5228-L
(including 4 brackets to cluster 2 speakers)

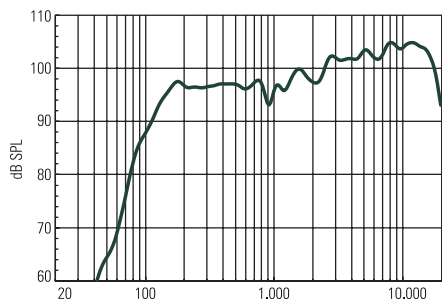


FEATURES

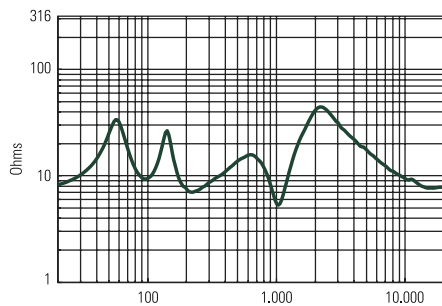
- Weatherproof cabinet IP55
- Aluminium grill and stainless steel bracket
- Two 8" high-output LF transducers with 2.5" voice coil
- One RCF Precision Neodymium 1" compression driver with 1.75" diaphragm assembly
- 90° x 20° constant directivity horn
- 2° x 15° enclosure sides for array configurations
- Active Mosfet Compression Driver Protection
- LICC (Low Impedance Compensated Crossover) network
- Input connector 4 pole Amphenol IP 67

APPLICATIONS

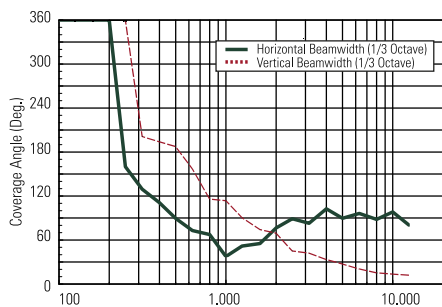
- Outdoor Sound Reinforcement in medium-large spaces
- High-Level AV Playback
- Flown cluster configurations
- Large speech systems
- Music Sound Reinforcement



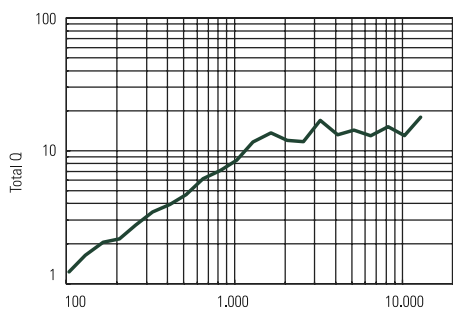
RESPONSE 1W/1m



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 of project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42124, Reggio Emilia, Italy – B. Model number: P5228-L

2.02 Design

Configuration Compact 2 way speaker – LF Sub-section 2 x 8" woofer, 2.5" voice coil – HF Sub-section 2 x 1" horn loaded, 1.75" voice coil.

2.03 Acoustical Properties

Nominal dispersion angle: Horizontal: 90° - Vertical: 20° - Axial Frequency range: 80 Hz-20kHz – Axial Sensitivity: 98 dB, 1W @ 1m – Power handling: Applicable power 500W RMS – Musical power 1000W – Peak power 2000W – Nominal Impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 2° Horizontal side angles, 15° Vertical side angles, 8 mm Polyethylene rotomoulded – Rigging insert: 4 x M8 + 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 pole Amphenol – Dimensions: (H x W x D): 22.28" x 10.55" x 16.23" – 566 x 268 x 250 mm – Weight: 33.88 lbs - 15.37 Kg.

SYSTEM

FREQ. RANGE (-10 dB):	80 Hz - 20 kHz
FREQ. RANGE (-3 dB):	100 Hz - 20 kHz
HORIZ. COVERAGE ANGLE (-6 dB):	90°
VERTICAL COVERAGE ANGLE (-6 dB):	20°
DIRECTIVITY FACTOR; Q:	11
SYSTEM SENSITIVITY:	98 dB , 1W @ 1m
RATED MAXIMUM SPL:	131 dB, @ 1m
SYSTEM NOMINAL IMPEDANCE:	8 Ohm
SYSTEM INPUT POWER RATING RMS:	500 W
SYSTEM INPUT POWER RATING PEAK:	2000 W
RECOMMENDED AMPLIFIER:	1000 W
HF PROTECTION:	Dynamic
CROSSOVER:	1.3 kHz

TRANSDUCERS

LOW FREQUENCY:	2x8" (200 mm) woofer with 2.5" (64 mm) coil
NOMINAL IMPEDANCE:	16 Ohm
INPUT POWER RATING:	300 W AES ; 1200 W Peak
SENSITIVITY:	95 dB, 1W @ 1m

HIGH FREQUENCY:	2x1" (25.5mm) throat, 1.75" (44.4 mm) coil diaphragm assembly
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NOMINAL IMPEDANCE:	16 Ohm
INPUT POWER RATING:	50 W AES ; 200 W Peak
SENSITIVITY:	109 dB, 1W @ 1m

PHYSICAL

ENCLOSURE:	Trapezoidal, 2° Horizontal side angles, 15° Vertical side angle, 8 mm Polyethylene rotomoulded
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RIGGING INSERTS:	4 x M8 inserts
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COLOR:	Grey
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GRILLE:	Custom perforated aluminium grille with open-cell fiber and water repellent woven fabric backing
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INPUT CONNECTORS:	4 pole Amphenol
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DIMENSIONS (HxWxD):	22.28" x 10.55" x 16.23" 566 x 268 x 250 mm
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WEIGHT:	30.8 lb - 14 Kg
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P4228

OUTDOOR/INDOOR TWO WAY SPEAKER SYSTEM

p/n. 130.00.199

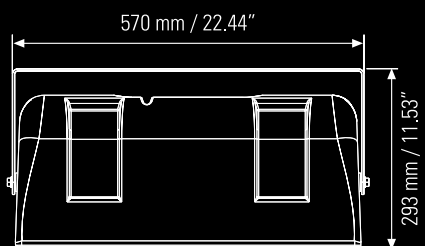
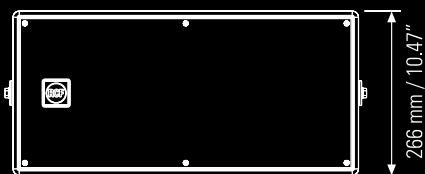
The P 4228 is a weatherproof full range, wide-dispersion, two ways loudspeaker system offering substantial power and efficiency for a variety of professional indoor or outdoor applications.

The highfrequency section is a constant directivity CMD horn loaded with a 1.4" RCF Precision Neodymium compression driver with a 2.5" diaphragm assembly for smooth, wide dispersion.

The low-frequency transducer is a double 8" 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 4 x M 8 brass inserts, a stainless steel U-Bracket. 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.

P 4228 is suitable for indoor and outdoor applications/ installations, it meets the requirements of IP 55 code (International Protection Rating).



130.60.119 AC P28 A-BR
Cluster brackets for P4228 and P5228-L
(including 4 brackets to cluster 2 speakers)

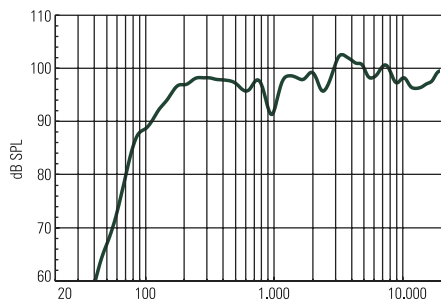


FEATURES

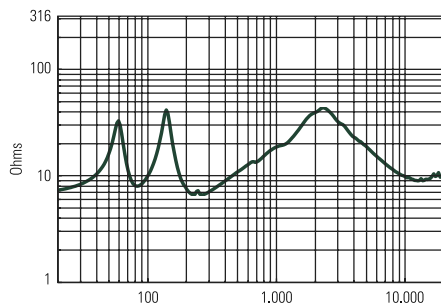
- Weatherproof cabinet IP 55
- Aluminium grill and stainless steel bracket
- Two 8" high-output LF transducer with 2.5" voice coil
- One RCF Precision Neodymium 1.5" Compression Driver with 2.5" voice coil
- 110° x 60° constant directivity horn
- 2° X 15° enclosure sides for array configurations
- Active Mosfet Compression Driver Protection
- LICC (Low Impedance Compensated Crossover) network
- Input connector 4 pole Amphenol IP 67

APPLICATIONS

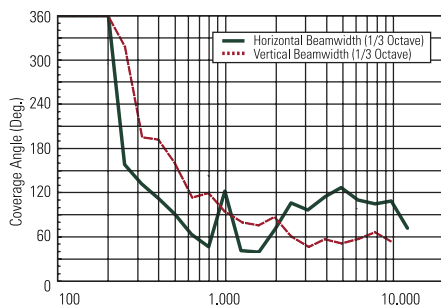
- Outdoor Sound Reinforcement in small and medium spaces
- High-Level AV Playback
- Flown cluster configurations
- Large speech systems
- Music Sound Reinforcement



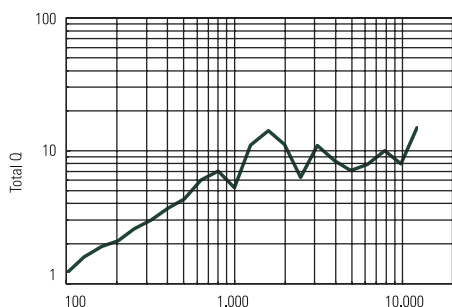
RESPONSE 1W/1m



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, 42124, Reggio Emilia, Italy.- B. Model number: P4228

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 2 x 8" woofer, 2.5" voice coil - HF Sub-section 1.4" neodymium, 2.5" voice coil.

2.03 Acoustical Proprieties

Nominal dispersion angle: Horizontal: 110° - Vertical: 60° - Axial Frequency range: 80Hz-20kHz - Axial Sensitivity: 97 dB, 1W @ 1m - Power handling: Applicable power 400W RMS - Musical power 800W - Peak power 1600W - Nominal Impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 2° Horizontal side angles, 15° Vertical side angle, 8 mm Polyethylene rotomoulded - Rigging insert: 4 x M8 + 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 pole Amphenol - Dimensions: (H x W x D): 22.28" x 10.55" x 16.23" - 566 x 268 x 250 mm - Weight: 29.7 lb - 13.5 Kg.

