



# technical specifications RR12

## general

- Unique seamless arrayability up to/beyond 20 kHz
- 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 2-way 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 RBN602rs has a peak power



handling of 1.000W (200 msec) and is coupled to an asymmetric “Morph-Max™” wave-guide; This wave-guide provides more throw to the rear to distribute sound evenly front-to-back.

Designed using the latest, state-of-the-art development tools, the non-compressing, resonance-free multi-cell guide features wide-band razor-sharp directivity control up to beyond 20 kHz.

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°, ... 360°

in the coupling plane, by asymmetric 60° (+20°/-40°) in the non-coupling plane.

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

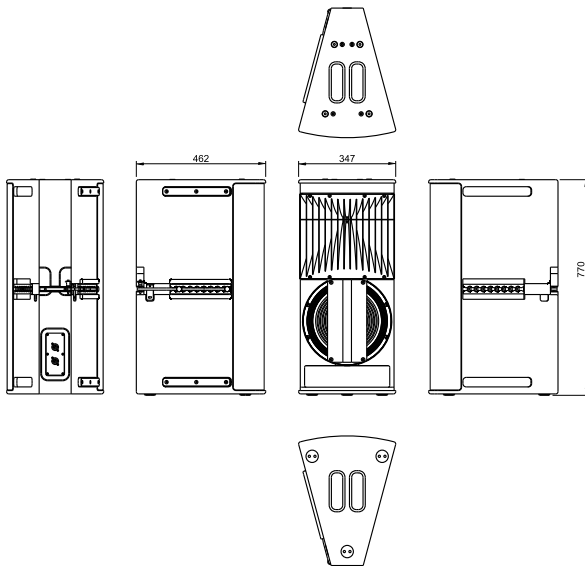
The RR12 is driven by the Sentinel amplified loudspeaker controller; The system's response is optimised by factory presets for each array configuration, including presets for phase-matched low-frequency extensions.

The Signal Integrity Sensing™ pre-wiring ensures dynamic cable/connector compensation between the RR12 and ALC; This offers a 1:1, undistorted natural sound reproduction, regardless of cable length and amplifier impedance load (down to 2 ohms).

Array configurations 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 kHz	(+/- 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	135dB (Sentinel10 200 Hz - 10 kHz)	
Dispersion	H 30° x V +20°/-40° (@ 20 kHz)	

### physical specifications

System	2-way, full-range	
Filtering	passive	
Drivers LF	1x AW12.4ND 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.)	29,5 kg	65.0 lb
Warranty	6 years limited	

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