

TECHNICAL SPECIFICATIONS

AC75

Product Group: Installation Group
System Type: 2-Way, 1" x 5.25", 90°x90°

FEATURES & ADVANCES

- All-Weather, UV-Resistant, Molded ABS Enclosure
- Internal 70V Multi-Tap Transformer
- Included Color Matched U-Bracket

PRODUCT DESCRIPTION

The AC75 is a compact, high output, and weather resistant passive loudspeaker designed for permanent installations. The AC75 is ideal for use in smaller venues such as houses of worship, theaters, shopping malls, or in restaurants, lounges and bars. The AC75 delivers excellent sound quality at high foreground levels and is designed for both horizontal and vertical installation. It is housed in a durable UV-resistant, paintable, all weather enclosure that is available in either black or white and features an internal multi-tap transformer which allows 70V operation and direct 8 ohm bypass.

The AC75 features a treated direct radiating 5.25" cone loudspeaker and a 1" direct radiating high frequency driver. Unlike most compact loudspeakers, the AC75 has a bass reflex enclosure which gives it an improved low frequency response. The integrated 70V line matching transformer allows for parallel connection of multiple AC75 loudspeakers in distributed installations. The installer and system designer have a choice of 4 sensitivity settings (7.5W, 15W, 25W, and 8 ohm bypass) selected via a rotary switch located on the rear jack panel of the enclosure.

MOUNTING & RIGGING

Included with the AC75 is a heavy gauge zinc plated and paint matched U-bracket for permanent installation. Threaded fasteners are available on the rear of the enclosure and can be used with optional ball-mount hardware.

AMPLIFICATION & PROCESSING

One channel of discrete amplification and signal processing is required for this product. The preferred signal processors for the AC75 is the McCauley M Series family of loudspeaker controllers. The System Design Group can help in creating a complete amplification and signal processing solution.



APPLICATIONS

- Houses of Worship
- Performing Arts Centers
- Restaurants
- Theme Parks
- Auditoriums
- Theatrical Sound Design
- Shopping Malls
- Sports Facilities

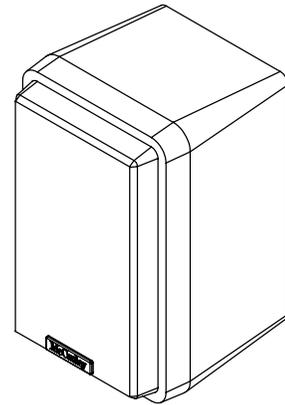
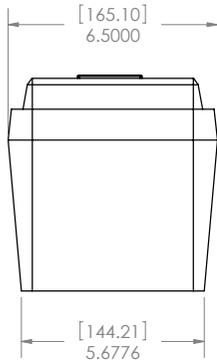
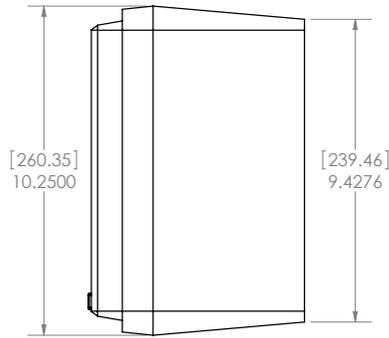
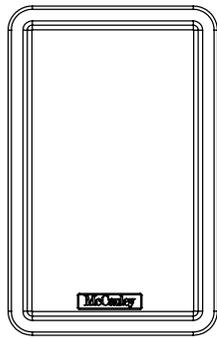
PERFORMANCE PARAMETERS

System Type	90°x90°, 2-Way, Full Range
Frequency Response	75Hz - 19.5kHz
-10dB	85Hz - 18kHz
+/- 3dB	
Sensitivity	93dB @ 2.83V 1 m
Passive	
Maximum SPL	(cont. / peak)
Passive	107dB / 113dB
Power Ratings	250w @ 8Ω
Passive - Program	125w @ 8Ω
Passive - AES	
Transformer Taps	7.5W, 15W, 25W, 8Ω
70V	

PHYSICAL PROPERTIES

Weight	7lbs / 3.18kgs
Dimensions	10.5 H x 7.0 W x 6.5 D
inches	26.7 H x 17.8 W x 16.5 D
centimeters	
Enclosure Material	Paintable, UV Resistant ABS Enclosure
Suspension	(4) Reinforced Hang Points (1) Vertical U-Bracket mounting location
Transducers	(1) 5.25" LF Transducer (1) 1" Diaphragm Direct Radiating Driver
Connectors	Push Terminals
Included Accessories	U-bracket with attachment bolts
Optional Accessories	Omni-Mount™, Swivel Mount

DIMENSIONAL ILLUSTRATIONS



ARCHITECTS AND ENGINEERS SPECIFICATIONS

The two-way full range loudspeaker system shall incorporate a 1.5" (38.1 mm) voice coil, 5.25" (133.4 mm) diameter LF transducer and a HF transducer. The LF driver shall be mounted in an optimally vented enclosure tuned for maximum low frequency response. The high frequency transducer shall be with a nominal horizontal coverage pattern of 90°. The vertical coverage pattern of the horn shall be 90° and shall also provide constant directivity.

The systems frequency response shall vary no more than ± 3 dB from 85 Hz to 18 kHz measured on axis. The loudspeaker system shall produce a passive Sound Pressure Level (SPL) of 93 dB SPL at a distance of 1 meter with an electrical power input of 1 Watt, and shall be capable of producing a maximum peak output of 113 dB SPL on axis at 1 meter.

The passive loudspeaker shall handle 125 Watts of amplifier power (per ref Standard AES2-1984-r2003) and shall have a nominal impedance of 8 Ohms. The loudspeaker shall have an internal line matching transformer with 7.5W, 15W, 25W and bypass (8 ohm nominal) settings and shall be compatible with 70V distributed systems.

The loudspeaker enclosure shall have a maximum weight of 7 lbs.(3.18 kg) and shall measure 7" (178 mm) wide at front, 6" (153 mm) in width at rear, 10.5" (266.7 mm) in height, and 6.5"(165 mm) in depth. The enclosure sides shall taper at 10° from a maximum frontal width, narrowing to the rear. The structure of the enclosure shall be constructed of UV Resistant, Molded ABS Plastic and shall feature weather and wear resistant, internal loudspeakers.

Input connectors shall be two, push terminals. A total of four 1/4"-20 UNC threaded mounting/suspension points (one on top, one on bottom, and two back) shall be provided.

Components in the front of the enclosure are to be protected by a grill made from perforated steel that is coated with heat cured epoxy powder.

The 2-way full range loudspeaker shall be the McCauley Sound model AC75.