SYSTEM

FREQ. RANGE (-10 dB):	80 Hz - 20 kHz
FREQ. RANGE (-3 dB):	100 Hz - 20 kHz
HORIZ. COVERAGE ANGLE (-6 dB):	110°
VERTICAL COVERAGE ANGLE (-6 dB):	60°
DIRECTIVITY FACTOR; Q:	9
SYSTEM SENSITIVITY:	97 dB , 1W @ 1m
RATED MAXIMUM SPL:	129 dB, @ 1m
SYSTEM NOMINAL IMPEDANCE:	8 Ohm
SYSTEM INPUT POWER RATING RMS:	400 W
SYSTEM INPUT POWER RATING PEAK:	1600 W
RECOMMENDED AMPLIFIER:	800 W
HF PROTECTION:	Dynamic
CROSSOVER:	1.1 kHz

TRANSDUCERS

LOW FREQUENCY:	2x8" (200 mm) woofer with 2.5" (64 mm) coil
NOMINAL IMPEDANCE:	16 Ohm
INPUT POWER RATING:	300 W AES ; 1200 W Peak
SENSITIVITY:	95 dB, 1W @ 1m

HIGH FREQUENCY: 1.4" (35.5mm) throat, 2.5" (63.7 mm) coil diaphragm assembly

NOMINAL IMPEDANCE:	8 Ohm
INPUT POWER RATING:	90 W AES ; 360 W Peak
SENSITIVITY:	110 dB, 1W @ 1m

PHYSICAL

ENCLOSURE: Trapezoidal, 2° Horizontal side angles, 15° Vertical side angle, 8 mm Polyethylene rotomoulded

RIGGING INSERTS: 4 x M8 + U-Bracket and Pair of spacers

COLOR: Gray

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

INPUT CONNECTORS: 4 pole Amphenol

DIMENSIONS (HxWxD): 22.28" x 10.55" x 9.84" / 566 x 268 x 250 mm

WEIGHT: 29.7 lb - 13.5 Kg

P2110-T

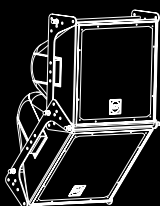
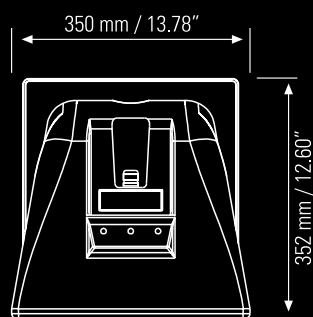
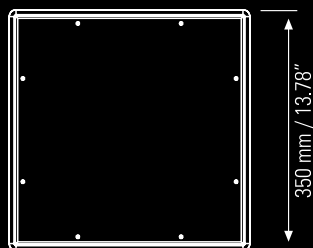
OUTDOOR/INDOOR TWO WAY COAX SPEAKER SYSTEM p/n. 130.00.125

The P2110-T 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. P 2110-T is suitable for indoor and outdoor applications/installations, it meets the requirements of IP 55 code (International Protection Rating).



133.60.095 AC P10A-BR
Cluster brackets for P2110-T (including 4 brackets to cluster 2 speakers)



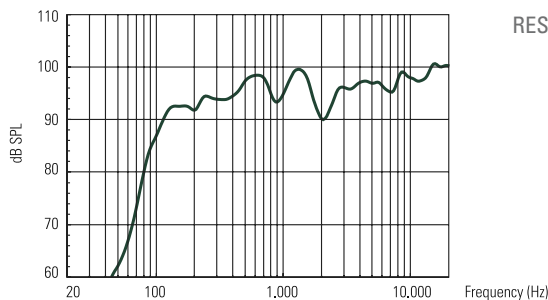
FEATURES

- Weatherproof cabinet IP 55
- 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

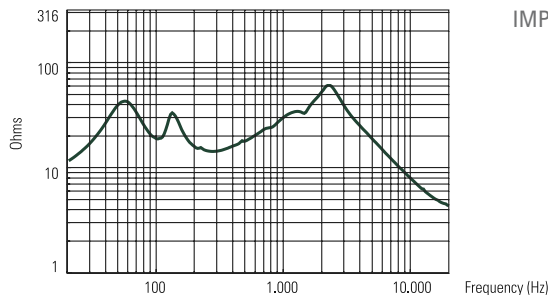
APPLICATIONS

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

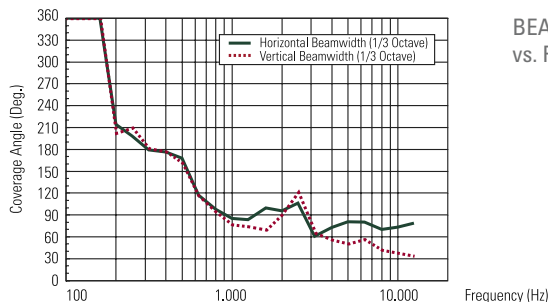




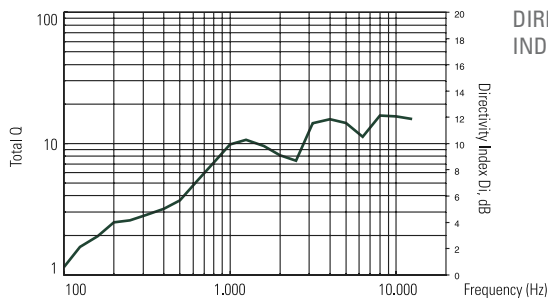
RESPONSE 1W/1m



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, 42124, Reggio Emilia, Italy. B. Model number : P2110-T.

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.

2.05 Accessories

AC P10A-BR Cluster brackets for P2110-T (including 4 brackets to cluster 2 speakers)

SYSTEM

FREQ. RANGE (-10 dB):	95 Hz - 20 kHz
FREQ. RANGE (-3 dB):	120 Hz - 20 kHz
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:	124 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:	70/100 V
SELECTABLE POWER:	70V/30W, 15W; 100V/60W, 30W
HF PROTECTION:	Dynamic
CROSSOVER:	2 kHz

TRANSDUCERS

LOW FREQUENCY:	10" (250 mm) woofer with 2.5" (64 mm) coil
NOMINAL IMPEDANCE:	16 Ohm
INPUT POWER RATING:	180 W AES ; 720 W Peak
SENSITIVITY:	95 dB, 1W @ 1m

HIGH FREQUENCY:	1"(25.4 mm) throat, 1.5" (35.5mm) coil diaphragm assembly
NOMINAL IMPEDANCE:	8 Ohm
INPUT POWER RATING:	25 W AES ; 100 W Peak
SENSITIVITY:	106 dB, 1W @ 1m

PHYSICAL

ENCLOSURE:	Trapezoidal, 10° Horizontal side angles, 20° Vertical side angle, 8 mm Polyethylene rotomoulded
RIGGING INSERTS:	12 x M8 + U-Bracket and Pair of spacers
COLOR:	Gray
GRILLE:	Custom perforated aluminium grille with open-cell fiber and water repellent woven fabric backing
INPUT CONNECTORS:	4 x 1.5mm square, 5m Neoprene cable
DIMENSIONS (HxWxD):	13.78" x 13.78" x 12.60" 350 x 350 x 320 mm
WEIGHT:	29.75 lb - 13.5 Kg

P3108 P1108-T

OUTDOOR/INDOOR TWO WAY SPEAKER SYSTEM

p/n. 130.00.198

OUTDOOR/INDOOR TWO WAY SPEAKER SYSTEM

p/n. 130.00.203

The P 3108 is a weatherproof full range, wide-dispersion, 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 with a 1" RCF Precision Neodymium compression driver with a 1.50" diaphragm assembly for a smooth, wide dispersion.

The low-frequency transducer is a 8" 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 4 x M 8 brass inserts and a stainless steel U-Bracket.

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.

P 3108 is suitable for indoor and outdoor applications/ installations, it meets the requirements of IP 55 code (International Protection Rating).

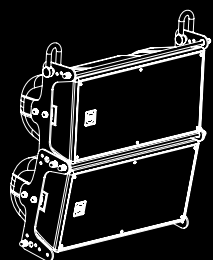
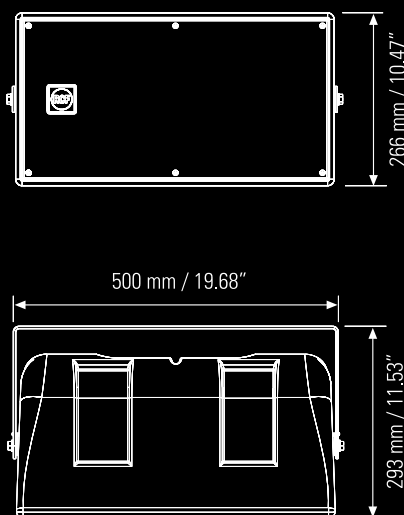
The P1108-T is a weatherproof full range, wide-dispersion, two way loudspeaker system suitable for several indoor or outdoor applications where good speech intelligibility and music reproduction are required.

In a single-piece rotational moulded UV protected polyethylene cabinet the P1108-T combines a 1,5" diaphragm assembly compression driver loaded on a 1" rotatable constant directivity 90°x60°CD horn with a 8" high efficiency low-frequency transducer with a 1.5" voice coil.

The cabinet is equipped with 4 x M 8 brass inserts and a steel U-Bracket. 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.

P1108-T is suitable for indoor and outdoor installations, it meets the requirements of IP 55 code (International Protection Rating).



133.60.118 AC P08 A-BR
Cluster brackets for P3108 and P1108-T
(including 4 brackets to cluster 2 speakers)

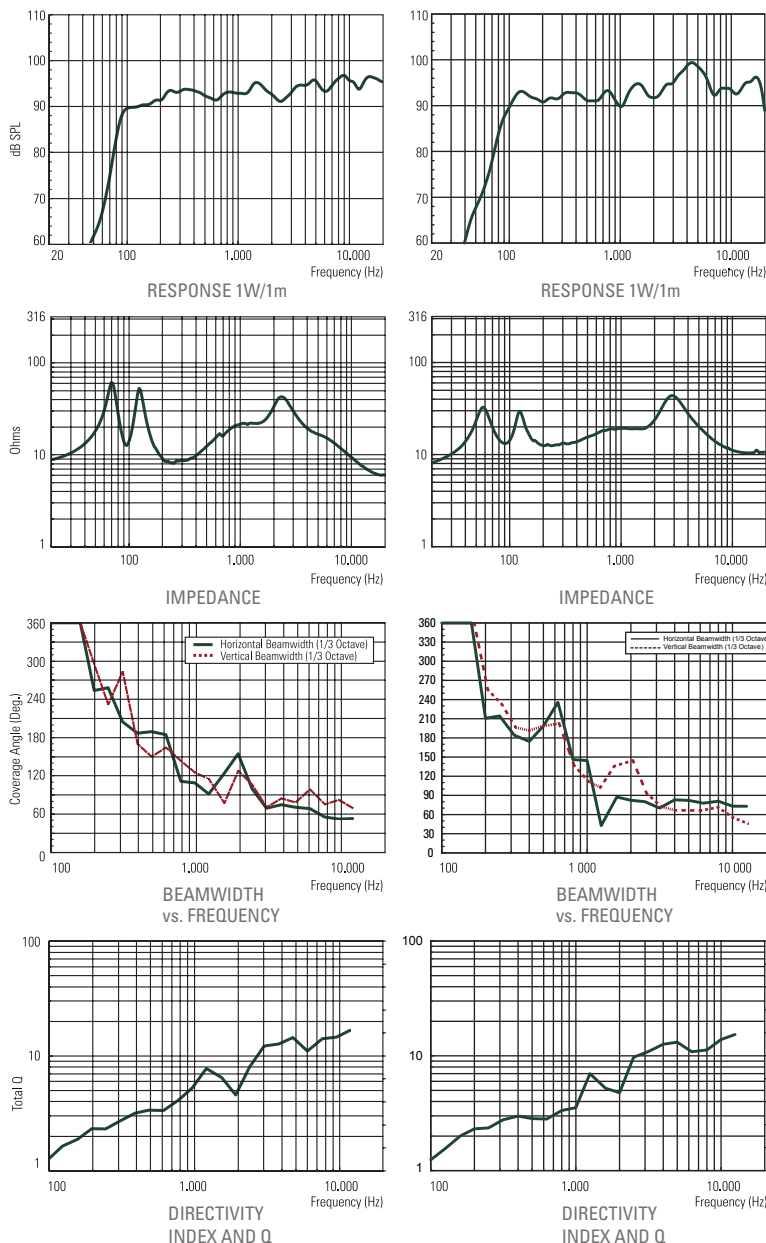
FEATURES

- Weatherproof cabinet IP 55
- Aluminium grill and stainless steel bracket
- One 8" high-output LF transducer with 2.5" voice coil (P3108), 1.5" voice coil (P1108-T)
- One RCF Precision Neodymium 1" Compression Driver with 1.5" voice coil
- 90° x 60° constant directivity horn
- 2° x 15° enclosure sides for cluster configurations
- Active Mosfet Compression Driver Protection
- LICC (Low Impedance Compensated Crossover) network
- 2 metres 4 x 1.5 Input cable (P1108-T)

APPLICATIONS

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

P SERIES



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, 42124 , Reggio Emilia, Italy.- B. Model number: P3108

2.02 Design

Configuration Compact 2 way speaker - LF Sub-section 8" woofer, 2.5" voice coil - HF Sub-section 1" neodymium, 1.5" voice coil.

