



## technical specifications BC272

### general

- Double-tuned, bass-reflex loaded cardioid-control subwoofer system
- Single 15" woofer with 12" woofer in cardioid arrangement
- Large vents for improved breathing and low port compression
- Low impedance for efficient amplifier loading
- SIS pre-wired for very high damping and further reduced distortion (with ALC)
- Selectable cardioid patterns with up to 42dB rearward rejection



### description

The BC272 is a self-contained, medium-output cardioid subwoofer system for both permanent and portable ground-stacked applications. It is designed to offer a tight and accurate sub-bass response, for low-frequency extension of any Alcons pro-ribbon system.

By means of a front and rear located woofer configuration, in combination with dedicated processing, the system offers selectable cardioid low-frequency pattern control and excellent rear rejection (up to 42dB), without the need for additional cabinets.

On the front side, one 15" long-excursion woofer with 4-in. voice-coil with double-spider and demodulation ring, is mounted in a front-loaded configuration.

On the rear side, a single 12" long-excursion woofer with 4-in. voice-coil with double-spider, is mounted in a "front"-loaded configuration.

The large bass reflex ports on the front and the rear side enable excellent breathing capacity, increasing overall output while minimising port-compression.

The relatively low-weight, but rigid enclosure is finished in Durotect™ scratch-resistant coating and is fitted with 2 handles for easy logistics and an M20 stand mount flange(road-version).

The BC272 is powered and controlled by the ALC amplified loudspeaker controller. Driven by the ALC, the BC272 delivers maximum sound quality and output power with long-term operation reliability. Through the integrated processor, the ALC offers BC272-specific drive processing with response optimisation, dedicated power and excursion protection, and hybrid filtering. The preset library contains cardioid settings for maximum rear-/side-ward attenuation.

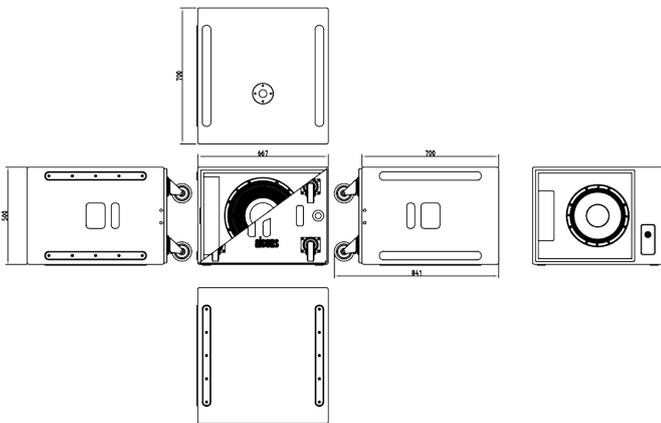
The 4 ohms system impedance, makes for a very efficient amplifier loading; Thus enabling maximum output from a single, very compact configuration.

Through the SIS™ (Signal Integrity Sensing) circuit, the cable-length and connector resistance between the BC272 and ALC is completely compensated (system damping factor >10.000), for further increased accuracy and controlled cone-travel, resulting in a tighter sub and bass response.

The BC272 is available in road-version and installation ("i") version, without handles, wheel dolly board and M20 threaded stand mount flange. It is finished in Durotect™ scratch-resistant coating; Through the Architect Color Option™ program, the BC272 can be finished in any RAL™ color.

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### dimensional drawing



Frequency response	40 Hz - 150 Hz (+/- 3 dB)
	34 Hz - (+/- 10 dB)
Sensitivity nominal	97 dB (40 - 100 Hz)
Nominal impedance	4 ohms/front, 4 ohms/rear
Recommended drive	Sentinel3 min. 1 pce. per 2 ch
Nominal SPL peak	127 dB (Sentinel3 40 Hz - 100 Hz)
	132 dB (Sentinel10 40 Hz - 100 Hz)
	137 dB (comparative)
Dispersion H x V	(hyper)cardioid / omni (rear not connected)

### physical specifications

System	subwoofer, bass-reflex front + rear	
Drivers LF	1 x AW15.4/4 15" (front)	
	1 x AW12 4/4 12" (rear)	
Connectors	1x Speakon NL8 input	
Physical dimensions	mm	inches
Height	500	19.7
Width	667	26.3
Depth	700	27.6
Weight (approx.)	kg	lb
BC272	71.0	156.5*
BC272i	63.0	138.9
Warranty	6 years limited	
	*incl. wheel board	

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