



# technical specifications QRP20/120

## general

- Column array system with high-Q directivity for increased projection control
- RBN401 pro-ribbon HF driver with exceptional intelligibility and “throw”
- 1:1 non-compressed sound reproduction, with up to 90% less distortion
- All Neodymium drivers for excellent performance-to-weight ratio
- SIS pre-wired for very high damping and further reduced distortion (with ALC)
- Shallow form factor and ACO™ color option for unobtrusive deployment



## description

The QRP20/120 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 very wide horizontal and narrow vertical coverage, ideal in acoustically challenging environments, or applications where intelligibility-over-distance is required.

Loaded with the RBN401 4” 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 (120-degrees) horizontal dispersion offers a very wide and consistent audience coverage up to the highest frequencies.

Its fast impulse response, “compression-less” principle and unusual high peak power handling (800W @ 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 RBN401 driver is mounted in a D’Appolito speaker configuration with four 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 frequency response roll-off enables an excellent partnering with an additional subwoofer.

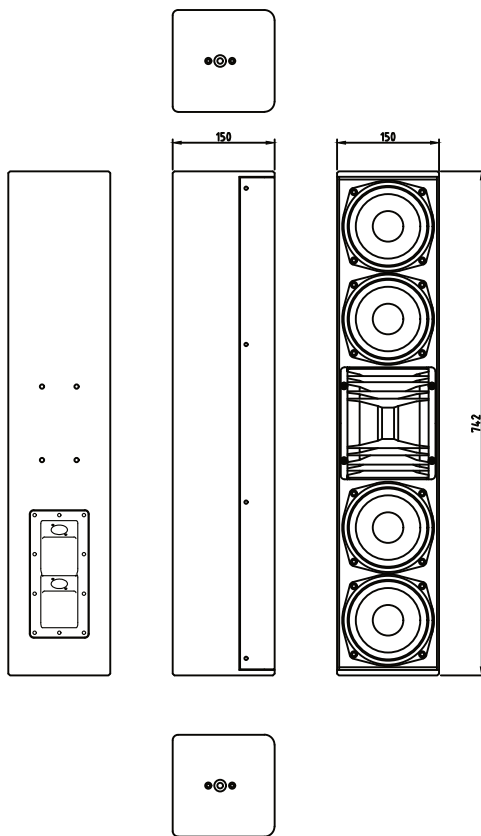
The system brings the unsurpassed clear, dynamic and ultra-low distortion Alcons signature sound in a very slim and unobtrusive package; The M10 mounting points on top and bottom and the M6 universal mounting bracket pattern on the back, together with the optional ACO™ color scheme provides for an inconspicuous,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

The QRP20 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 QRP20-specific drive processing, delivering absolute maximum sound quality with increased headroom and utmost operation reliability and flexibility.

The QRP20 is available in two versions with 90-degree (QRP20/90) and 120-degree (QRP20/120) horizontal dispersion.

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### dimensional drawing



### technical specifications

|                     |                                     |             |
|---------------------|-------------------------------------|-------------|
| Frequency response  | 72 Hz - 20.000 Hz                   | (+/- 3 dB)  |
|                     | 64 Hz -                             | (+/- 10 dB) |
| Sensitivity nominal | 97 dB (200 Hz - 10 kHz)             |             |
| Nominal impedance   | 4 ohms                              |             |
| Recommended drive   | Sentinel3 min.                      |             |
| Nominal SPL peak    | 126 dB (Sentinel3 200 Hz - 10 kHz)  |             |
|                     | 131 dB (Sentinel10 200 Hz - 10 kHz) |             |
| Dispersion H x V    | 120° x 15° (@20kHz)                 |             |

### physical specifications

|                     |                                |        |
|---------------------|--------------------------------|--------|
| System              | 2-way, full-range              |        |
| Filtering           | passive                        |        |
| Drivers LF          | 4x AMB5NDAIC-16 5", sealed     |        |
| Drivers HF          | 1x RBN401 4" pro-ribbon driver |        |
| Connectors          | 2x Speakon NL4 input/link      |        |
| Physical dimensions | mm                             | inches |
| Height              | 742                            | 29.2   |
| Width               | 150                            | 5.9    |
| Depth               | 150                            | 5.9    |
| Weight (approx.)    | kg                             | lb     |
|                     | 12                             | 26.5   |
| Warranty            | 6 years limited                |        |

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