2.03 Acoustical Proprieties

Nominal dispersion angle: Horizontal: 90° - Vertical: 60° - Axial Frequency range: 80Hz-20kHz - Axial Sensitivity: 94 dB, 1W @ 1m - Power handling: Applicable power 300W RMS - Musical power 600W - Peak power 1200W - Nominal Impedance: 8 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 2° Horizontal side angles, 15° Vertical side angle, 8 mm Polyethylene rotomoulded - Rigging insert: 4 x M8 + 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 pole Amphenol - Dimensions: (H x W x D): 19.41" x 10.47" x 16.23" - 493 x 266 x 250 mm - Weight: 22 lb - 10 Kg.

2.05 Accessories

AC P08 A-BR Cluster brackets for P3108 (including 4 brackets to cluster 2 speakers)

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42124 , Reggio Emilia, Italy - B. Model number: P1108-T

2.02 Design

Configuration Compact 2 way speaker – LF Sub-section 8" woofer, 1.5" voice coil – HF Sub-section 1" neodymium, 1.5" voice coil.

2.03 Acoustical Proprieties

Nominal dispersion angle: Horizontal: 90° - Vertical: 60° - Axial Frequency range: 80 Hz-20kHz - Axial Sensitivity: 95 dB, 1W @ 1m – Power handling: Applicable power 100W RMS – Musical power 200W – Peak power 1200W – Nominal Impedance: 16 Ohm.

2.04 Physical Properties

Enclosure: Trapezoidal, 2° Horizontal side angles, 15° Vertical side angles, 8 mm Polyethylene rotomoulded – Rigging insert: 4 x M8 + 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 1.5 mm square 2 m Neoprene cable – Dimensions: (H x W x D): 10.47" x 19.40" x 9.84" – 266 x 493 x 250 mm – Weight: 27.55 lbs – 12.5 Kg.

SYSTEM	P3108	P1108-T
FREQ. RANGE (-10 dB):	80 Hz - 20 kHz	
FREQ. RANGE (-3 dB):	100 Hz - 20 kHz	110 Hz - 18 kHz
HORIZ. COVERAGE ANGLE (-6 dB):	90°	
VERTICAL COVERAGE ANGLE (-6 dB):	60°	
DIRECTIVITY FACTOR; Q:	11	
SYSTEM SENSITIVITY:	94 dB, 1W @1 m	95 dB, 1W @1 m
RATED MAXIMUM SPL:	125 dB, 1 @1 m	121 dB, 1 @1 m
SYSTEM NOMINAL IMPEDANCE:	8 Ohm	16 Ohm
SYSTEM INPUT POWER RATING RMS:	300 W	100 W
SYSTEM INPUT POWER RATING PEAK:	1200 W	400 W
RECOMMENDED AMPLIFIER:	600 W	200 W
CONSTANT VOLTAGE LINE:	70/100 W	
SELECTABLE POWER:	70V/30W, 15W, 100V/60W, 30W	
HF PROTECTION:	Dynamic	PTC
CROSSOVER:	1.8 kHz	2.2 kHz

TRANSDUCERS

LOW FREQUENCY:	8" (200 mm) woofer with 2.5" (64 mm) coil	8" (203 mm) woofer with 1.5" (38 mm) coil
NOMINAL IMPEDANCE:	8 Ohm	16 Ohm
INPUT POWER RATING AES:	300 W AES	100 W AES
INPUT POWER RATING PEAK:	1200 W	400 W
SENSITIVITY:	95 dB, 1W @1 m	94 dB, 1W @1 m
HIGH FREQUENCY:	1" (25.5 mm) throat, 1.5" (35.4 mm) coil diaphragm assembly	1" (25.4 mm) throat, 1.5" (38 mm) coil diaphragm assembly

NOMINAL IMPEDANCE:	8 Ohm	
INPUT POWER RATING:	25 W AES; 100 W Peak	20 W AES; 80 W Peak
SENSITIVITY:	109 dB, 1W @ 1m	107 dB, 1W @ 1m

PHYSICAL

ENCLOSURE:	Trapezoidal, 2° Horizontal side angles, 15° Vertical side angle, 8 mm Polyethylene rotomoulded	
RIGGING INSERTS:	4 x M8 + U-Bracket and Pair of spacers	
COLOR:	Gray	
GRILLE:	Custom perforated aluminium grille with open-cell fiber and water repellent woven fabric backing	
INPUT CONNECTORS:	4 pole Amphenol	4 x 1.5 mm square 2m Neoprene cable
DIMENSIONS (HxWxD):	19.41" x 10.47" x 16.23" 493 x 266 x 250 mm	10.47" x 19.40" x 9.84" 266 x 493 x 250 mm
WEIGHT:	22 lb; 10 Kg	27.55 lb; 12.5 Kg

P3115-T P6215

OUTDOOR/INDOOR TWO WAY COAX SPEAKER SYSTEM p/n. 130.00.135

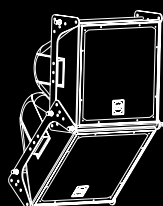
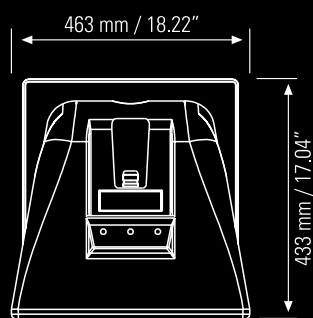
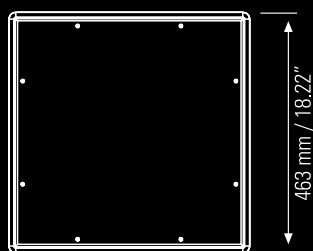
OUTDOOR/INDOOR TWO WAY COAX SPEAKER SYSTEM p/n. 130.00.131

The P3115-T 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-T features a selectable line transformer for 70 - 100 Volt applications.

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 M 10 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. P 3115-T and P6215 are suitable for indoor and outdoor applications/installations, they meet the requirements of IP 55 code (International Protection Rating).



133.60.094 AC P15 A-BR
Cluster brackets for P3115-T, P6215 and P8015-S
(including 4 brackets to cluster 2 speakers)

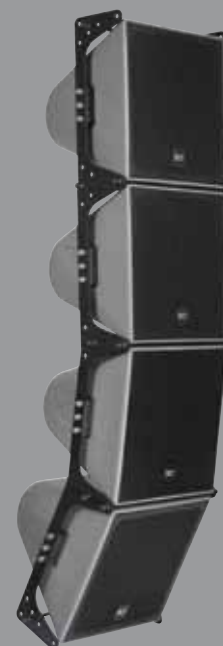


FEATURES

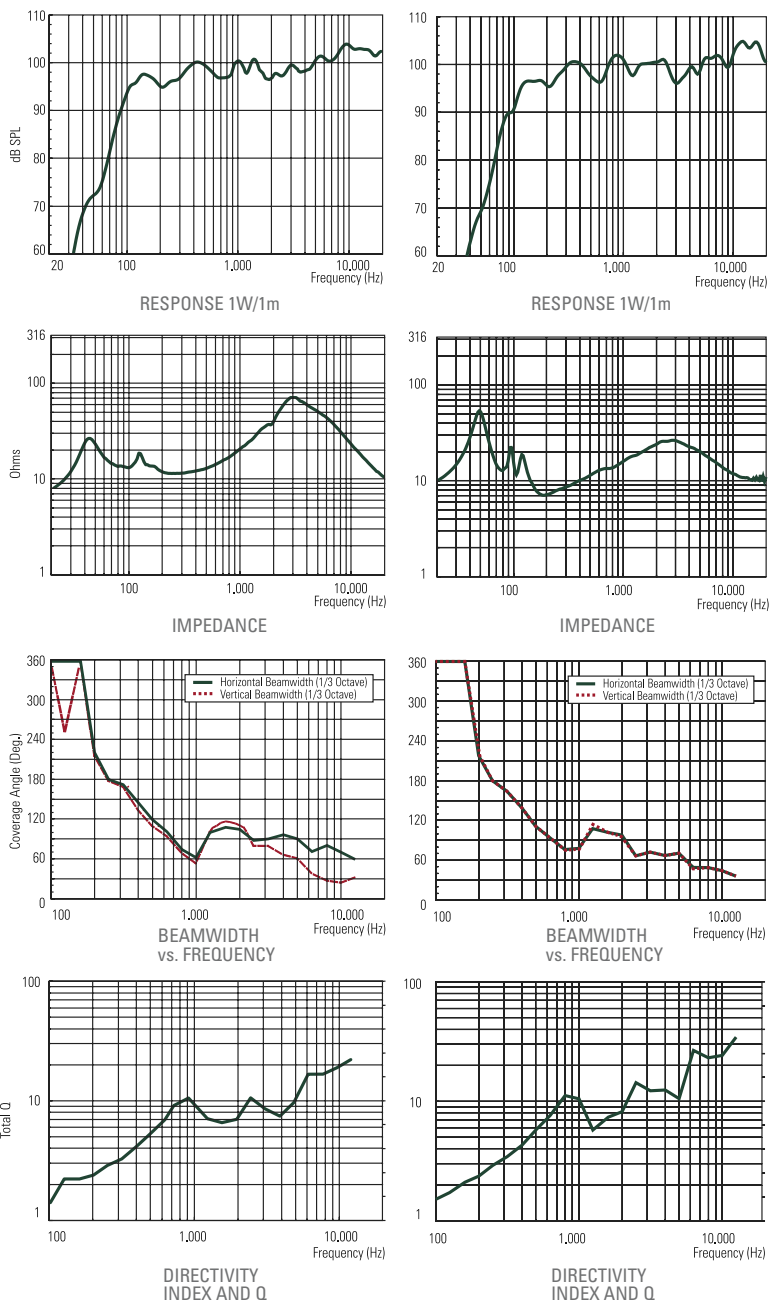
- Weatherproof cabinet IP 55
- Aluminium grill and stainless steel bracket
- One 15" high-output LF transducer with 2" voice coil
- One RCF Precision Neo 1" C. Driver with 1.5" voice coil for P3115-T
- 90° x 60° constant directivity horn for P3115-T
- 10° X 20° enclosure sides for array configurations
- Active Mosfet Compression Driver Protection
- P3115-T model is equipped with a selectable 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



P SERIES



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, 42124, Reggio Emilia, Italy.
B. Model number : P3115-T.

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 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: 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.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product
A. RCF, Via Raffaello 13, 42124, 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.

