DesignMax DM5P pendant loudspeaker

ARCHITECTS' & ENGINEERS' SPECIFICATIONS

JULY 2023

The loudspeaker shall contain a coaxial two-way 5.25-inch woofer and 1-inch tweeter mounted within the Dispersion Alignment system.

The loudspeaker shall meet the following performance specifications: On-axis system frequency response shall be 80 Hz to 20 kHz (-3 dB) with the use of recommended active equalization. The loudspeaker sensitivity shall be 87 dB SPL in whole-space environment with Bose Professional EQ voicing with 1 W input at 1 meter. The long-term power handling rating shall be 60 W (AES test methodology using IEC system noise, 2-hour duration). Maximum continuous output shall be 105 dB SPL and the maximum peak output shall be 111 dB SPL, both in whole­space environment with Bose Professional EQ voicing. The nominal coverage pattern shall be 120° conical at 1–4 kHz.

The loudspeaker shall be constructed of an engineered-plastics baffle and enclosure. The loudspeaker shall consist of plastic materials that are resilient to cooking oil exposure. The loudspeaker shall be in compliance with the following safety standards; UL1480A, UL2239. The transducers shall be located behind a perforated steel grille with a powder­ coated finish that is rotatable. The loudspeaker shall be available in black or white and shall be paintable. Input connectors shall be a Euroblock 6-pin connector with loop-through, mounted on top. The loudspeaker shall have a nominal rated impedance of 8 ohms and shall be wired in parallel with a line voltage matching (stepdown) transformer with a level selector appropriate for output taps of 3, 6, 12, 25, 50 W and bypass (8 ohms). The loudspeaker input connections shall allow for direct connection to 70-volt, 100-volt or low-impedance amplifiers. The loudspeaker shall include a suspension cable. The cable shall be an adjustable Gripple cable at a length of 4.57 m (15.0 ft).

Loudspeaker dimensions shall be 259 × 300 mm (10.2 × 11.8 in) and net weight shall be 4.1 kg (9.1 lb) with grille.

Warranty shall be 5 years. The loudspeaker shall be the DesignMax DM5P pendant loudspeaker.