AcousticPerformance Series

AP-5102

The professional high-power installation loudspeaker system shall be a two-way full-range design incorporating a 10-inch (254 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 60 Hz to 18 kHz ±10 dB, measured on-axis; sensitivity (1W @ 1m) of 94 dB SPL in free field; maximum rated SPL at 1m of 121 dB continuous and 127 dB peak; rated power capacity of 54V or 450W (passive) based on a two-hour power test using IEC60268 noise; recommended amplifier power of 900W (passive); nominal impedance of 8 Ohms. The loudspeaker system's nominal coverage shall be axisymmetric at 105 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 15 M10 threaded-insert mounting points for suspension via eye bolts as well as mount points for an optional yoke bracket.

The loudspeaker system enclosure shall be 22 in (559 mm) high, 12 in (305 mm) wide, and 10.5 in (267 mm) deep. The loudspeaker shall have a net weight of no more than 48 lb (21.7 kg).

The two-way full-range loudspeaker system shall be the QSC Audio Products AP-5102.