SYSTEM	P3115-T	P6215
FREQ. RANGE (-10 dB):	75 Hz - 20 kHz	
FREQ. RANGE (-3 dB):	100 Hz - 20 kHz	120 Hz - 20 kHz
HORIZ. COVERAGE ANGLE (-6 dB):	90°	60°
VERTICAL COVERAGE ANGLE (-6 dB):	60°	
DIRECTIVITY FACTOR; Q:	13.3	12.8
SYSTEM SENSITIVITY 1W @ 1m:	98 dB	100 dB
RATED MAXIMUM SPL 1W @ 1m:	129 dB	134 dB
SYSTEM NOMINAL IMPEDANCE:	16 Ohm	8 Ohm
SYSTEM INPUT POWER RATING RMS:	300 W	600 W
SYSTEM INPUT POWER RATING PEAK:	1200 W	2400 W
CONSTANT VOLTAGE LINE:	70/100 V	-
SELECTABLE POWER:	70V/60, 30W; 100V/120, 60W	-
HF PROTECTION:	Dynamic	
CROSSOVER:	1.3 kHz	1.1 kHz

TRANSDUCERS

LOW FREQUENCY:	15" (380 mm) woofer with 2.5" (64 mm) coil	15" (380 mm) woofer with 3" (75 mm) coil
NOMINAL IMPEDANCE:	16 Ohm	8 Ohm
INPUT POWER RATING AES:	250 W	450 W
INPUT POWER RATING Peak:	500 W	900 W
SENSITIVITY dB 1W @ 1m:	98	101
HIGH FREQUENCY:	1" (25.4 mm) throat, 1.5" (35.5 mm) coil	1.3" (33 mm) throat 2.5" (64 mm) coil

NOMINAL IMPEDANCE:	8 Ohm	
INPUT POWER RATING:	25 W AES ; 100 W Peak	90 W AES; 180 W Peak
SENSITIVITY:	108 dB, 1W @ 1m	

PHYSICAL

ENCLOSURE:	Trapezoidal, 10° Horizontal side angles, 20° Vertical side angle, 8 mm Polyethylene rotomoulded	
RIGGING INSERTS:	12 x M10 + U-Bracket and Pair of spacers	
COLOR:	Gray	
GRILLE:	Custom perforated aluminium grille with open-cell fiber and water repellent woven fabric backing	
INPUT CONNECTORS:	4 x 1.5mm square 5m Neoprene cable	2 x 2.5mm square 5m Neoprene cable
DIMENSIONS (HxWxD):	18.22" x 18.22" x 17.04" 463 x 463 x 433 mm	
WEIGHT:	42.76 lb; 19.4 Kg	42.32 lb; 19.2 Kg

P8015-S

OUTDOOR/INDOOR SUBWOOFER

p/n. 130.00.230

P 8015-S is a weatherproof bass reflex subwoofer equipped with a 15" low frequency neodymium transducer with 4" voice coil offering enough power and efficiency for a variety of professional outdoor or indoor applications.

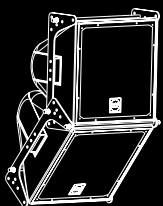
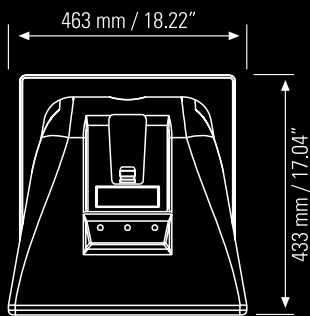
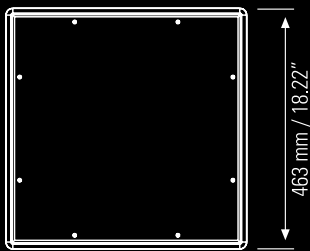
The P8015-S has been specifically designed to reinforce sub bass frequencies in P Series speakers array systems.

The cabinet is a single piece rotational moulded in medium density polyethylene, fully UV protected.

The cabinet is equipped with 12 x M 10 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 P8015-S is suitable for indoor and outdoor applications/ installations, they meet the requirements of IP 55 code (International Protection Rating).



133.60.094 AC P15 A-BR
Cluster brackets for P3115-T, P6215 and P8015-S
(including 4 brackets to cluster 2 speakers)

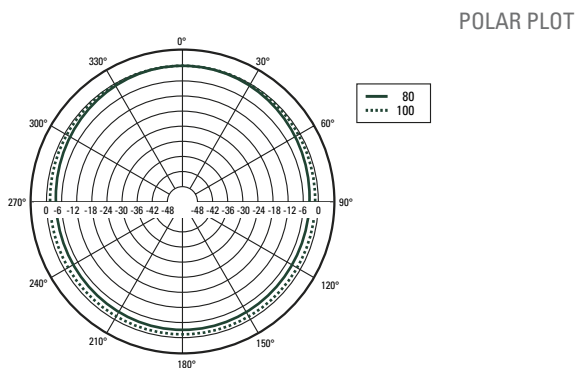
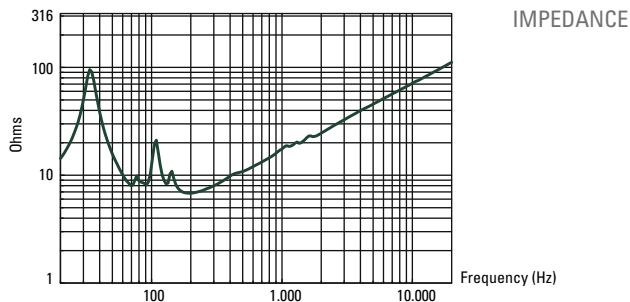
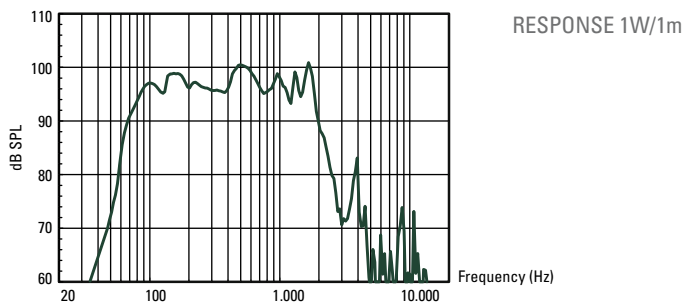


FEATURES

- Weatherproof cabinet IP 55
- Aluminium grill and stainless steel bracket
- Arrayable bass-reflex compact subwoofer
- 132 dB max SPL, 800 Watt AES
- 15" high power neodymium woofer with 4" voice coil

APPLICATIONS

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



SYSTEM

FREQ. RANGE (-10 dB):	50 Hz - 200 Hz
SYSTEM SENSITIVITY:	97 dB , 1W @ 1m
RATED MAXIMUM SPL:	132 dB , @ 1m
SYSTEM NOMINAL IMPEDANCE:	8 Ohm
SYSTEM INPUT POWER RATING RMS:	800 W
SYSTEM INPUT POWER RATING PEAK:	3200 W
RECOMMENDED AMPLIFIER:	1600 W

TRANSDUCERS

LOW FREQUENCY:	15" (380 mm) with 4" (100 mm) in/out voice coil
NOMINAL IMPEDANCE:	8 Ohm
PROGRAM POWER:	1800 W
POWER HANDLING CAPACITY:	900 W
SENSITIVITY:	97 dB, 1W @ 1m

PHYSICAL

ENCLOSURE:	Trapezoidal, 10 Horizontal° side angles, 20° Vertical side angle, 8 mm Polyethylene rotomoulded
RIGGING INSERTS:	12 x M10 + U-Bracket and Pair of spacers
COLOR:	Gray
GRILLE:	Custom perforated aluminium grille with open-cell fiber and water repellent woven fabric backing
INPUT CONNECTORS:	2x 2.5 mm square 5 m Neoprene cable
DIMENSIONS (H x W x D):	18.22" x 18.22" x 17.04" 463 x 463 x 433 mm
WEIGHT:	40.33 lbs – 18.3 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, 42124 , Reggio Emilia, Italy.
B. Model number : P8015-S

2.02 Design

Bass-Reflex Subwoofer – 15" woofer , 4" voice coil

2.03 Acoustical Properties

Frequency range: 50Hz – 200Hz – Sensitivity: 97 dB, 1W @ 1m – Power handling: 800 W RMS – Musical power: 1600W – Peak power: 3200W – Nominal impedance: 8 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: 3 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: 40.33 lbs – 18,2 Kg.

L2406-T

THREE WAY COLUMN SPEAKER SYSTEM

p/n. 130.00.169 - 130.00.177 (white)

The L 2406-T is a full range high intelligibility compact 3 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

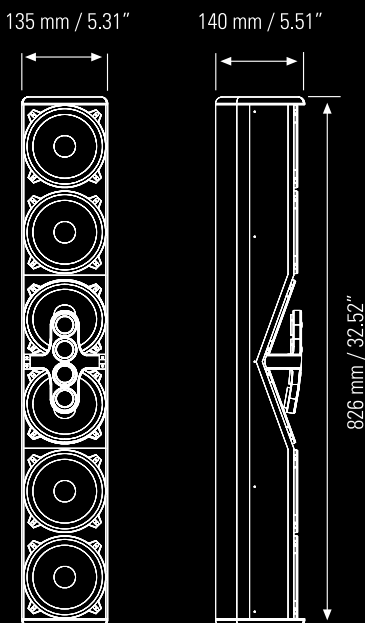
It is equipped with six 5" woofers and four 1" dome tweeter. Its design with central tweeters mounted in front of the two central woofers permits coherent sound dispersion minimizing lobing and keeping the design very compact for a unit of its professional features. The two central woofers behind the tweeters are controlled differently from the other four low frequency transducers, providing a true cardioid column operation and improving the directivity.

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-T 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.



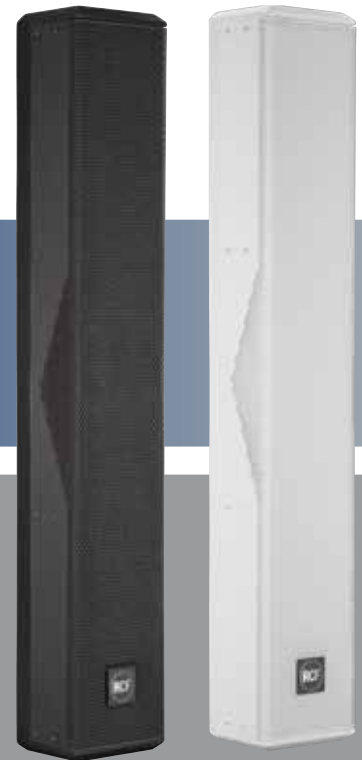
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ALSO IN WHITE

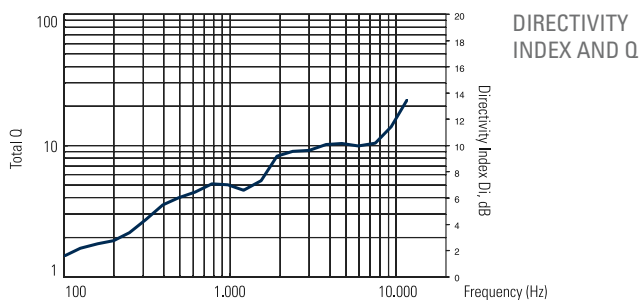
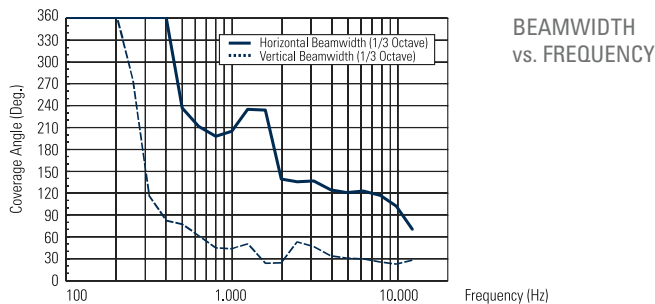
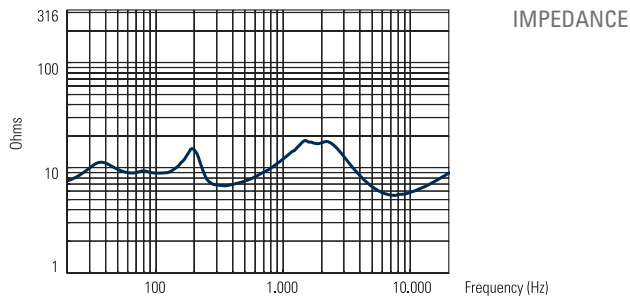
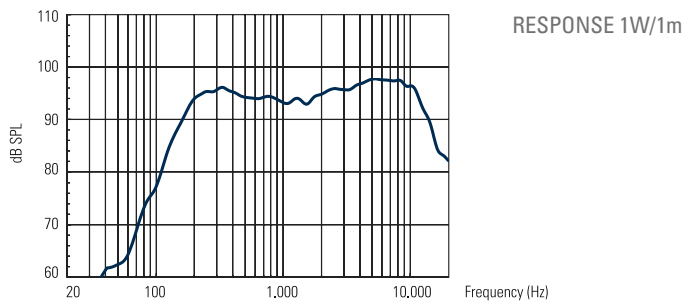
FEATURES

- 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





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, 42124, Reggio Emilia, Italy.- B. Model number: L2406-T

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 Proprieties

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
RATED MAXIMUM SPL:	126 dB, @ 1m
SYSTEM NOMINAL IMPEDANCE:	8 Ohm
SELECTABLE POWER 100V:	10 - 15 - 30 - 60 W
SYSTEM INPUT POWER RATING RMS:	200 W
SYSTEM INPUT POWER RATING PEAK:	800 W
RECOMMENDED AMPLIFIER:	400 W
HF PROTECTION:	Dynamic
CROSSOVER:	2,0 kHz

TRANSDUCERS

LOW/MID 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) coil diaphragm assembly
NOMINAL IMPEDANCE:	8 Ohm
INPUT POWER RATING:	10 W AES ; 20 W Peak
SENSITIVITY:	90 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.

