AcousticDesign Series

AD-S10T

The professional small format, surface mount loudspeaker system shall be a two-way full-range design utilizing Directivity Matched Transition (DMT) to match low and high frequency coverage at the crossover point. The loudspeaker low-frequency transducer shall be an 10-inch (254 mm) woofer with a weather-resistant paper cone and a 2.5-inch voice coil. The loudspeaker high-frequency transducer shall be a 1-inch (25 mm) compression driver with a 1.4-inch voice-coil coupled to a baffle-integrated waveguide. The loudspeaker system shall be capable of operation in direct low-impedance mode or over a 70/100V distributed audio line via a built-in low-saturation transformer.

The loudspeaker system shall meet the following performance criteria: effective frequency range of 50 Hz to 19 kHz (free-field, -10 dB from on-axis sensitivity); broad-band sensitivity of 92 dB SPL (on-axis, free-field sensitivity, 2.83V, 1 m); maximum rated SPL (calculated) of 116 dB continuous and 122 dB peak; rated power capacity of 45V or 250W (two-hours, IEC60268-1 noise); recommended amplifier power of 500W; rated impedance of 8 Ohms. The loudspeaker system's nominal coverage angle shall be 90 degrees (-6 dB) axisymmetric.

The loudspeaker system connectors shall be mounted on a sealed input panel including a Euroblock connector and parallel output terminals, and shall be fitted with a protective weather cup. The loudspeaker enclosure, which shall meet IEC60529 IP-54 specifications for dust and splash resistance, shall be constructed of ABS polymer 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 powder-coated aluminum grille that is free of logos or other embellishment.

The enclosure shall be fitted with an integral mounting plate for a mounting system (QSC X-Mount) that allows the speaker to be rotated in four orientations and includes a tab whose removal makes the loudspeaker theft-resistant. The enclosure shall also have four M10 threaded-insert mounting points (one on the top and three on the bottom) for suspension via eye bolts as well as mount points for an optional yoke bracket.

The enclosure shall be 20.3 in (516 mm) high, 12.5 in (318 mm) wide, and 11.7 in (298 mm) deep. The loudspeaker system shall have a net weight of 33 lb (15 kg).

The two-way full-range loudspeaker system shall be the QSC Audio Products AD-S10T.