

H SERIES

THREE-WAY SPEAKERS AND HORN LOADED ARRAY SYSTEMS

The RCF H Series is designed to provide high sensitivity, high output and directivity as required for larger scale installations.

Horn-loaded array systems can be easily converted from vertical installation mode to space saving horizontal placement. All speakers are equipped with RCF Precision Transducers and latest horn technology.

The RCF H Series cabinets are constructed using the highest quality Baltic birch plywood and finished with an extremely resistant epoxy paint. The cabinets have a multi-trapezoid shape that helps double coupling array configurations. Extensive fly-ware positions are provided for ease of installation.



SUPERIOR INTELLIGIBILITY OVER DISTANCE

Thanks to its large format compression driver on a waveguide, HL20 WP offers superior intelligibility over distance.

SYMMETRICAL DESIGN

Due to its symmetrical design, HL20 WP produces constant coverage without break or attenuation.

MADE-TO-ORDER ACCESSORIES

An example of RCF full customization: our team created on purpose a special cluster flybar for 2 units of H1315 WP in the Juventus stadium.



SYSTEM

HL20 WP
TWO WAY SYSTEM

H1312 WP
THREE WAY SYSTEM

H1315 WP
THREE WAY SYSTEM

FREQ. RANGE (-10 dB):	55 Hz - 20 kHz	50 Hz - 20 kHz	60 Hz - 20 kHz
FREQ. RANGE (-3 dB):	60 Hz - 20 kHz	65 Hz - 20 kHz	75 Hz - 20 kHz
HORIZ. COVERAGE ANGLE (-6 dB):	100°	60°	90°
VERTICAL COVERAGE ANGLE (-6 dB):	15°	40°	60°
DIRECTIVITY FACTOR; Q:	16	12	11
SYSTEM SENSITIVITY:	102dB 1W@ 1m	LF 100 dB , HF/MF 108 1W @ 1m	LF 98 dB , HF/MF 106 1W @ 1m
RATED MAXIMUM SPL:	135 dB, @ 1m	136 dB, @ 1m	134 dB, @ 1m
SYSTEM NOMINAL IMPEDANCE:	116 Ohm, Biamp	8 Ohm	8 Ohm
SYSTEM INPUT POWER RATING RMS:	LF 600 W, HF 100W	LF 900 W, HF/MF 400W	LF 800 W, HF/MF 300W
SYSTEM INPUT POWER RATING PEAK:	LF 2400 W, HF 400W	LF 3600 W, HF/MF 1600W	LF 3200 W, HF/MF 1200W
RECOMMENDED AMPLIFIER:	LF 1200 W, HF 200W	LF 1800 W, HF/MF 800W	LF 1600 W, HF/MF 600W
HF PROTECTION:	-	Active MOSFET on compression driver	Active MOSFET on compression driver
CROSSOVER:	Recommended 800 kHz	Recommended 300 kHz, internal MF/HF 1300 Hz	Recommended 500 kHz, internal MF/HF 2000 Hz



CHOOSE THE COLOR OF YOUR LOUSPEAKERS

Who said that loudspeakers must be black? All of our TT+, P Series and H Series solutions can be given a distinctive and original hue – for instance with the home team’s colors. Not just black or white, but all **RAL tints** are available. RCF uses only high quality paints that give a new appearance to the product without compromising on weatherproofing and resistance.



HL 2260
THREE WAY SYSTEM

HL 2240
THREE WAY SYSTEM

HL 2290
THREE WAY SYSTEM

HS 2000
THREE WAY SYSTEM

60 Hz - 20 kHz	60 Hz - 20 kHz	60 Hz - 20 kHz	30 Hz - 200 Hz
80 Hz - 20 kHz	80 Hz - 20 kHz	80 Hz - 20 kHz	35 Hz - 200 Hz
60°	40°	90°	-
22.5°	22.5°	22.5°	-
8	8	8	8
LF 104 dB , HF 113 1W @ 1m	LF 104 dB , HF 113 1W @ 1m	LF 104 dB , HF 113 1W @ 1m	100 dB 1W @ 1m
141 dB, @ 1m	141 dB, @ 1m	141 dB, @ 1m	136 dB, @ 1m
8 Ohm	8 Ohm	8 Ohm	8 Ohm
LF 1350 W, HF 150W	LF 1350 W, HF 150W	LF 1350 W, HF 150W	LF 900 W
LF 5400 W, HF 600W	LF 5400 W, HF 600W	LF 5400 W, HF 600W	LF 3600 W
LF 2700 W, HF 300W	LF 2700 W, HF 300W	LF 2700 W, HF 300W	LF 1800 W
-	-	-	-
Recommended 600 kHz	Recommended 600 kHz	Recommended 600 kHz	-