MULTIPURPOSE TWO WAY SPEAKER SYSTEMS

During the last fifteen years RCF transitioned into the fore front of passive and active loudspeaker technology, from the introduction of the original ART series to many prominent speaker systems conceived and designed in our laboratories. We have over the years grown to understand the best ways to use the extra degree of freedom that an injection moulded cabinet offers and in interpreting how such a cabinet and transducers interact each other. The ARTi passive speakers have been designed for live sound reinforcement as well as distributed sound systems for clubs and music venues. All models are equipped with extremely high quality RCF Precision compression drivers and high power woofers to offer unparalleled performance in both fixed installation and live situations.



SPECIFICATIONS	ART 310i	ART 312i	ART 325i
TYPE	Two way passive speaker	Two way passive speaker	Two way passive speaker
FREQUENCY RESPONSE	50 ÷ 20.000 Hz (± 3 dB)	45 ÷ 20.000 Hz (± 3 dB)	45 ÷ 20.000 Hz (± 3 dB)
POWER NOM.	300 W	300 W	400 W
COVERAG ANGLE	90° (HORIZ.); 70° (VERT.) @ (1 KHz)	90° (HORIZ.); 60° (VERT.) @ (1 KHz)	90° (HORIZ.); 60° (VERT.) @ (1 kHz)
SENSITIVITY / MAX SPL	98 dB / 127 dB (1 m / POWER MAX)	98 dB / 127 dB (1 m / POWER MAX)	99 dB / 129 dB (1 m / POWER MAX)
CONNECTORS	2 NL4 SPEAKON®	2 NL4 SPEAKON®	2 NL 4 SPEAKON
INPUT	8 Ω	8 Ω	8 Ω
DIMENSIONS (H X W X D)	537 x 337 x 315 mm	680 x 407 x 347 mm	680 x 408 x 347 mm
WEIGHT	10.000 g	16.000 g	20.000 g

ART 310-i

p/n 130.00.078

10" TWO WAY SPEAKER



- 2 way professional speaker for small concerts, events, stage monitoring, commercial installations
- 10" high power woofer, 64 mm in/out aluminium coil
- 1" neodymium, high frequency driver
- LICC™ low impedance compensated crossover, electronic driver protection
- Sturdy polypropylene cabinet
- 2 x NL4 Speakon® connector
- 1 comfortable top handle for easy transportation and positioning
- Two M10 fly points and built in pole mount adaptor
- Anthracite grey RAL 7016

AC ART 310 H-BR

p/n 133.60.042

HORIZONTAL BRACKET FOR WALL MOUNT

- Horizontal bracket for 10" size Art Speaker models



ART 312-i v

12" TWO WAY SPEAKER



- 2 way professional speaker for small concerts, events, stage monitoring, commercial installations
- 12" high power woofer, 64 mm edge wound aluminium coil
- 1" neodymium, titanium dome, high frequency driver
- LICC™ low impedance compensated crossover, electronic driver protection
- Sturdy polypropylene cabinet
- 2 x NL4 Speakon® connector
- 2 side handles and 1 comfort designed top handle for easy transportation and positioning
- Four M10 fly points and built in pole mount adaptor
- Anthracite grey RAL 7016

ART 325-i p/n 130.00.026

15" TWO WAY SPEAKER



- 2 way professional speaker for small concerts, events, stage monitoring, commercial installations
- 15" high power woofer, 75mm inside/outside aluminium coil
- 2" neodymium, titanium dome RCF Precision Series high frequency driver
- LICC™ low impedance compensated crossover, electronic driver protection
- 2 side handles and 1 ergonomic top handle for easy transportation and positioning
- Four M10 fly points and pole mount adaptor.
- Anthracite grey RAL 7016

ART V-BR p/n 133.60.010

WALL MOUNT VERTICAL BRACKET

- Vertical bracket for Art 312-i, Art 325-i



ART H-BR p/n 133.60.011

WALL MOUNT HORIZONTAL BRACKET

- Horizontal bracket for Art 312-i, Art 325-i



AC S260

p/n 133.60.035

SPEAKERS STEEL FLOOR STAND

- Speaker steel 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 60kg
- Weight 7.8 Kg
- H MIN/MAX 170cm/240cm
- Max base opening 130cm diameter
- Length once folded 123cm

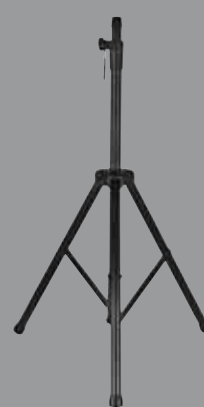


AC S140

p/n 133.60.036

SPEAKERS ALUMINIUM FLOOR STAND

- Speaker aluminium floor stand with folding base and telescopic rod,
- Tube diameter 35mm.
- Equipped with damping system and safety plug
- Load capacity up to 40kg
- Weight 2.7 Kg
- H MIN/MAX 140cm/214cm
- Max base opening 130cm diameter
- Length once folded 107cm



HIGH QUALITY COMPACT SPEAKER SYSTEMS

RCF Monitor Series is a range of speakers designed to deliver uncompromised audio performance and rugged reliability in fixed installations. All Monitor models have been designed to blend with any décor and deliver deep bass, smooth midrange and finely-detailed high frequency response. Quality components and careful acoustic design make the Monitor Series the perfect speakers for critical listening in the most demanding applications. Perfect for speech and music applications in business, audio visual applications, bars & restaurants, hospitality, places of worship, recreational facilities, theme parks and shopping malls. There are four different models in the Monitor Series, each designed for a specific range of applications. A mounting facility is provided with each box, a range of optional mounting accessories increases the installation flexibility. Technically superior materials, like carbon fibre woofer cones and titanium metalized dome tweeters along with our exclusive LICC (Low Inductance Compensated Crossover) design combine to deliver exceptional performance and long-term reliability.

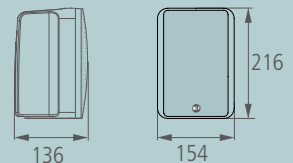


SPECIFICATIONS	MR 33T	MR 44T	MR 55	MR 88
TYPE	Compact two-way	Compact two-way	Compact two-way	Compact two-way
FREQUENCY RESPONSE	100 ÷ 20.000 Hz	60 ÷ 23.000 Hz	55 ÷ 23.000 Hz	50 ÷ 21.000 Hz
POWER NOM. / MAX.	40 W IEC	60 W IEC	175 W IEC	300 W IEC
COVERAG ANGLE	110° (Horiz) 100° (Ver)	110° (Horiz) 100° (Ver)	110° (Horiz) 100° (Ver)	110° (Horiz) 80° (Ver)
SENSITIVITY / MAX SPL	88 dB / 105 dB	89 dB / 108 dB	87 dB / 112 dB	91 dB / 120 dB
POWER	20 - 10 - 5 - 2.5 - 1 W (100 V)	40 - 30 - 20 - 10 - 5 W (100 V)	175 W (IEC268-1)	300 W (IEC268-1)
INPUT	100 V, 70 V, 50 V, 25 V	100 V, 70 V, 50 V, 25 V	4 Ω	8 Ω
DIMENSIONS (H X W X D)	216x154x136 mm	270x187x172 mm	270x187x172 mm	430x290x260 mm
WEIGHT	2.200 g	3.600 g	3.900 g	9.800 g

MR 33T MR 33WT

TWO-WAY COMPACT MONITOR SPEAKER
WITH LINE TRANSFORMER

- MR 33T Black p/n 00.07.140
- MR 33WT White p/n 00.07.141



- Ideal for high quality paging and music reproduction
- Low impedance (4Ω - 40W) or 100V operating mode
- Two-way system, woofer with carbon fiber cone, 0.5" tweeter in Mylar on constant directivity horn
- Built-in low inductance passive crossover, bass reflex @150Hz
- Orientable mounting accessory included
- Body in self-extinguishing composite material, UV resistant
- MONITOR 33T: Colour RAL 9005 black
- MONITOR 33WT: Colour RAL 9003 White

MR 44T MR 44WT

TWO-WAY MONITOR SPEAKER
WITH LINE TRANSFORMER

- MR 44T Black p/n 00.07.142
- MR 44WT White p/n 00.07.354



MR 55 MR 55W

TWO-WAY HIGH DEFINITION
MONITOR SPEAKER

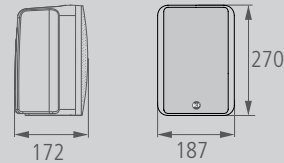
- MR 55 Black p/n 00.07.143
- MR 55 White p/n 00.07.355



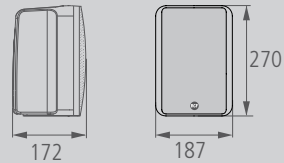
MR 88 MR 88W

TWO-WAY HIGH-POWER MONITOR SPEAKER

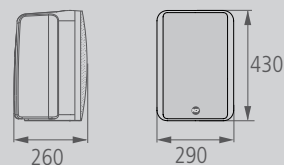
- MR 88 Black p/n 130.00.021
- MR 88 White p/n 130.00.022



- Ideal for high quality paging and music reproduction
- Low impedance (4Ω - 60W) or 100V operating mode
- Transducers LF 5" - HF 0.5" constant directivity tweeter
- Built-in low inductance passive crossover with high frequency dynamic protection, bass reflex @65Hz
- Body in self-extinguishing plastic
- Includes hinged support for installation
- MR 44T Colour: black
- MR 44WT Colour: White



- Ideal for high quality paging and music reproduction
- Transducers LF 5" - HF 0.75" constant directivity tweeter
- Built-in low inductance passive crossover with high frequency dynamic protection, bass reflex @65Hz
- Body in self-extinguishing plastic
- Includes hinged support for installation



- High quality music reproduction
- Transducers LF 8" - HF 1" constant directivity tweeter
- Built-in low inductance passive crossover with high frequency dynamic protection, bass reflex @65Hz

MA 3B - MA 3W WALL MOUNT BRACKET

Bracket for mounting one MR 33T speaker on the wall

- MA 3B Black p/n 00.08.056
- MA 3W White p/n 00.08.057

MA 4X CEILING MOUNT BRACKET

Bracket for installing four Monitor MR 33T - MR 44T - MR 55 speakers on the ceiling in cluster configuration

p/n 133.60.009

MA 5B - MA 5W WALL MOUNT BRACKET

Bracket for mounting one Monitor 44T or 55 series speaker on the wall

- MA 5B Black p/n 00.08.058
- MA 5W White p/n 00.08.059

MA 8-2 WALL MOUNT SUPPORT

Support with ball joint for mounting one Monitor 88 speaker on the wall

p/n 133.20.054

ARCHITECTURAL SPEAKER SOLUTIONS

The Monitor Q Series is an additional family to add to the outstanding versatility of the RCF Monitor range of speakers that offers modern industrial design along with impeccable acoustic engineering in order to provide the Sound Contractor with an additional choice of fashion orientated compact installation speaker systems.

