DesignMax DM2C-LP in-ceiling loudspeaker

ARCHITECTS' & ENGINEERS' SPECIFICATIONS

OCTOBER 2019

The full-range loudspeaker shall contain a single 2.25" full-range transducer.

The full-range loudspeaker shall meet the following performance specifications: On-axis system frequency response shall be 85 Hz to 19 kHz (-10 dB) with the use of recommended active equalization. The loudspeaker sensitivity shall be 84 dB SPL in half-space environment with Bose EQ voicing with 1 W input at 1 meter. The long-term power handling rating shall be 20 W (AES test methodology using IEC system noise, 2-hour duration). Maximum continuous output shall be 97 dB SPL and the maximum peak output shall be 103 dB SPL, both in half-space environment with Bose EQ voicing. The nominal coverage pattern shall be 180° conical at 1-4 kHz.

The loudspeaker shall be constructed of an engineered-plastics front baffle with a low-profile integrated steel formed enclosure. The loudspeaker shall consist of PC-PBT plastic materials that are resilient to cooking oil exposure. The loudspeaker shall be plenum rated for use in air handling spaces and in compliance with the following safety standards; UL1480A, UL2043. The transducers shall be located behind a perforated steel grille with a powder-coated finish that is magnetically attached. The loudspeaker shall contain a proprietary mounting system including spring-loaded mounting arms. 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, located on the front baffle. The loudspeaker shall have a nominal rated impedance of 16 ohms and shall be wired in parallel with a line voltage matching (stepdown) transformer with a level selector appropriate for output taps of 1.2, 2.3, 4.5, 9 Watts and Bypass (16 ohms). The loudspeaker input connections shall allow for direct connection to 70-volt, 100-volt or low-impedance amplifiers. Loudspeaker backcan dimensions shall be 156 x 99 mm (6.14 x 3.91 in) and net weight shall be 1.63 kg (3.6 lbs) with grille. Outward front grille dimensions shall be 198 mm (7.79 in).

Warranty shall be 5 years. The loudspeaker shall be the DesignMax DM2C-LP in-ceiling loudspeaker.