



technical specifications QRP40/90

general

- Point-source column with high-Q directivity for increased projection control
- RBN1203 pro-ribbon HF driver with exceptional intelligibility and “throw”
- 1:1 non-compressed linear sound reproduction, with up to 90% less distortion
- Fully symmetric and coherent horizontal and vertical pattern control
- Woofers with Active Coil™ technology for further reduced LMF distortion
- Shallow form factor and ACO™ color option for unobtrusive deployment



description

The QRP40/90 is a 2-way column loudspeaker to be used as vertical sound system, for both permanent and portable applications. Its slim design packs a perfectly natural, dynamic sound reproduction with superb intelligibility, coverage and throw.

It is specifically designed for applications where ultimate fidelity response needs to be projected with a very precise coverage, ideal in acoustically challenging environments, or applications where intelligibility-over-distance is required.

Loaded with the RBN1203 12" / 30cm pro-ribbon driver on a “Morpher” lens, the system offers an exceptional, SPL-independent throw-efficiency and projection control, due to the pro-ribbon’s all-natural cylindrical (isophasic) wavefront. The patented (90-degrees) horizontal dispersion offers a consistent audience coverage up to the highest frequencies.

Its fast impulse response, “compression-less” principle and unusual high peak power handling of (2000W @ 200ms) cater for a perfect intelligibility from the lowest to the highest SPL with a 1:15 dynamic range, while offering a maximum “gain-before-feedback”.

The RBN1203 driver is mounted in a co-axial speaker configuration with eight woofers in a sealed cabinet. The custom-design 5” woofers feature Active Coil™ technology for extremely low-distortion LF reproduction, a perfect match with the MHF pro-ribbon technology. The acoustic length assists the QRP40 in an extended vertical projection control in the low-mid frequency range, at the same time enabling a smooth but powerful roll-off to additional subwoofers.

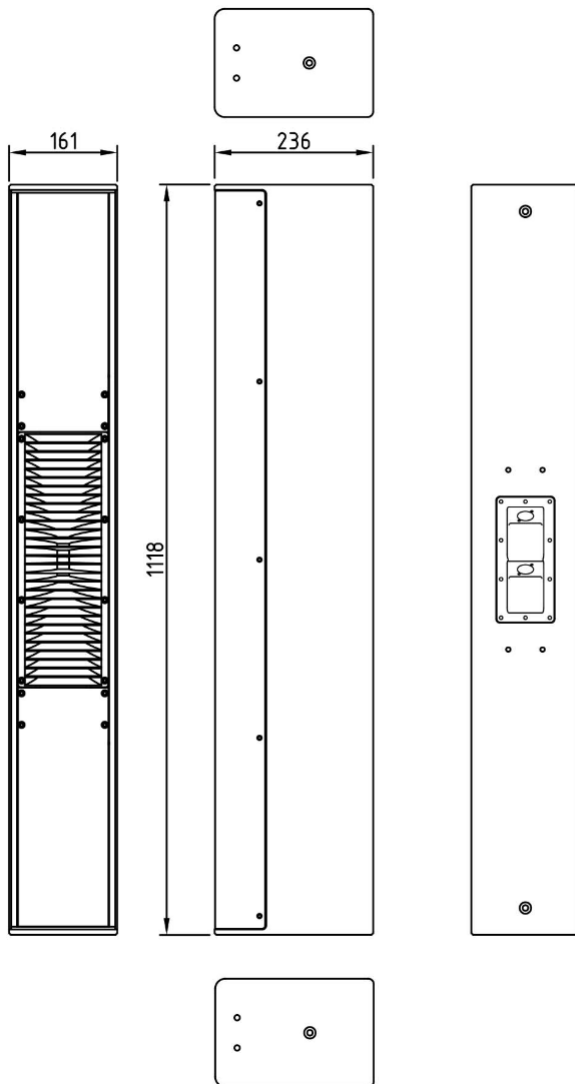
The frequency response roll-off enables an excellent partnering with an additional subwoofer, like the QB242.

The system brings the unsurpassed clear, dynamic and ultra-low distortion Alcons signature sound in a very slim and unobtrusive package; The M10 mounting points on top and bottom and the M6 universal mounting bracket pattern on the back, together with the optional ACO™ color scheme provides for an inconspicuous, low-profile presence in any application.

The QRP40 is powered and controlled by the ALC amplified loudspeaker controller; Through the integrated VHIR™ processing, audiophile amplifier stages and Signal Integrity Sensing™ feedback circuit, the ALC offers QRP40-specific drive processing, delivering absolute maximum sound quality with increased headroom and utmost operation reliability and flexibility.

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dimensional drawing



technical specifications

Frequency response	71 Hz - 20.000 Hz	(+/- 3 dB)
	62 Hz -	(+/- 10 dB)
Sensitivity nominal	103 dB (200 Hz - 10 kHz)	
Nominal impedance	4 ohms	
Recommended drive	Sentinel3 min.	
Nominal SPL peak	131 dB (Sentinel3 200 Hz - 10 kHz)	
	136 dB (Sentinel10 200 Hz - 10 kHz)	
Dispersion H x V	90° x 20° (@20kHz)	

physical specifications

System	2-way, full-range	
Filtering	passive	
Drivers LF	8x AMB5NDAIC-16 5", sealed	
Drivers HF	1x RBN1203 12" pro-ribbon driver	
Connectors	2x Speakon NL4 input/link	
Physical dimensions	mm	inches
Height	1118	44.0
Width	161	6.3
Depth	236	9.3
Weight (approx.)	kg	lb
	22	48.5
Warranty	6 years limited	

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