RCF Engineers have worked to create a true combination of design and acoustics with 'installation friendly' mounting and fixing systems to please both the Sound Contractor, architect and end customer. Available in different colours, all models can be easily re-painted to match any décor. A complete line of mounting accessories is also available to assist the contractor.



SPECIFICATIONS	MQ 30P	MQ80P	MQ50	MQ60H
TYPE	Compact two-way	Compact two-way	Compact two-way	Compact two-way
FREQUENCY RESPONSE	150 ÷ 20.000 Hz	100 ÷ 20.000 Hz	70 ÷ 20.000 Hz	100 ÷ 19.000 Hz
POWER NOM. / MAX.	12 W RMS / 24 W	60 W RMS / 120 W	60 W RMS / 120 W	60 W RMS / 120 W
COVERAG ANGLE	120°	90° (Horiz) 60° (Ver)	120° (Horiz) 90° (Ver)	180° (Horiz) 120° (Ver)
SENSITIVITY / MAX SPL	102 dB	115 dB	110dB	109 dB
INPUT	100 V, 70 V	100 V, 70 V	100 V, 70 V	100 V, 70 V
DIMENSIONS (H X W X D)	104x100x186 mm	223x191x319 mm	245x165x175 mm	297x198x122 mm
WEIGHT	1.100 g	3.000 g	3.000 g	3.000 g



SPECIFICATIONS	MQ 50C	MQ 50i	MQ 100L	MQ 90S
TYPE	Ceiling two-way	Compact two-way	Column 3 way	Subwoofer
FREQUENCY RESPONSE	100 V, 70 V	180 ÷ 20.000 Hz	70 ÷ 20.000 Hz	70 ÷ 220 Hz
POWER RMS / PK	60 W RMS / 120 W	60 W RMS / 120 W	60 W RMS / 120 W	60 W RMS / 120 W
COVERAG ANGLE	120°	120° (Horiz) 100° (Ver)	90° (Horiz) 70° (Ver)	-
SENSITIVITY / MAX SPL	112 dB	108 dB	120 dB	107 dB
INPUT	100 V, 70 V	100 V, 70 V	100 V, 70 V	100 V, 70 V
DIMENSIONS (H X W X D)	266 Ø	268x195x88	500x120x150	300x205x400
WEIGHT	2.150 g	3.000 g	2.800 g	8.000 g

MQ 30P

MINIATURE TWO-WAY COAXIAL
SPEAKER

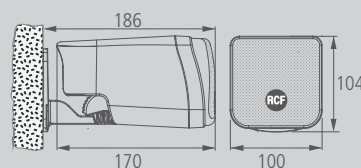
- MQ 30P-W White p/n 130.00.058
- MQ 30P-B Black p/n 130.00.068
- MQ 30P-S Silver p/n 130.00.067



- Orientable mini-speaker for high quality reproduction
- Two way coaxial speaker: LF 3.5" - tweeter 0.75" dome
- Power/RMS: 24/12 W Bypass
- Constant voltage: 70.7 - 100 V
- Impedance: [Bypass] 16 Ω
- Crossover frequencies: 5400 Hz, 6/6 dB/oct
- Built-in High-Pass filter at 150 Hz for integration with a subwoofer
- Cabinet: Hi-density polystyrene HB grade
- Connectors: Euroblock, removable for easy installation

SPECIFICATIONS

SPECIFICATIONS	MQ 30P
POWER	12 - 6 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	150 ÷ 20.000 Hz (\pm 3 dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAXIMUM SOUND PRESSURE	102 dB (1 m / POWER MAX)
ANGLE OF COVERAGE	120°



MQ 80P

TWO-WAY INDOOR / OUTDOOR
MONITOR

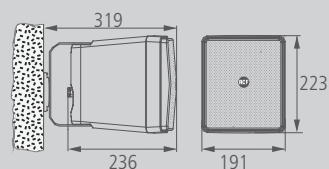
- MQ 80P-W White p/n 130.00.096
- MQ 80P-B Black p/n 130.00.094
- MQ 80P-S Silver p/n 130.00.095



- Speaker: woofer 5" horn-loaded, 1" horn-loaded compression driver with phase-plug loaded on CD horn
- Power/RMS: 120/60 W Bypass
- Impedance: [Bypass] 8 Ω
- [70.7V]: 15W - 10W - 5W - 2.5W
- Tuning frequency: 100 Hz
- Crossover frequency: 3000 Hz Crossover: Notch/6 dB/oct
- Cabinet: self-extinguishing high-density polystyrene, UV stabilized
- IP 55, suitable for outdoor use
- Suitable for cluster installation (2x, 3x) for a wide and uniform coverage

SPECIFICATIONS

SPECIFICATIONS	MQ 80P
POWER	30 - 20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	100 ÷ 20.000 Hz (\pm 3 dB)
SENSITIVITY (1 m / 1 W)	94 dB
MAXIMUM SOUND PRESSURE	115 dB (1 m / POWER MAX)
ANGLE OF COVERAGE	90° (HORIZ.); 60° (VERT.)



MQ 50

TWO-WAY MONITOR

- MQ 50-W White p/n 130.00.056
- MQ 50-B Black p/n 130.00.070
- MQ 50-S Silver p/n 130.00.069

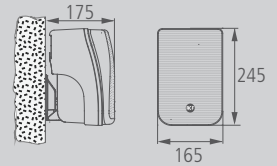


- Two way Bass reflex speaker for music reproduction
- Speaker: woofer 5" - tweeter 0.75" dome
- Power/RMS: 120/60 W Bypass
- Impedance: [Bypass] 16 Ω
- Line transformer [100V]: 30W - 20W - 10W - 5W
[70V]: 15W - 10W - 5W - 2.5W
- Crossover frequencies: 4500 Hz, 12/12 dB/oct
- Protection: Dynamic on woofer and tweeter
- Cabinet: Hi-density polystyrene HB grade
- Connectors: Euroblock, removable for easy installation

SPECIFICATIONS

MQ 50

POWER	30 - 20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	70 ÷ 20.000 Hz (± 3 dB)
SENSITIVITY (1 m / 1 W)	89 dB
MAXIMUM SOUND PRESSURE	110 dB (1 m / POWER MAX)
ANGLE OF COVERAGE	120° (HORIZ.); 90° (VERT.)



MQ 60H

WIDE DISPERSION CONSTANT DIRECTIVITY MONITOR

- MQ 60H-W White p/n 130.00.060
- MQ 60H-B Black p/n 130.00.072
- MQ 60H-S Silver p/n 130.00.071

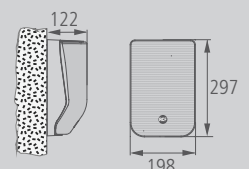


- Two way Bass reflex speaker for music reproduction
- Speaker: woofer 5" - tweeter 2 x 1" dome
- Power/RMS: 120/60 W Bypass
- Impedance: [Bypass] 16 Ω
- Line transformer [100V]: 30W - 20W - 10W - 5W
[70V]: 15W - 10W - 5W - 2.5W
- Crossover frequencies: 2600 Hz. Crossover: 12/12 dB/oct
- Protection: Dynamic on woofer and tweeter
- Cabinet: Hi-density polystyrene HB grade
- Connectors: Euroblock, removable for easy installation
- MQ 60H Link accessory to support 2 MQ 60H to form an Omni directional speaker array available (Pag. 55)

SPECIFICATIONS

MQ 60H

POWER	30 - 20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	100 ÷ 19.000 Hz (± 3 dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAXIMUM SOUND PRESSURE	109 dB (1 m / POWER MAX)
ANGLE OF COVERAGE	180° (HORIZ.); 120° (VERT.)



MQ 50C

TWO-WAY CEILING MONITOR
SPEAKER

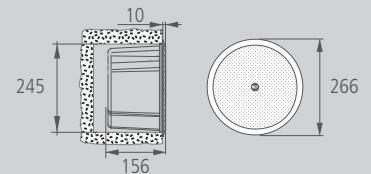
- MQ 50C-W White p/n 130.00.081
- MQ 50C-S Silver p/n 130.00.087



- Two way bass reflex ceiling speaker for music reproduction
- Speaker: woofer 5" neodymium magnet, tweeter 1" dome neodymium magnet
- Power/RMS: 120/60W Bypass
- Impedance: [Bypass] 16 Ω
- Line transformer [100V]: 30W - 20W - 10W - 5W
[70V]: 15W - 10W - 5W - 2.5W
- Crossover frequencies: 3000 Hz, 12/12 dB/oct - High pass filter at 150 Hz
- Angle of coverage: 120° horizontal x 120° vertical
- Cabinet: Plastic material self-extinguishing, Tuned Alu-dome
- Connectors: Euroblock, removable for easy installation

SPECIFICATIONS

SPECIFICATIONS	MQ 50C
POWER	30 - 20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	70 ÷ 20.000 Hz (± 3 dB)
SENSITIVITY (1 m / 1 W)	92 dB
MAXIMUM SOUND PRESSURE	112 dB (1 m / POWER MAX)
ANGLE OF COVERAGE	120°



MQ 50i

TWO-WAY IN WALL SPEAKER

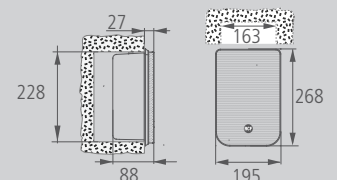
- MQ 50i-W White p/n 130.00.139
- MQ 50i-S Silver p/n 130.00.140



- In-wall speaker system for music reproduction
- Two way bass reflex construction for flush mount
- Speaker: woofer 5" neodymium magnet, 0.75" dome tweeter
- Power: max. 60W (bypass)
- Impedance: [Bypass] 16 Ω
- Line transformer [100V]: 30W - 20W - 10W - 5W
[70V]: 15W - 10W - 5W - 2.5W
- Crossover frequency: 3000 Hz, 12/12 dB/oct
- Cabinet: Plastic material self-extinguishing, Tuned Alu-dome
- Connectors: Euroblock
- Suitable for standard Multibox enclosure, 2 modules

SPECIFICATIONS

SPECIFICATIONS	MQ 50i
POWER	30 - 20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	180 ÷ 20.000 Hz (± 3 dB)
SENSITIVITY (1 m / 1 W)	90 dB
MAXIMUM SOUND PRESSURE	108 dB (1 m / POWER MAX)
ANGLE OF COVERAGE	120° (HORIZ.); 100° (VERT.)

