



technical specifications MR10

general

- Reference monitor system for critical sound reproduction
- RBN202 pro-ribbon HF driver with ultimate fidelity
- 1:1 non-compressed linear sound reproduction, with ultra-low distortion
- 1:15 dynamic power handling ratio for virtually infinite headroom
- Very wide constant directivity with exceptional imaging
- Stable, analytical reference even after prolonged working hours



description

The MR10 is a reference monitor system, designed for critical sound reproduction in nearfield and midfield applications where ultimate analytical fidelity response is required, combined with an exceptionally wide dynamic range.

The 3-way MR10 consists of the Alcons' proprietary, multiple-patented RBN202 pro-ribbon driver for HF reproduction. Due to the "compression-less" principle and the light-weight moving mass of the pro-ribbon transducer technology, the system has a fully linear response throughout its entire dynamic range with a super-fast transient response.

The 500 W peak power input (for 200 ms, which is 10x the industry standard) results in a 1:15 RMS-to-peak dynamic range, which means in practice a virtually infinite headroom.

Mounted on the HempHorn™ with patented constant

(120-degrees) horizontal directivity, the RBN202 delivers a wide and consistent sound field up to the highest frequencies, which results in a perfect phantom image with true-3D localisation; A very important tool for accurate object placement in immersive systems.

The RBN202 pro-ribbon covers a very wide frequency range to beyond 20 kHz, starting already from 1 kHz, which is well below traditional designs.

Frequencies below 1kHz are taken care of by the custom-designed 5" mid-bass with Active Coil™ for ultra-low distortion MF reproduction; A perfect match with the MHF pro-ribbon technology.

The low frequencies are reproduced by the 10" woofer, also featuring Active Coil™, but in a 3" motor structure, combining ultra-low distortion with a very high headroom.

The 10" is loaded by the direct-drive ScoopVent™ enabling maximum breathing capacity for the cleanest, non-compressed response, down to the lower octaves.

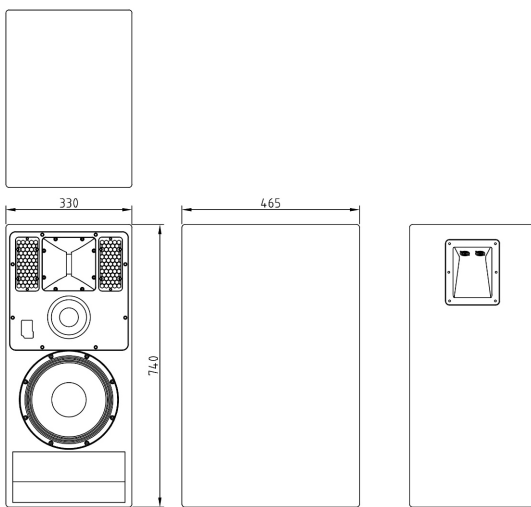
As integral part of the Alcons eco system, the MR10 is to be driven by the ALC amplified loudspeaker controller, either in bi-amp or tri-amp configuration; Through the integrated VHIR™ processing, 192kHz AES3 digital inputs and audiophile amplifier stages,

the ALC makes the MR10 deliver absolute maximum sound quality with utmost operation reliability and flexibility.

Furthermore, this configuration offers also other advantages, such as efficient centralized processing and amplification without difficult accessible electronics; No heat build-up behind a screen, in a baffle-wall or against a ceiling.

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dimensional drawing



technical specifications

Frequency response	29 Hz - 20.000 Hz	(+/- 3 dB)
	26 Hz -	(+/-10 dB)
Sensitivity nominal	87 dB (200 Hz - 10 kHz)	
Nominal impedance	LF 4 ohms, MHF 4 ohms /	
	LF 4 ohms, MF 4 ohms, HF 36 ohms	
Recommended drive	Director6 min.	
Nominal SPL peak	118 dB (Director6 200 Hz - 10 kHz)	
	116 dB (Sentinel3 200 Hz - 10 kHz)	
Dispersion H x V (single)	120° x 40° (@15kHz)	

physical specifications

System	3-way, full range	
Filtering	2-way active, 2-way passive / 3-way active	
Drivers LF	1x AMB10NDAIC-4 10", vented	
Drivers MF	1x AMB5NDAIC-4 5"	
Drivers HF	1x RBN202rs 2" pro-ribbon driver	
Connectors	2x Speakon NL4 input LF + MHF /	
	Speakon NL2 + NL4 input LF + MF + HF	
Physical dimensions	mm	inches
Height	740	29.1
Width	330	13.0
Depth	465	18.3
Weight (approx.)	kg	lb
	27,0	59.5
Warranty	6 years limited	

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