

AC92-1

product group: **Advanced Contractor's Series**
system type: **12"x1" POINT-SOURCE COAXIAL**

construction

The AC92-1 is a full range, 2-way point-source coaxial system in a trapezoidal, computer optimized enclosure. Loudspeaker complement consists of a single proprietary coaxial device. Mechanical attachment aligns the acoustic center of the high frequency driver with that of the low frequency transducer, distributing perfectly aligned high and low frequency energy along an 80° conical coverage pattern. An optimized crossover network is optionally available. Eyebolt receptacles are located on the top to facilitate installation. The enclosure is constructed of durable 12-ply void-free birch laminate, dadoed for strength and durability. Perforated steel is employed for frontal protection of the loudspeaker complement.

Features:

- Coaxial Point-Source Design**
- Integrated Eyebolt Suspension**
- Optimized Internal Crossover**
- 12 ply Dadoed Construction**
- Durable ProCoat™ Elastomeric Finish**



Flyware



Trapezoidal

OPTIONAL:



Available without Crossover

the idea behind it

The AC92-1 was designed as a compact, full range system for smaller scale environments where high quality, high SPL sound is needed from an extraordinarily small enclosure. The AC92-1 takes advantage of McCauley's proprietary MCX coaxial transducer technology, which allows the AC92-1 to outperform conventional systems many times its size. Custom finishes are available.

Applications:

- House of Worship**
- Restaurants / Bars**
- Dance Clubs**

performance parameters

power handling	400w RMS
frequency response	60Hz - 17kHz
nominal impedance	
Low	8Ω
High	16Ω
sensitivity	
Low	96db
High	109db
maximum output SPL	
Continuous	123db
Peak	129db
recommended crossover	1.5kHz
directivity/coverage	80°x80° (HxV)

physical properties

weight	50.3lbs / 22.7kgs
dimensions	
inches	16H x 14.5W x 12D
centimeters	36.8H x 36.8W x 30D
finish	ProCoat™
enclosure material	5/8" 12-ply Finland Birch
construction	rabbet & dadoed
suspension	removable eyebolt
connectors	binding posts
transducers	(1) 12"x1" Full Range Coaxial Transducer

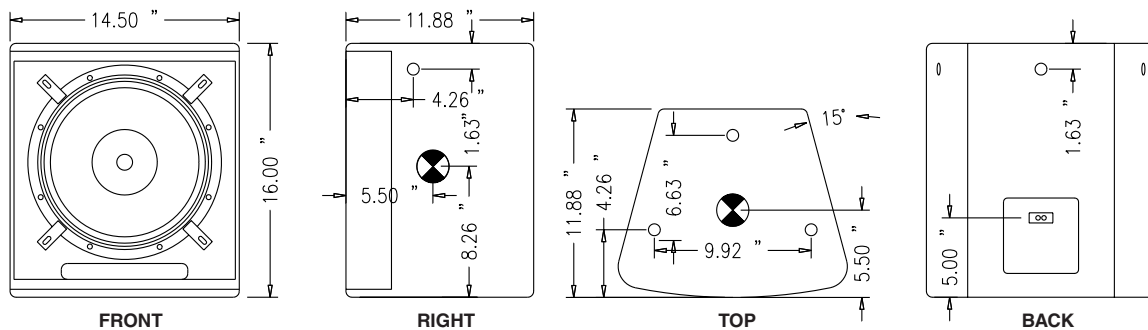
technical specifications

AC92-1
2-WAY FULL RANGE COAXIAL

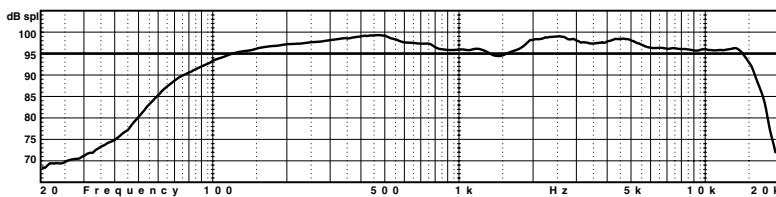
architectural specifications

The loudspeaker shall be a two-way type with one 12" Full Range 2 Way Coaxial Point Source driver mounted in a bass reflex enclosure. The low frequency section shall contain one MCX 12" "Focused Field" driver with a power handling capacity of 300 watts RMS and shall have a sensitivity of 96 dB SPL measured at 1meter with 2.83 volts into a nominal 8 ohm load. The high frequency section shall consist of one MCX 1" exit compression driver and horn combination with a power handling capacity of 100 watts RMS and a sensitivity of 109 dB SPL measured at 1meter with 2.83 volts into a nominal 16 ohm load. The combined loudspeaker system shall be capable of 123 dB SPL continuous and 129 dB SPL peak maximum output. The loudspeaker system shall have an effective operating range of 60 Hz to 17 kHz +/- 3 dB (60Hz to 20 kHz -10 dB). The loudspeaker shall offer symmetrical coverage angles of 80° Horizontal, and 80° Vertical. The enclosure shall weigh a total of 50.3 lbs. and shall measure 16 inches tall, 14.5 inches wide (9.25 inches at rear), 12 inches deep. Shall have a flat top and bottom, and the sides shall be angled at 15° from front to back forming a trapezoidal shape. The enclosure shall be made of 12-ply birch hardwood and shall have a weather and wear resistant ProCoat™ elastomeric finish. Electrical connections shall be made via standard binding posts or barrier strips. An optional optimized passive crossover network shall be mounted internally. The loudspeaker shall be the McCauley AC92-1.

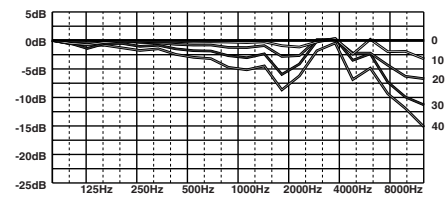
dimensional illustrations



response data



on axis response (2.83v@1m, free-field conditions)



off axis response (normalized to on axis response)

polar data

Outer ring is +6dB, each ring represents an additional -6dB down.
For vertical plots, 90° represents the top of an enclosure, 270° is the bottom.