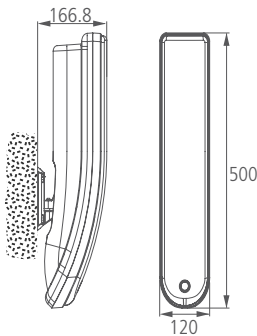


MQ 100L

THREE WAY COLUMN LOUDSPEAKER

□ MQ 100L White p/n 130.00.187

■ MQ 100L Black p/n 130.00.186



- 3 way column array speaker system providing natural high intelligibility hi-fidelity sound for both speech and music, suitable for applications where the environment is acoustically critical or where architectural constraints require compact elements.
- The wide horizontal coverage angle (180°) and the 60° asymmetrical vertical dispersion allow the correct sound reproduction in a wide space, limit the downward tilting and helps reducing feedbacks and improving the sound directivity (important in halls having a long reverberation time).
- MQ 100L is equipped with: 2 rubber surround 3.5" woofers, 2 fabric surround 3.5" mid-woofers, 2 cloth coated 0.75" dome tweeters.
- Mounting accessories are included. These have been studied to keep the column as close as possible to the wall and simplify its installation.
- Even if the pre-oriented vertical acoustic axis allows to cover already the majority of the installations without requiring additional tilting, the MQ 100L is provided with accessories to physically orient the speaker down of extra 5° and 10°. Also on the horizontal plan the MQ 100L can be freely rotated for plus/minus several degrees.
- It includes a line transformer inside for the connection to (100 – 70 V) constant voltage lines, yet it can also be set to 16 Ω (low impedance connection).
- The power / mode selection is made by means of the rear panel rotary switch.
- Loudspeaker RMS power is:
40 – 20 – 10 – 5 W (selectable), if connected to a 100 V constant voltage line;
20 – 10 – 5 – 2.5 W (selectable), if connected to a 70 V constant voltage line;
Max. 60 W on low impedance (16 Ω).
- Its body is made of self-extinguishing (HB level) high density polystyrene.
- Available in 2 colours: Black MQ 100L, White MQ 100L –W.

SPECIFICATIONS

MQ 100L

SELECTABLE POWER	120 - 60 W (100 V)
CONSTANT VOLTAGE LINE	100 V, 70 V
FREQUENCY RANGE	70 ÷ 20.000 Hz
SENSITIVITY (1 m / 1 W)	94 dB
MAXIMUM SOUND PRESSURE	120 dB (1 m / MAX POWER)
ANGLE OF COVERAGE	90° (H) - 70° (V)

MQ 90S

8" BAND PASS SUBWOOFER

□ MQ 90S-W White p/n 130.00.098

■ MQ 90S-B Black p/n 130.00.097



- SubWoofer 8", especially designed to be used with MonitorQ series speakers
- Well suitable also for other RCF speakers such as PL40, PL6X, DU 100X, DP 2X
- Power/RMS: 160/80W Bypass
- Impedance: [Bypass] 16 Ω
- Line transformer [100V]: 60W - 30W - 15W - 7.5W
[70.7V]: 30W - 15W - 5W - 7.5W
- Crossover frequency: 200 Hz, 12 dB/oct
- As the subwoofer range is non-directional, the unit can be installed in a semi-hidden position
- Cabinet: material PVC covered Chipboard and Painted Front Medium density
- Input: Euroblock connector

SPECIFICATIONS

POWER

MQ 90S

60-30-15-7.5 W (100 V)

CONSTANT VOLTAGE

100 V, 70 V

FREQUENCY RESPONSE

70 ÷ 220 Hz (± 3 dB)

SENSITIVITY (1 m / 1 W)

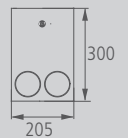
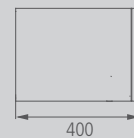
89 dB

MAXIMUM SOUND PRESSURE

107 dB (1 m / POWER MAX)

CONNECTORS

EUROBLOCK



MQ 60H Link

ACCESSORIES

□ MQ 60H Link White

p/n 133.60.080

■ MQ 60H Link Black

p/n 133.60.081



- AC MQ60HLINK accessories, available in black or White can be used to support 2 MQ 60H speakers to form an Omni directional high quality speaker array (360°) dispersion over a horizontal surface which is controlled over a vertical surface.
- MQ 60H Link is made in fibre-glass loaded nylon and it is provided with the slide-insupports for the direct mounting of the two MQ 60H speaker systems.
- Central fixing ring for the safe suspension of the speaker assembly through a chain or a steel-wire.

PROFESSIONAL AMPLIFIERS

HPS 1500

p/n. 121.35.055

CLASS H PROFESSIONAL POWER AMPLIFIER



HPS 1500 is a 2 channel power amplifier that delivers up to 2 x 750 W RMS @ 4 Ω (1500 W RMS bridged @ 8 Ω).

XLR inputs for patching in signals as well as Speakon ports for connecting speaker systems are provided for the maximum flexibility. A forced air cooling system maintains a low operating temperature.

HPS 2500

p/n. 121.35.054

CLASS H PROFESSIONAL POWER AMPLIFIER



HPS 2500 is a 2 channel power amplifier that delivers up to 2 x 1400 W RMS @ 2 Ω (2800 W RMS bridged @ 4 Ω).

XLR inputs for patching in signals as well as Speakon ports for connecting speaker systems are provided for the maximum flexibility. A forced air cooling system maintains a low operating temperature.

DPS 3000

p/n. 121.35.053

CLASS HD PROFESSIONAL POWER AMPLIFIER WITH PFC AND SMPS



DPS 3000 is a 2 channel power amplifier that can handle exceptionally high power ratings in a compact and lightweight 2 rack units space. Thanks to the class HD technology, this amplifier delivers up to 2 x 1700 W RMS @ 2 Ω (3400 W RMS bridged @ 4 Ω), weighing just 14 kg. It comes with a 'PFC' ('Power factor correction') switched-mode power supply which ensures that a predominantly resistive load is presented to the mains power supply; this also leads to an improved amplifier performance at high output levels. Thanks to its high efficiency heat sinks and variable speed DC fans, the DPS 3000 can withstand the hardest heat conditions ensuring great reliability.

	HPS 1500	HPS 2500	DPS 3000
Amplifier Class	Class H	Class H	Class HD
Power output RMS, bridged			
Stereo	2 x 750 W @ 4 Ω 2 x 450 W @ 8 Ω	2 x 1400 W @ 2 Ω 2 x 1100 W @ 4 Ω 2 x 700 W @ 8 Ω	2 x 1700 W @ 2 Ω 2 x 1200 W @ 4 Ω 2 x 800 W @ 8 Ω
Bridged	1500 W @ 8 Ω	2800 W @ 4 Ω 2200 W @ 8 Ω	3400 W @ 4 Ω 2400 W @ 8 Ω
Frequency response	20 Hz ÷ 20 kHz	20 Hz ÷ 20 kHz	20 Hz ÷ 20 kHz
THD @ 1 kHz	0.05 % , 1 dB below clip	0.05 % , 1 dB below clip	0.05 % , 1 dB below clip
Damping factor @ 8 Ω	> 300	> 300	> 1000
Slew rate	50 V / μs	50 V / μs	55 V / μs
Signal / noise ratio	106 dB	106 dB	108 dB
Input sensitivity (/voltage gain)	1.4 V (/ 32 – 26 dB)	1.4 V (/ 32 – 26 dB)	1.4 V (/ 32 – 26 dB)
Input impedance	20 kΩ (balanced), 10 kΩ (unbalanced)Temp., DC,	20 kΩ (balanced), 10 kΩ (unbalanced)Temp., DC,	20 kΩ (balanced), 10 kΩ (unbalanced)
Protective circuits	RFI, short-circuit	RFI, short-circuit	Temp., DC, RFI, short-circuit
Cooling	Temperature-controlled fan	Temperature-controlled fan	Temperature-controlled fan
Power supply / Operation voltage	220 ÷ 240 V (50 / 60 Hz)	220 ÷ 240 V (50 / 60 Hz)	SMPS / 90 ÷ 245 V (50 / 60 Hz)
Power factor (cos)	-	-	> 0.95 from 200 W to full power
Dimensions (w, h, d)	482 mm, 88 mm, 420 mm (2 unit rack)	482 mm, 88 mm, 420 mm (2 unit rack)	482 mm, 88 mm, 420 mm (2 unit rack)
Net weight	17 kg	19 kg	14 kg

PROFESSIONAL AMPLIFIERS

ED SERIES

ED 1100

p/n. 121.35.028



ED 600

p/n. 121.35.027



A 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
Output (W) Stereo per Channel @ 0hm	2 x 300 / 4 2 x 180 / 8	2 x 550 / 4 2 x 285 / 8
Output (W) bridged @ 8 Ohm	1 x 600 / 8	1 x 1100 / 8
Output (W) bridged @ 4 Ohm	1 x 310 / 4	1 x 570 / 4
Frequency response $\pm 0,2$ dB	1 x 195 / 8	1 x 325 / 8
Frequency response ± 3 dB	20 - 57.000 Hz	20 - 57.000 Hz
THD + N	0,05 % @ 1 KHz	0,05 % @ 1 KHz
Input sensitivity	0 dBm (0,775 V RMS)	0 dBm (0,775 V RMS)
Input impedance	20 kOhm bal./ 10 kOhm unbal.	20 kOhm bal./ 10 kOhm unbal.
Dampening factor	200:1 (8 Ohm)	200:1 (8 Ohm)
Slew Rate	50V/ μ S	50V/ μ S
Input connection	2 x XLR bal., 6,3mm jack unbal.	2 x XLR bal., 6,3mm jack unbal.
Output connection	2 x Neutrik Speakon4	2 x Neutrik Speakon4
Protection	Thermal, direct current, RFI, short circuit, transformer protection	Thermal, direct current, RFI, short circuit, transformer protection
Dimensions	19", 2 U rack 19"	19", 2 U rack 19"
Weight	12,5 kg/ 28 lbs	15 kg/ 33 lbs

DX4008

DX2006

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 30 kHz)
Dynamic Range:	115 dB typ (unweighted)
CMMR:	> 60 dB (50 to 10 kHz)
Crosstalk:	< -100 dB
Distortion:	0.002% (1kHz @+4dBu)

DIGITAL AUDIO PERFORMANCE

Processor:	40-bit (DX 2006) / 32-bit (40-bit extended) (DX 4008)
Sampling Rate:	96kHz
Analog Converters:	High Performance 24-bit
Propagation Delay:	1.5ms (DX 2006) 3ms (DX 4008)

FRONT PANEL CONTROL

Display:	2 x 16 Character Backlit LCD (DX 2006) 4 x 26 Character Backlit LCD (DX4008)
Level Meters:	5 segment LED
Buttons:	Mute/Edit Controls Menu Controls
Dial Encoder:	Embedded Thumb Wheel

CONNECTORS:

Analog Inputs:	3-pin Female XLR
Analog Outputs:	3-pin Male XLR
RS-232:	Female DB-9 (DX4008)
USB:	Type B (DX 2006)
Power:	Standard IEC Socket

GENERAL

Power:	90-240 VAC (50-60Hz)
Dimensions:	19"x1.75"x9" (483x44x229 mm)
Weight:	10 lbs / 4.5 kg

4 INPUT
8 OUTPUT DIGITAL PROCESSOR

p/n. 121.35.033

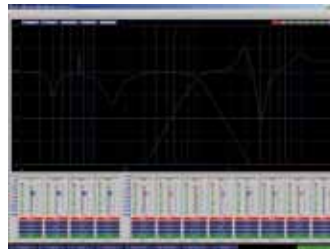
2 INPUT
6 OUTPUT DIGITAL PROCESSOR

p/n. 121.35.068

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.



DX 4008



The DX 4008 and DX 2006 are shipped with a special PC Graphic User Interface (GUI) application – Xlink that gives the user an option to control the digital processors. The GUI application makes it much easier to control and monitor the devices, allowing the user to get the whole picture on one screen. Programs can be recalled and stored from/to PC hard drive, thus expanding the storage to become virtually limitless.



