AcousticPerformance Series

AP-5152

The professional high-power installation loudspeaker system shall be a two-way full-range design incorporating a 15-inch (381 mm) low frequency transducer with 4-inch (102 mm) voice coil and a 3.0 inch (76 mm) 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 44 Hz to 18 kHz ±10 dB, measured on-axis; sensitivity (1W @ 1m) of 96 dB SPL in free field; maximum rated SPL at 1m (passive) of 123 dB continuous and 129 dB peak; rated power capacity (passive) of 65 V or 650 W based on a two-hour power test using IEC60268 noise; recommended amplifier power (passive) of 1250 W; nominal impedance of 8 Ohms. The loudspeaker system's nominal coverage shall be axisymetric at 75 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 32 in (813 mm) high, 17.5 in (445 mm) wide, and 15.2 in (386 mm) deep. The loudspeaker shall have a net weight of no more than 80 lb (36.2 kg).

The two-way full-range loudspeaker system shall be the QSC Audio Products AP-5152.