



SM890i-WX

Architectural Specifications

The loudspeaker shall consist of one 203 mm (8.0 in.) low-frequency transducer and one 36.0 mm (1.42 in.) compression driver. The system shall include a crossover network and a 150-watt low-insertion loss transformer installed in the enclosure. The low frequency voice coil diameter shall be 34 mm (1.34 in.).

Performance specifications for a typical production unit shall be as follows: Useable frequency response shall extend from 63 Hz – 22 kHz (-10 dB). Measured sensitivity (2.83 volt, 1 meter) shall be at least 93 dB. The speaker shall have a nominal impedance of 8 ohms. The speaker shall be available for 25-, 70.7- and 100-volt modes and shall include a six-position tap switch with a transformer bypass position. The frequency-dividing network shall have a crossover frequency of 2.5 kHz with slopes of 12 dB per octave (2nd order) for both low- and high-pass filters. Rated power capacity shall be at least 150 watts continuous (RMS) and conform to EIA426B testing. Maximum continuous output at 1 meter shall be 115 dB.

The low-frequency transducer shall have a treated fiber cone with treated cloth surround. The high-frequency transducer shall be an offset compression driver with a proprietary 110° x 80° BroadBeamHP® waveguide. The high-frequency transducer shall be bayonet mounted to allow the horn to be rotated 90 degrees to tailor the coverage pattern to the venue.

Installation for the speaker shall be by a tool-free, low profile bracket with an integrated internal wedge cam for stable and precise aiming from 0 to 90 degrees. Mounting hardware shall be constructed of die-cast aluminum.

The enclosure shall be constructed of injection-molded ABS with glass fiber reinforcement. The grille shall be powder-coated steel with a tool-free locking system. Overall dimensions including the mounting plate and bracket for the SM890i are 477.0 mm (18.78 in.) tall by 295.9 mm (11.65 in.) wide by 390.4 mm (15.37 in.) deep.

The system shall be the SM890i-WX for both low- and high-impedance applications.