



ARCS II

CONSTANT CURVATURE WST® ENCLOSURE

The ARCS II features one 15" neodymium LF driver in a bass-reflex tuned enclosure and one 3" neodymium diaphragm compression driver coupled to a DOSC® waveguide. The ARCS II is based on an active 2-way design with a nominal impedance of 8 ohms for both the HF and the LF section. The ARCS II cabinet is made of first grade Baltic birch plywood to ensure maximum acoustical and mechanical integrity.

The ARCS II enclosure operates over the 50 Hz to 20 kHz nominal frequency bandwidth. This response can be lowered down to 25 Hz with the addition of the SB28 subwoofer.

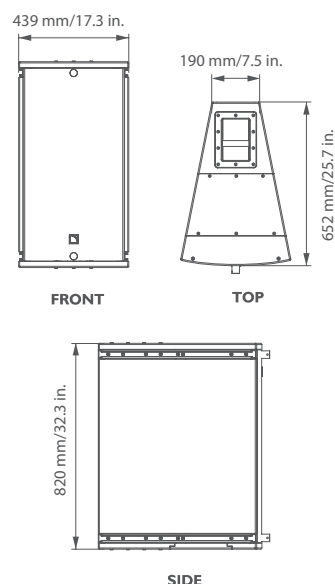
The DOSC® HF waveguide generates a 22.5° symmetric x 60° asymmetric (-20°/+40°) directivity pattern. These values correspond either to the horizontal x vertical coverage angles, for an ARCS II enclosure standing vertically, or to the vertical x horizontal coverage angles, for an ARCS II enclosure in the radial orientation.

The ARCS II rigging system allows assembling a horizontal or vertical array with a constant curvature. The DOSC® waveguide in the HF region allows the system to be arrayed without breaking the inter-element acoustic coupling. The WST® (Wavefront Sculpture Technology) criteria are then fulfilled, so that such an array can be qualified as a true line source. An ARCS II line source provides a smooth tonal response and a coverage that is free of secondary lobes over the entire frequency range.

The ARCS II enclosure is exclusively driven and bi-amplified by the LA8 amplified controller. This one ensures active system linearization, intelligent transducer protection, and optimization for the loudspeaker system. With a single factory preset designed to be used in the different operation modes of the ARCS II, the performance of the system will depend upon the choice of the physical system configuration.



Usable bandwidth (-10dB)	50 Hz - 20 kHz ([ARCS II] preset)	
Nominal directivity (-6dB)	Horizontal: 22.5° symmetric x N elements Vertical: 60° asymmetric (-20°/+40°)	
Maximum SPL ¹	140 dB ([ARCS II] preset)	
RMS power handling capacity	LF: 600 W	HF: 100 W
Components	LF: 1 x 15" neodymium weather-resistant with 4" coil HF: 1 x 3" neodymium diaphragm compression driver Nominal impedance: LF = 8 ohms, HF = 8 ohms	
Rigging ²	LIFTBAR certified for 6 ARCS II in a horizontal array ARCBUMP certified for 4 ARCS II in a vertical array	
Physical data	W/w x H x D: 439/190 x 820 x 652 mm 17.3/7.5 x 32.3 x 25.7 in Weight (net): 50 kg / 110 lbs Connectors: 2 x 4-pin SpeakON® Cabinet: Baltic birch plywood Finish: Grey brown, RAL 8019® Front: polyester powder-coated steel grill, Airnet® acoustically neutral fabric Rigging elements: steel with dual coating (zinc and polyester powder)	



¹ Peak level measured at 1m under free field conditions using 10 dB crest factor pink noise with specified preset and corresponding EQ settings.

² Mechanical data and limits for installation are specified in SOUNDVISION software which is designed to help with L-ACOUSTICS® product implementation.