**ArenaMatch Utility AMU108 outdoor-rated loudspeaker**

ARCHITECTS’ & ENGINEERS’ SPECIFICATIONS

JULY 2023

The outdoor-rated, 2-way full-range, small-format loudspeaker shall contain a 2-inch titanium-diaphragm neodymium compression driver and a single 8-inch cone transducer with 2-inch voice coil. The loudspeaker shall contain an internal passive crossover network with 70/100V transformer.

The loudspeaker shall meet the following performance specifications: On-axis system frequency range shall be 80 Hz to 18 kHz (-10 dB) with recommended equalization presets. System sensitivity shall be 91 dB SPL in free field with 1 W input with the loudspeaker capable of producing peak output of 120 dB SPL on axis at 1 meter, with recommended equalization. The waveguide shall provide nominal high-frequency coverage of 90° horizontal × 60° vertical and may be rotated 90° to allow the widest dispersion in either horizontal or vertical mounting orientations. The system long-term power rating shall be 200 W with nominal input impedance of 8 ohms. Power handling will be rated using IEC 268-5 pink noise, 6-dB crest factor, for 500 hours, with recommended EQ presets.

The loudspeaker shall be constructed of exterior-grade plywood, protected by a two-part polyurea industrial coating. A three-layer stainless steel, powder-coated grille, water-resistant woofer cone coating, and molded input cover shall be provided to allow IEC-60529 environmental rating of IP55, suitable for direct-exposure outdoor installation. The enclosure will incorporate two (2) M8 threaded inserts (one per side) for connection to accessory U-brackets plus four (4) M8 threaded inserts on the enclosure rear surface (127 × 70 mm pattern) for accessory pan-and-tilt brackets. A single barrier strip terminal shall accept wiring from 10 to 18 gauge. An integrated rotary switch will control transformer tap settings of 5, 10, 20, 40, or 80 W for 70V and 10, 20, 40, or 80 W for 100V operation. The loudspeaker shall be available with black or white finish (paintable). Loudspeaker dimensions (H × W × D) shall be 235 × 470 × 279 mm (9.3 × 18.5 × 11.0 in) and net weight shall be 10.6 kg (23.3 lb).

The outdoor-rated, 2-way full-range small-format loudspeaker shall be the ArenaMatch Utility AMU108 model.