DX 2006

The DX 2006 is a 2 input - 6 output loudspeaker management device with 40 bit floating point DSP and 96 kHz sampling rate, suitable for the optimization of passive loudspeaker systems. The DX 2006 offers flexible routing, signal processing and equalization and can be used also for multiple ways and multi-amplified systems managing.

LCD, controls and LED indicators are available on the frontal panel and it is also possible to set up and control the processor through a PC.

Various crossover modes are available and 30 programs/settings can be stored.

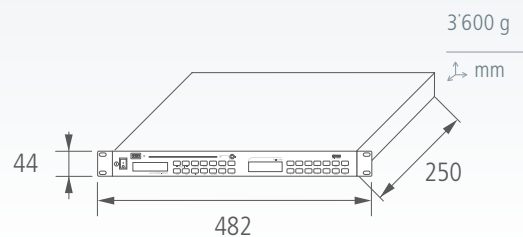
CD-USB MP3 PLAYER WITH FM RADIO TUNER p/n 171.70.108

MS1033



- Double sound source with two independent sections and outputs power (Tuner - CD/Mp3)
- CD player to reproduce audio tracks and Mp3 files from a compact disc (CD, CD-R, CD-R/W) or from the USB drive ("Flash" memory stick with only Mp3 files)
- The USB port is available on both front and back panels to provide maximum flexibility
- LCD backlit display gives information on the CD and Mp3 files
- I/R remote control for CD and Tuner included
- FM radio tuner (87.5 - 108 MHz) with possibility to memorize your 30 favourite radio stations
- Stereo / Mono selector for applications where stereo signals are not needed
- LCD backlit display shows the frequency and stations that are in memory
- SD Card port available on the front panel

REAR VIEW



SPECIFICATIONS

MS 1033

AUDIO OUTPUT LEVEL	+4 dBu ± 2 dBu (1.2 V ± 0.2 V)
FREQUENCY RESPONSE	20 ÷ 20.000 Hz (CD); 100 ÷ 12.000 Hz (RADIO)
DISTORTION (THD+N)	< 0.1% (CD); < 0.8% (RADIO)
FREQUENCY RANGE	87.5 ÷ 108 MHz (FM)
SIGNAL TO NOISE RATIO	> 70 dB (CD); > 60 dB (RADIO)
CHANNEL SPLIT	≥ 60 dB (CD); ≥ 30 dB (RADIO)
SENSITIVITY	≤ 10 V
SUPPLY VOLTAGE	220÷240 V / 110÷120 V (50 / 60 Hz)
OUTPUT CONNECTORS	RCA (L&R RADIO); RCA (L&R CD USB/MP3); RCA (L&R MIXED)

RACKS AND TRANSFORMERS

RT 2006

RACK ENCLOSURE FOR
POWER TRANSFORMERS

p/n. 171.70.125

- The RT 2006 is a standard 2 unit 19" rack enclosure to house and connect up to 6 TD 300 transformers, up to 4 model TD 500 transformers or up to 2 TD 1000 transformers.
 - Different transformers can also be combined within the panel.
 - The RT 2006 has an interface circuit with connection terminals between amplifiers, transformers and speaker lines.
 - The connections are all removable and sized for maximum applicable power.
 - Easy transformer installation and connection to terminals
 - Thanks to material over-sizing and alternate layer windings, frequency response of the transformers is particularly extended. These transformers can be used also with professional high performance loudspeakers.
- Nominal 300W TD 300 Toroidal transformer, main 4Ω, secondary 100V. Terminals for quick connection to panel RT 2006. Quick transformer mounting inside the rack chassis with the supplied kit

Nominal 500W TD 500 Toroidal transformer, main 4Ω, secondary 100V. Terminals for quick connection to panel RT 2006. Quick transformer mounting inside the rack chassis with the supplied kit.

Nominal 1000W TD 1000 Toroidal transformer, main 4Ω, secondary 100V. Terminals for quick connection to panel RT 2006. Quick transformer mounting inside the rack chassis with the supplied kit



TD 300 p/n 171.70.126
300W PROFESSIONAL AUDIO TOROIDAL TRANSFORMER

TD 500 p/n 171.70.127
500W PROFESSIONAL AUDIO TOROIDAL TRANSFORMER



TD 1000 p/n 171.70.128
1000W PROFESSIONAL AUDIO TOROIDAL TRANSFORMER

SPECIFICATIONS

TD 300 - 500 - 1000

INPUT IMPEDANCE (PRIMARY)	4 Ω (35 V - TD 300; 45 V - TD 500; 63 V - TD 1000)
OUTPUT VOLTAGE (SECONDARY)	100 V (33 Ω - TD 300; 20 Ω - TD 500; 10 Ω - TD 1000)
FREQUENCY RESPONSE	50 - 20.000 Hz
THERMAL DETECTION THRESHOLD	90° C
NOMINAL POWER	300 VA (TD 300); 500 VA (TD 500); 1000 VA (TD 1000)
DIMENSIONS (DIAMETER, HEIGHT)	ø 115 mm, 65 mm (TD 300); ø 125 mm, 70 mm (TD 500); ø 170 mm, 75 mm (TD 1000)
NET WEIGHT	2.7 kg (TD 300); 3.3 kg (TD 500); 7.2 kg (TD 1000)
INPUT CONNECTORS	SPEAKON (RT 2006)
OUTPUT CONNECTORS	SCREW TYPE EUROBLOCK (RT 2006)

UNIVERSAL LINE TRANSFORMERS

TD 10, 10 W p/n 133.60.045

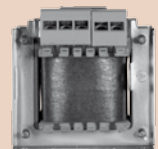
TD 60, 60 W p/n 133.60.047

TD 240, 240 W p/n 133.60.049

TD 30, 30 W p/n 133.60.046

TD 120, 120 W p/n 133.60.048

High quality transformers suitable to connect loudspeakers with 4-8 Ω impedance to constant voltage lines (70-100V). It's possible to select different power values. Thanks to material over-sizing and alternate layer windings, they offer high performance: dynamics and frequency response are particularly extended. They are suitable to drive professional speakers through constant voltage power amplifiers.



SPECIFICATIONS	TD 10	TD 30	TD 60	TD 120	TD 240
OUTPUT POWER 4 Ω	1.2 - 2.5 - 5 - 10 W	15 - 30 W	15 - 30 - 60 W	30 - 60 - 120 W	60 - 120 - 240 W
OUTPUT POWER 8 Ω	0.6 - 1.2 - 2.5 - 5 - 10 W	7.5 - 15 - 30 W	7.5 - 15 - 30 - 60 W	15 - 30 - 60 - 120 W	30 - 60 - 120 - 240 W
FREQUENCY RESPONSE	50÷18'000 Hz	50÷18'000 Hz	50÷18'000 Hz	50÷18'000 Hz	50÷18'000 Hz
DIMENSIONS	86 x 53 x 59 mm	87 x 53 x 68 mm	77 x 77 x 79 mm	85 x 85 x 90 mm	98 x 89 x 100 mm
WEIGHT	500 g	700 g	1200 g	1900 g	3100 g

AMPLIFIER / CONTROL UNIT p/n 121.35.043

MS520

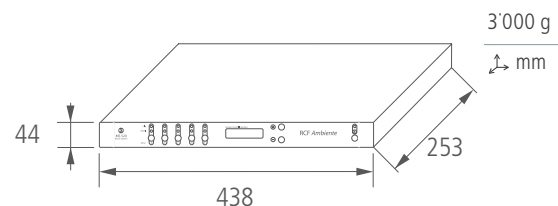


- MS 520 contains all functions required by a system to send different musical programmes in homes and commercial premises
- Three different musical programmes and one for paging can be sent to five mono zones or, alternatively, 3 mono zones and one stereo zone
- A direct auxiliary input is available for each of the five zones to connect sources such as CD players, wireless microphones or mixers to be used exclusively for one zone/room
- It is also possible link two RCF AMBIENTE and share the music sources in order to extend the number of zones to ten
- The third music source input can have priority (when enabled) over the other two music sources
- Power outlet controlled by the system to switch a connected sound sources on/off
- Five amplified 20 W / 4 ohm outputs, each also available as full-range or low-pass signal at line level on RCA connectors to drive external power amplifiers (when areas to be covered are particularly large)
- The universal MIC-LINE input can be used for paging, with the possibility to have a tone that precedes the announcement
- The VOX function can be matched to a zone group to work without pressing keys or closing contacts (e.g. from a suitable private telephone exchange)
- For each zone, an RJ 45 connector allows the connection of remote controls (max. 3 per zone) via CAT5 cable for volume control, musical programme selection or direct input activation installable in any electrical mounting box by using the original local country supports and cover-plates

SPECIFICATIONS

MS 520

OUTPUT POWER	5 x 20 W RMS
FREQUENCY RESPONSE	20 ÷ 18000 Hz (± 3 dB)
T.H.D.	< 0.5% @ 1 kHz
MIN. OUTPUT LOAD (PER ZONE)	4 Ω
TONE CONTROLS	LOW: 100 Hz ± 8 dB; HIGH: 12.5 kHz ± 8 dB
SIGNAL / NOISE RATIO	> 60 dB (PAGING IN); > 78 dB (MUSIC SOURCE IN, DIRECT IN)
INPUT SENSITIVITY	(MIC) - 58 dBu ÷ - 41 dBu (1 ÷ 7 mV); (LINE) - 43 dBu ÷ -27 dBu (5.5 ÷ 35 mV); (MUSIC, DIRECT) - 16 dBu (120 mV)
PHANTOM POWER SUPPLY (PAGING INPUT)	16 V dc
POWER SUPPLY	100 ÷ 240 V ac (50 - 60 Hz)
INPUT CONNECTORS	11 x RCA (LINE), RJ 45 FOR REMOTE CONTROLS
OUTPUT CONNECTORS	7 x RCA, SCREW TERMINALS FOR LOUDSPEAKERS



Black label provided for front panel



RC 62

REMOTE CONTROL FOR MS 520

- RC 62-W white p/n 133.60.039
- RC 62-G grey p/n 133.60.040
- RC 62-S silver p/n 133.60.041

Designed to be simply inserted into any 503 flush / wall mounted box using original standard supports and cover-plates that can be found on the market. It allows to select programmes and adjust the volume in the respective zone. It can turn the MS 520 in stand-by mode as well. It can be linked to a MS 520 by using CAT5 cables and RJ 45 plugs. Available in white (W), grey (G) and silver (S)



* The picture above shows a possible installation of the RC 62 remote control (box, front plate, blank keys are not included).

UNIVERSAL ACCESSORIES FOR LOUDSPEAKERS

RCF offers a complete line of universal high quality accessories for loudspeakers. Refer to each product page for its dedicated accessories.



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.



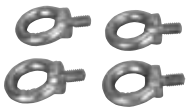
133.60.036 **AC S140**

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.

UNIVERSAL ACCESSORIES FOR LOUDSPEAKERS



133.60.109 **AC PRO-FS**

Steel speaker floor stand with folding base and telescopic rod, tube diameter 35mm. Load capacity up to 50kg, Weight 4.5 Kg, H MIN/MAX 137cm/210cm. Length once folded 102cm



133.60.111 **AC PRO-LF**

Steel professional adapter sleeve for loudspeaker floor stands, tube diameter 35mm. Load capacity up to 50kg, Weight 0.7 Kg, H 275cm.



133.60.110 **AC PRO-PM**

Steel pole mount accessory for a satellite loudspeaker on a subwoofer, tube diameter 35mm. Load capacity up to 35kg, Weight 2.4 Kg, H MIN/MAX 95cm/137cm.



133.60.102 **AC XLR-3M3F**

3 XLR Female connector with nickel body and silver contacts. 3 XLR Male connector with nickel body and silver contacts.



the rules of sound

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