



SM12CXT

High Performance Coaxial Loudspeaker



SM12CXT-B

General Description

SM Series loudspeakers offer quality sound reproduction and contemporary styling. The SM12CXT features the 12CXT60—a 250W loudspeaker that combines a 12" diameter, low frequency transducer and a 1" exit compression driver. The speaker has a curvilinear, treated-paper cone for lower harmonic distortion, and a built-in crossover network for proper frequency transition between the two reproducers. The low frequency transducer and the high frequency driver feature permanently aligned voice coils for low distortion performance. The copper coils have Polyimide voice coil formers.

The SM12CXT features a wood enclosure with a metal grille. Internal hardware, for flying, includes multiple (12) ¼"-20 inserts for overhead suspension in almost any orientation.

A 90° conical pattern (2kHz octave band) and amazing efficiency make the SM12CXT a perfect choice for a wide variety of applications including school auditoriums, gymnasiums, cafeterias, church sanctuary systems, and more.

This perforated top panel is designed for use on the Atlas Sound FMA and 700 series floor mount vertical equipment racks.

Specifications

Power Rating (Rms)	250 Watts
Frequency Response	55Hz – 15kHz (± 5dB)
Sensitivity (1W/1M)	99dB
Power Taps	7.5, 15, 30, & 60 Watts & 8Ω
Height	19" (483mm)
Width	14½" (368mm)
Depth	14⅞" (357mm)
Weight	39 Lbs (17.7kg)
Dispersion Angle	90°
Finish	Rough-Coat, Black or White

Features

- High Performance Atlas Sound Compression Driver Coaxial Loudspeaker in Versatile, Flyable, Wood Enclosure
- Multiple (12) ¼"-20 Inserts, Providing Fly Points for a Variety of Mounting Configurations
- Includes Internal, High Efficiency 60 Watt 70.7V/100V Transformer (May Be Bypassed For 8Ω Operation)
- Barrier Strip Input For 70.7V/100V/8Ω or Parallel 4 Pole Speak-On Input for 8Ω Operation Only
- Unique Input Panel Allows Use of Standard 4" Square Box Cover (Raco 753 or Eq.) For Applications Where Flex Conduit is Required for Termination
- Fuse Protection for Low and High Frequency Drivers
- Attractive, Heavy-Duty Grille Assembly
- Durable Black or White, Rough-Coat Finish
- Optional Brackets for Wall Mounting
- Pre-Drilled With T-Nut Inserts for Omnimount™ Bracket Wall Mounting

Applications

The SM12CXT is optimized for high ceiling applications such as arenas, convention centers, gymnasiums, and auditoriums. The extreme high efficiency and higher "Q" of the 12CX with its powerful 12" speaker and 1" exit compression driver, provides the increased available SPL often required in these high ceiling applications. In 70.7V/100V systems this high efficiency can also result in lower tap settings.

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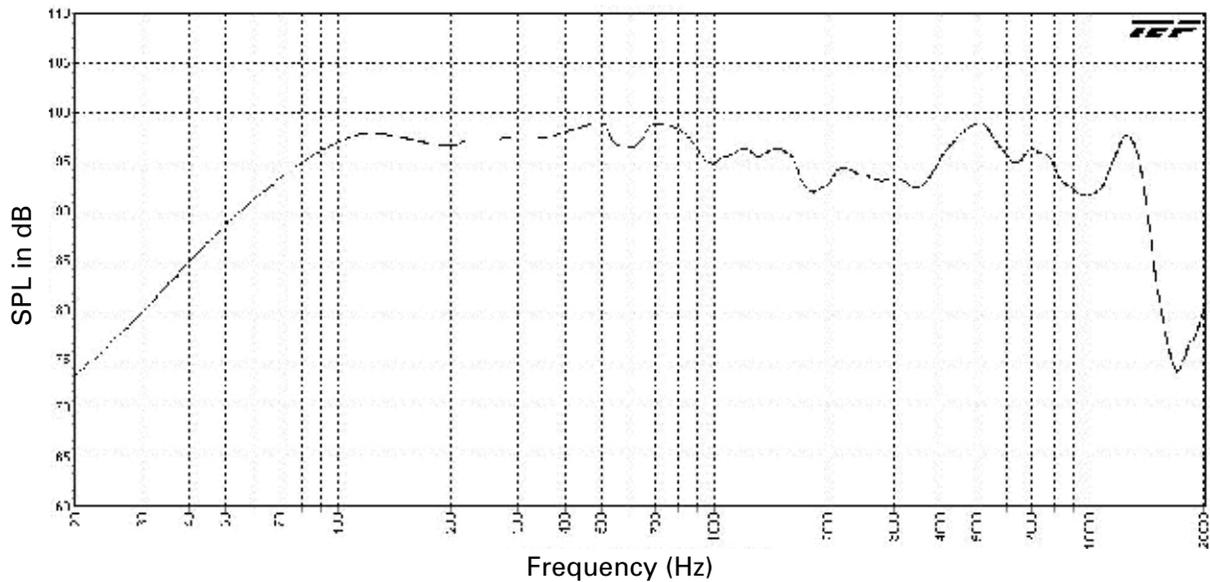
Architect and Engineer Specifications

The loudspeaker system shall be Atlas Sound Model SM12CTX. Assemblies shall consist of two-way woofer and tweeter assembly within a wood enclosure. The 250 Watt systems shall have a 12.857" (310mm) woofer constructed of treated paper and a 1" (51mm) titanium diaphragm compression driver. Each system shall be complete with a 60 Watt 70.7V/100V transformer. A barrier strip shall allow access to the 7.5, 15, 30, and 60 Watt taps of the transformer. The speaker shall be mounted in a wood enclosure with a metal grille. The enclosure shall provide multiple (12) ¼"-20 inserts for mounting. Fuse protection for high and low frequency drivers shall be included.

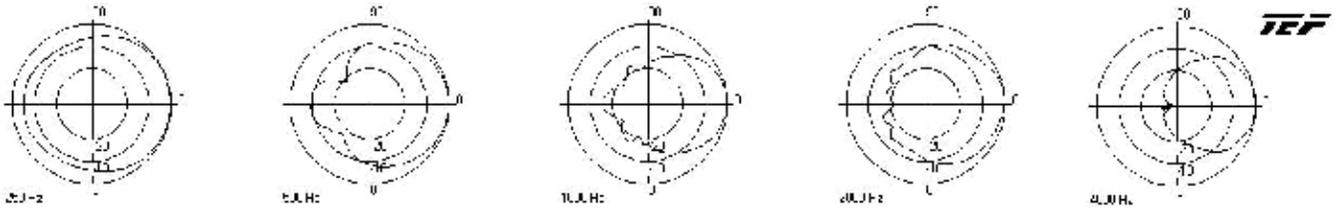


SM12CTX-W
Terminals

SM12CXT Frequency Response



SM12CXT Polars (Normalized to Zero on Axis) (-6dB)



SM12CXT Beamwidth (-6 dB)

