



technical specifications QR18

general

- RBN1801 pro-ribbon HF drivers with exceptional intelligibility and high SPL output
- All Neodymium drivers for excellent performance-to-weight ratio
- Modular scalable array system, with multiple units flown or stacked above each other
- SIS pre-wired for very high damping and further reduced distortion (with ALC)
- Extended headroom/SPL and protection in combination with SDP modules (with ALC)
- Passive filtering for easy operation and economical powering

description

The QR18 is a modular 2-way column loudspeaker to be used as vertical array, either in stacked or flown configuration, for both permanent and (limited) portable installations. It combines the ease-of-use handling of a conventional system, with the throw of a line-array system.

Featuring a single RBN1801 pro-ribbon driver (patents pending), the QR18 offers Real-90 horizontal dispersion with seamless coverage; its transient response and high peak power handling enable an amazing intelligibility and throw.



The 91% active frontal radiation, in combination with the ribbon's all-natural cylindrical flat (Isophasic) wavefront, brings maximum "gain-before-feedback" up to directly in front of / under the cabinet.

The Signal Integrity Sensing™ pre-wiring ensures complete cable/connector compensation between the QR18 and ALC. In this way, the ALC can be loaded down to 2 ohms, without any sacrifice on response quality (4 units QR18 parallel on one channel loads 3 ohms).

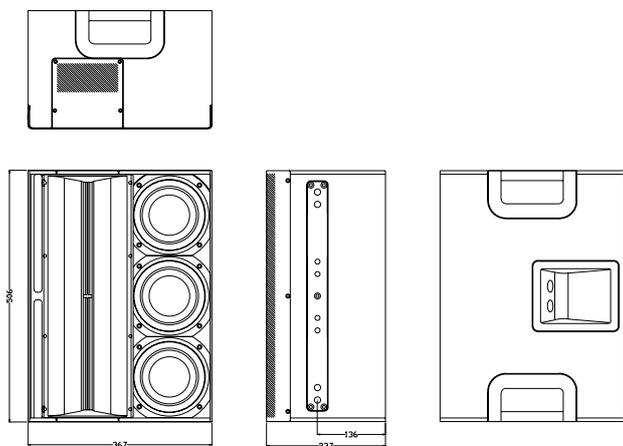
The system includes dedicated filtering, but system equalizing is done remotely (electronically) fully utilizing the individual speaker components' power

capacity; In combination with the unusual high peak power handling (3000W/200mS), this results in a virtually infinite headroom SPL from 1kHz.up.

Typical applications for the QR-systems include main system for theatre, PA system in “acoustically challenging rooms”, as well as high power side-fill stage monitoring.

For full system performance, the QR18 needs to be driven by an ALC controller-amplifier. Driven by the ALC, the QR18 delivers maximum sound quality with inaudible (power and excursion) protection (SDP circuit).

dimensional drawings



technical specifications

Frequency Response	
+/- 3 dB	74 Hz - 20.000 Hz
+/- 10 dB	53 Hz -
Sensitivity (SPL 1W/M)	97 dB
Nominal Impedance	12 ohms
Maximum RMS power (AES)	390 W
Maximum peak power (AES)	3000 W*
SPL program (nom.)	123 dB
SPL peak (nom.)	144 dB*
Dispersion H x V	90° x array length dep.

* from 1 kHz. up

physical specifications

System	2-way, full-range	
Filtering	passive	
Drivers LF	3 x AND65/4 neodymium 6.5", vented	
Driver HF	RBN1801 18" pro-ribbon driver	
Cross-over frequency	1000 Hz.	
Connectors	2 x Speakon NL4 input / link	
Physical dimensions	mm	inches
Height	506	19,9
Width	367	14,4
Depth	237	9,3
Weight (approx.)	20 kg	44 lb
Warranty	6 years limited	

A: Alcons Audio B.V.
De Corantijn 69
1689 AN Zwaag
The Netherlands

E: info@alconsaudio.com
W: www.alconsaudio.com
T: +31 (0)229 28 30 90
F: +31 (0)229 28 30 99