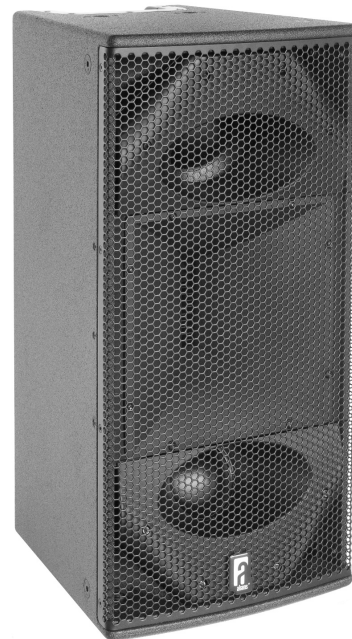




technical specifications GR20/80

general

- Very high performance point-source sound system
- HiFi sound quality at concert Sound Pressure Levels
- 1:1 non-compressed linear sound reproduction, with up to 90% less distortion
- Fully symmetric and coherent horizontal and vertical pattern control
- RBN602 pro-ribbon HF driver with exceptional intelligibility and headroom
- Woofers with Active Coil™ technology for further reduced LMF distortion



description

The GR20 is a 2-way loudspeaker designed as high performance point-source sound system, for both portable as well as permanent applications. The system brings the unsurpassed natural, dynamic and ultra-low distortion Alcons signature sound in a compact, yet very powerful package with a relative small footprint.

The system features the Alcons-proprietary RBN602rs 6" pro-ribbon driver technology, offering a non-compressed, fully linear sound reproduction at any SPL, with up-to-90% less distortion.

Its fast impulse response, "compression-less" principle and flat frequency response enable a 3 to 6dB better gain-before-feedback than traditional systems, resulting in a perfect intelligibility in even acoustically challenging applications.

The pro-ribbon's extreme peak power handling of 1.250W (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 unlimited headroom. The patented (80 x 50-degrees) directivity offers a very controlled and consistent projection up to the highest frequencies for a wide stereo sweet-spot and excellent coverage even in elevated listening areas. The revolvable waveguide provides this projection accuracy also with a horizontally positioned GR20.

The RBN602 driver is mounted in a tight-packed, vertically symmetrical configuration with two mid-bass woofers for optimal acoustical coupling and perfect projection coherency. The custom-designed 10" Neodymium woofers feature Active Coil™ technology for extremely low-distortion LMF reproduction, a perfect match with the MHF pro-ribbon technology.

Their two 3-in. voice-coils in passive-filtered tandem with the pro-ribbon's 6-in. voice coil deliver a very dynamic, high output performance from one single amp channel.

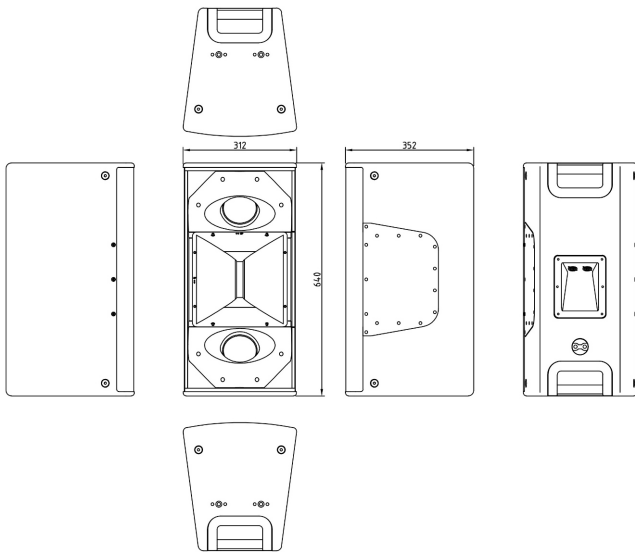
As integral part of the Alcons eco system, the GR20 is to be driven by an ALC amplified loudspeaker controller; Through the factory presets with integrated VHIR™ processing, 192kHz AES3 digital inputs and audiophile amplifier stages, the ALC enables the GR20 to deliver a

natural 1:1 sound quality with maximum output efficiency and utmost operation reliability.

The Signal Integrity Sensing™ pre-wiring ensures complete cable/connector compensation between the GR20 and SIS™ featured ALC; The resulting system damping factor of 10.000 offers a further reduced distortion, regardless of cable length and amplifier impedance load.

technical specifications GR20/80

dimensional drawing



technical specifications

Frequency response	54 Hz - 20.000 Hz	(+/- 3 dB)
	45 Hz -	(+/- 10 dB)
Sensitivity nominal	101 dB (200 Hz - 10 kHz)	
Nominal impedance	8 ohms	
Recommended drive	Sentinel3 min.	
Nominal SPL peak	130 dB (Sentinel3 200 Hz - 10 kHz)	
	135 dB (Sentinel10 200 Hz - 10 kHz)	
Dispersion H x V	80° x 50° or 50° x 80° (@20kHz)	

physical specifications

System	2-way, full-range	
Filtering	passive	
Drivers LF	2x AMB10NDAIC-4 10", vented	
Drivers HF	1x RBN602rs 6" pro-ribbon driver	
Connectors	2x Speakon NL4 input/link	
Physical dimensions	mm	inches
Height	640	25.2
Width	312	12.3
Depth	352	13.9
Weight (approx.)	kg	lb
	26,0	57.3
Warranty	6 years limited	

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