AcousticPerformance Series

AP-5122

The professional high-power installation loudspeaker system shall be a two-way full-range design incorporating a 12-inch (305 mm) low frequency transducer with 3-inch (76 mm) voice coil and a 3.0 inch high-frequency ferrite compression driver mounted to an axisymmetric waveguide that matches the woofer beamwidth through the crossover to ensure flat sound-power response. The loudspeaker system shall be capable of operation in either passive mode or bi-amped with a recommended crossover frequency of 950 Hz.

The loudspeaker system shall meet the following performance criteria: frequency response of 48 Hz to 18 kHz ±10 dB, measured on-axis; sensitivity (1W @ 1m) of 95 dB SPL in free field; maximum rated SPL at 1m of 122 dB continuous and 128 dB peak; rated power capacity of 60V or 550W (passive) based on a two-hour power test using IEC60268 noise; recommended amplifier power of 1100 W (passive); nominal impedance of 8 Ohms. The loudspeaker system's nominal coverage shall be axisymetric at 90 degrees in both vertical and horizontal planes.

The loudspeaker system input connectors shall include both an NL4 Speakon connector and covered barrier strip terminals. The trapezoidal loudspeaker enclosure shall be constructed of 15-ply Baltic birch plywood and finished in either of two RAL colors: black (9011) or white (9010). The front of the full range system shall be protected by a 16-Gauge powder-coated steel grille that is lined with acoustically transparent backing and is free of logos or other embellishment. The enclosure shall have fifteen M10 threaded-insert mounting points (two on each side, three on the back, and four each on the top and bottom) for suspension via eye bolts as well as mount points for an optional yoke bracket.

The loudspeaker system enclosure shall be 26 in (660 mm) high, 15 in (381 mm) wide, and 13 in (330 mm) deep. The loudspeaker shall have a net weight of no more than 65 lb (29.5 kg).