technical specifications

2-WAY FULL RANGE CONTRACTOR SYSTEM

AC12-1

product group: **Advanced Contractor's Series**
system type: **Direct Radiating 12"+ 1" HFD**

construction

The AC12-1 is a 2-way full range system in a trapezoidal, computer optimized enclosure. Loudspeaker complement consists of an 12" LF woofer in a ported sub-enclosure, and a single 1" compression driver mounted on a 90°x80° rotatable waveguide. A factory optimized internal crossover is installed to ensure balanced output between the HF and LF components. The enclosure is constructed of durable 12-ply void-free birch laminate, dadoed for strength and durability. Integrated eyebolt receptacles are located on the top and sides to facilitate installation. Perforated steel is employed for frontal protection of the loudspeaker complement.

Features:

- **Factory-Optimized Internal Crossover**
- **McCauley Performance Class Componentry**
- **Integrated Eyebolt Suspension**
- **9 ply Dadoed Construction**
- **Durable ProCoat™ Elastomeric Finish**

Flyware

Trapezoidal

OPTIONAL:

Available without Crossover

the idea behind it

The AC12-1 was designed as a compact, multi-purpose, dedicated full range system for installation in small to medium sized venues. Eyebolt receptacles allows easy vertical installation. Use an optional AC18 subwoofer for extra low frequency impact. This system integrates with other McCauley SA™ and AC™ products, offering consistent coverage and a uniform appearance.

Applications:

- **House of Worship**
- **Dance Club Sound**
- **Live Club Installation**
- **Auditoriums & Gymnasium**

performance parameters

power handling	**450w RMS**
frequency response	**50Hz - 20kHz**
nominal impedance	
Low	**8Ω**
High	**16Ω**
sensitivity	
Low	**95db**
High	**111db**
maximum output SPL	
Continuous	**129db**
Peak	**132db**
directivity/coverage	**90°x80° (HxV)**

physical properties

weight	**70lbs / 31kgs**
dimensions	
inches	**28H x 16W x 14D**
centimeters	**71H x 40W x 35D**
finish	**ProCoat™**
enclosure material	**5/8" 12-ply**
construction	**rabbet & dadoed**
suspension	**integrated eyebolt**
connectors	**binding posts**
transducers	**(1) 12" LF** **(1) 1"HF Driver**
recommended subwoofer	**AC15, AC18, AC28**

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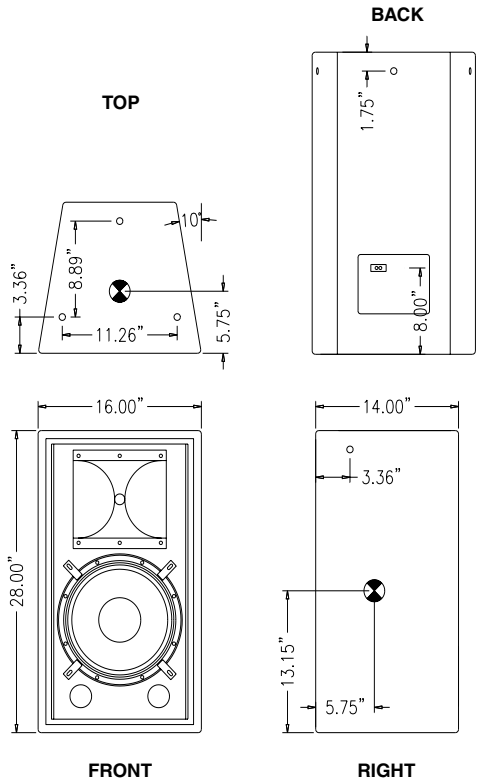
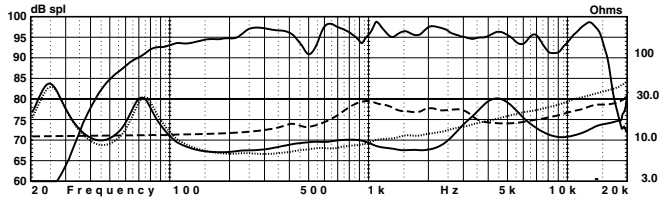
dimensional illustrations