H1315 WP

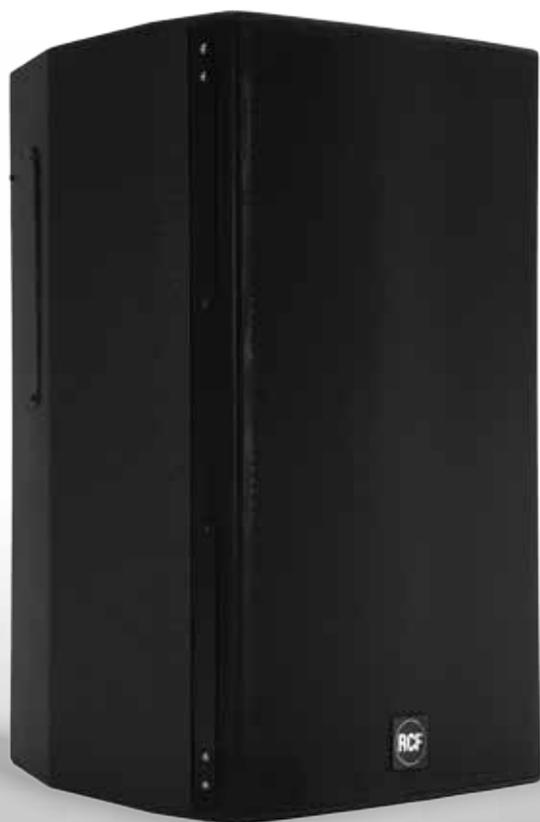
PASSIVE THREE-WAY HORN LOADED SPEAKER SYSTEM

The RCF H1315 WP is a three-way full range loudspeaker system that incorporates a 15" LF transducer, a 10" cone MF transducer and a 1.4" exit titanium compression driver.

The cabinet and the components are weatherproof, so that H1315 WP loudspeakers are suitable for installation in places with high humidity and outdoors.



- Compact arrayable three-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
- Rotatable HF horn
- Recessed handles

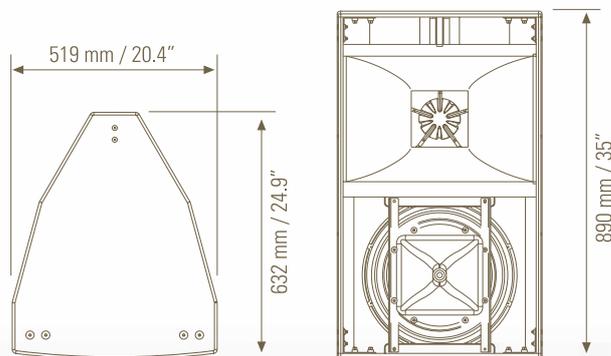


The LF driver, equipped with a 4" voice coil and a state of the art neodymium motor, is placed in a vented enclosure with optimised front loading.

The MF cone driver is a unique sealed basket RCF design and is loaded into an 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 an active MOSFET circuit. The system is driven in bi-amped mode, it is able to produce a max SPL higher than 136 dB and it handles 900 Watts AES (LF) + 400 Watt AES (MF/HF).

The loudspeaker's enclosure has a multi-trapezoidal shape, that allows double coupling angle on each side. The cabinet of the H1315 WP is constructed of multi-ply Baltic birch plywood and finished with a very resistant, textured, polyurethane black paint. The cabinet is treated inside & outside with black polyurea paint.



The cabinet includes 2 recessed handles for transportation and positioning, a total of six double M10 fixing points for flown applications, and extensive internal metal bracing.

