



# technical specifications RR12

## general

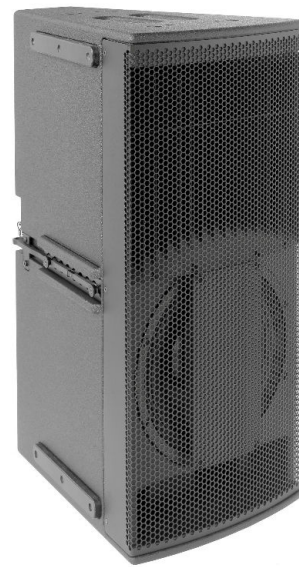
- Unique seamless arrayability up to/beyond 20kHz
- A-symmetric patented 60° dispersion in the non-coupling plane
- 1:1 non-compressed sound reproduction, with up to 90% less distortion
- Pro-ribbon HF driver with exceptional intelligibility and 1:16 dynamic output
- Very high acoustical power output with wide frequency response
- SIS pre-wired for very high damping and further reduced distortion
- All Neodymium drivers for excellent performance-to-weight ratio

## description

The RR12 is a point-source array element, developed as “building block” to create tight packed arrays for controlled sound coverage in the widest variety of audience areas.

The system features the Alcons-proprietary RBN602rs 6” pro-ribbon driver and a custom-designed 12” woofer with 4” voice coil, dual-spider suspension with forced-venting; while both transducers have Neodymium motor structures, the RR12 has a very high performance-to-weight ratio.

The purpose-designed 6” pro-ribbon driver is based on Alcons’ all-new “RBN02” pro-ribbon platform; This platform dramatically raises the bar in power handling and efficiency of pro-ribbon transducer technology.



The RBN602rs is coupled to an asymmetric “Morph-Max™” wave-guide, designed using the latest, state-of-the-art development tools: Proprietary-programmed analysis/simulation software in combination with 3D-prototyping and special manufacturing techniques, resulted in this non-compressing, resonance-free multi-cell guide with wide-band razor-sharp directivity control up to beyond 20kHz..

The trapezoidal cabinet is fitted with integrated mounting hardware, enabling array assembly with just a single operation from the rear of the cabinet.

Tight-packing the RR12 in horizontal or vertical arrays for stacked or flown applications, dispersion patterns are formable in increments of 30°; 30°, 60°, 90°, 120° in the coupling plane, by asymmetric 60° (+20°/-40°) in the non-coupling plane.

The RR12 is driven by the Sentinel amplified loudspeaker controller; The system's response is optimised by factory presets for each array configuration, including presets for phase-matched low-frequency extensions.

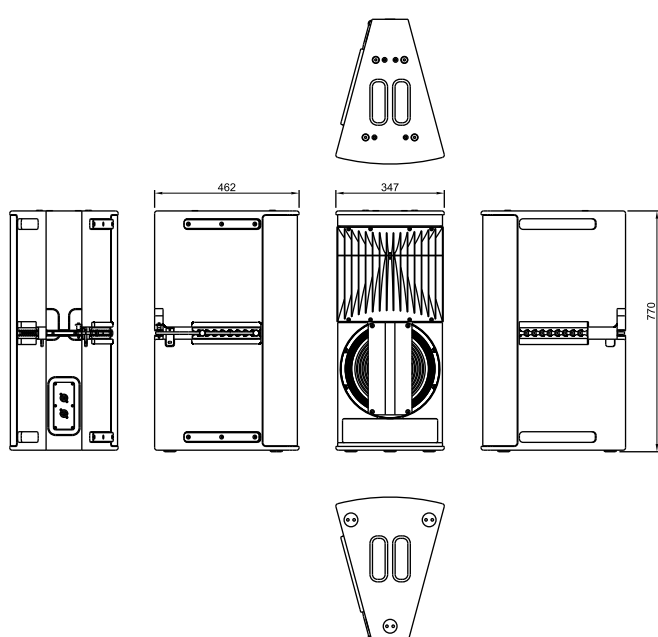
The Signal Integrity Sensing™ pre-wiring ensures complete cable/connector compensation between the RR12 and Sentinel, resulting in a fast and tight mid and bass response, while reducing distortion even further.

Utmost reliability is one of the main essentials for Alcons systems: Each transducer/processing design has to pass a rigorous 1000 hour test at maximum (clip) levels. This is a key element in Alcons' system development.

Each array configuration can be simulated in the Alcons Ribbon Calculator (ARC), Alcons' high-resolution 3D simulation program.

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### dimensional drawing



### technical specifications

|                           |                                     |             |
|---------------------------|-------------------------------------|-------------|
| Frequency response        | 69 Hz - 20.000 Hz                   | (+/- 3 dB)  |
|                           | 51 Hz -                             | (+/- 10 dB) |
| Sensitivity nominal       | 105 dB (200 Hz - 10 kHz)            |             |
| Nominal impedance         | 8 ohms                              |             |
| Recommended drive         | Sentinel10, max. 3 pcs. per channel |             |
|                           | (2.7 ohms)                          |             |
| Nominal SPL peak          | 135 dB (Sentinel10 200 Hz - 10 kHz) |             |
| Dispersion H x V (single) | H 30° x V +20°/-40° (@ 20 kHz)      |             |

### physical specifications

|                     |                                  |          |
|---------------------|----------------------------------|----------|
| System              | 2-way, full range                |          |
| Filtering           | passive                          |          |
| Drivers LF          | 1x AW12.4ND-8 12", vented        |          |
| Drivers HF          | 1x RBN602rs 6" pro-ribbon driver |          |
| Connectors          | 2x Speakon NL4 input/link        |          |
| Physical dimensions | mm                               | inches   |
|                     | Height                           | 770 30.3 |
|                     | Width                            | 347 13.7 |
|                     | Depth                            | 462 18.2 |
| Weight (approx.)    | kg                               | lb       |
|                     | 29,5                             | 65,0     |
| Warranty            | 6 years limited                  |          |

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