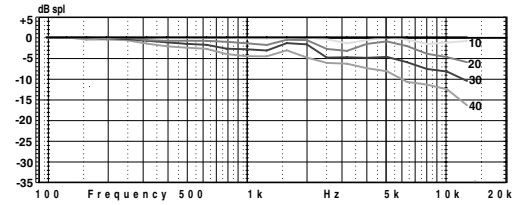
architectural specifications

The loudspeaker shall be a two-way type with one 12" low frequency driver mounted in a bass reflex enclosure and one high frequency horn flare utilizing a 1" throat compression driver. The low frequency section shall contain one 12" "Focused Field" driver with a power handling capacity of 350 watts RMS and shall have a sensitivity of 98 dB SPL measured at 1 meter with 2.83 volts into a nominal 8-ohm load. The high frequency section shall consist of one 1" exit compression driver and horn combination with a power handling capacity of 100 watts RMS and a sensitivity of 111 dB SPL measured at 1 meter with 2.83 volts into a nominal 16 ohm load. The combined loudspeaker system shall be capable of 128-dB SPL continuous and 131 dB SPL peak maximum output. The loudspeaker system shall have an effective operating range of 60 Hz to 17 kHz +/- 3 dB (50Hz to 20 kHz -10 dB). The loudspeaker shall offer coverage angles of 90o Horizontal, and 80o Vertical. The enclosure shall weigh a total of 70 lbs. and shall measure 28 inches tall, 16 inches wide (12 inches at rear) and 14 inches in depth. The enclosure sides shall be angled at 15o from front to back forming a trapezoidal shape. The enclosure shall be made of 12-ply void-free birch hardwood and shall have a weather and wear resistant ProCoat^{tm} elastomeric finish. The loudspeaker shall have built in 3/8 inch 'eye bolt' points to allow ceiling suspension. Electrical connections shall be made via standard binding posts or barrier strips. An optimized passive crossover network shall be switchable between full range and biamp modes. The loudspeaker shall be the McCauley AC12-1.

response data



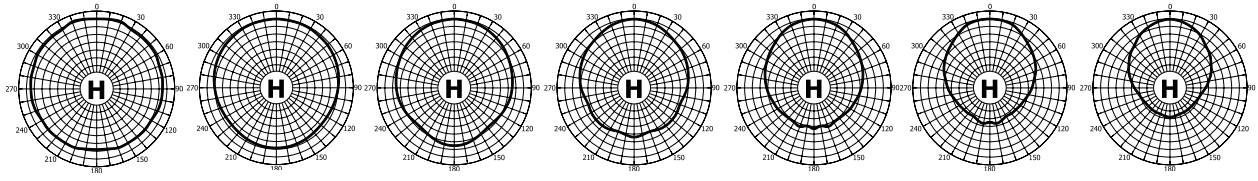
on axis response (2.83v@1m, free-field conditions) / impedance

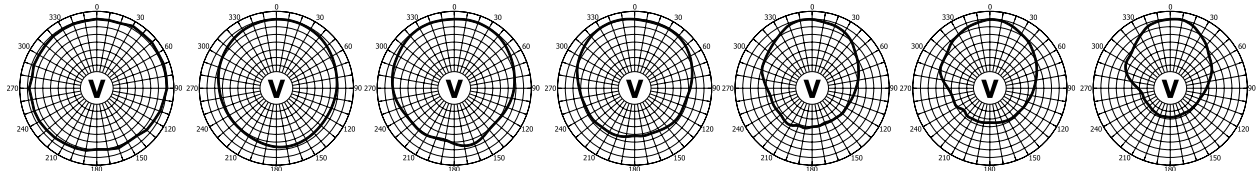


off axis response (normalized to on axis response)

polar data

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





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