The front steel grille is equipped with two layers of weather-resistant open-cell fibres and water repellent woven fabric backing. The transducer cones were also subject to a special additional treatment to resist against critical environmental conditions. The H1315 WP is equipped with an IP 67 removable Amphenol terminal.

H1312 WP

THREE-WAY HORN-LOADED PASSIVE SPEAKER SYSTEM

The RCF H1312 WP is a three-way full range loudspeaker system that incorporate a 12" LF transducer, a 8" cone MF transducer and a 1" exit titanium compression driver.

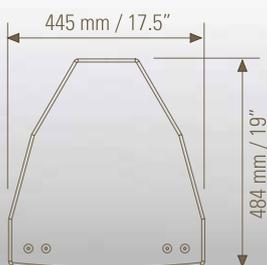
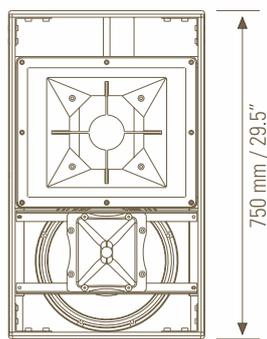
The system is very compact and provides remarkably high output and accurate voice and sound reproduction.



- Compact arrayable three-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
- Rotatable HF horn
- Recessed handles

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 installed 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 can be rotated with an easy movement.



HL20 WP

WEATHERPROOF PASSIVE LINE ARRAY MODULE

The HL20 WP is a compact, wide dispersion, two-way passive line array module that offers the highest performance from a small size line array.

Incredible high output and dynamics, extreme accuracy and high frequency extension plus compact size make the HL20 WP the ideal tool for outdoor sound reinforcement, live performances and big sports events as well as fixed installations.

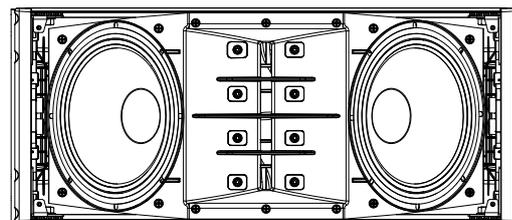


The cabinet is a trapezoidal, 21 mm Baltic birch plywood construction. It is finished with a weatherproof, scratch-resistant and fireproof white coating.

6 x Side M10 rigging points



- Maximum output per size available on the market
- 100 x 15 constant directivity coverage angle
- 2 x 10" RCF woofer, 2.5" voice coil
- 1.5" throat, 3.0" voice coil
- Minimum weight (34/74.95 kg/lbs)
- 135 dB max SPL
- Watertight multi-pole connector IP 67
- Recommended amplifier: LF 1200 W, HF 2000 W



CUSTOM-DESIGNED WAVEGUIDE

The custom-designed waveguide allows a precise coverage of 100 x 15 degrees, whilst also delivering a superb linear HF response.



HL2260

HORN-LOADED TWO-WAY ARRAY

The HL2260 is a horn-loaded two-way full range array system that incorporates a 2 x 12" woofer and a 2.0" exit 4.0" voice coil titanium compression driver for mid-distance and long-throw applications. The system is very compact and provides strikingly high output as well as accurate voice and sound reproduction, thanks to the latest generation of RCF Precision Transducers.

The cabinet is made of Baltic birch marine plywood and finished with a very resistant textured polyurea black paint. The grille is made of epoxy coated perforated steel, and has a water-repellent woven fabric backing with open-cell fibres.



The system is fully horn-loaded and it is ideally used either in point source configuration for mid distances or clustered with narrower angles for long-throw applications.



- Horn-loaded two-way array system
- Fully horn-loaded, 60° x 22.5° (40° x 22.5°, 90° x 22.5°) directivity
- 2 x 12" RCF precision woofers with 3.5" voice coil
- RCF precision 4.0" voice coil compression driver, titanium dome
- Horn loading on RCF waveguide
- 141 dB max SPL
- System power rating 1500 Watt RMS (1350 Watt LF, 150 Watt HF)
- Safe and solid variable array mechanics
- Baltic birch plywood enclosure with internal structural metal bracings

