

Q-1000 CP

Q Series

Q-1000 CP

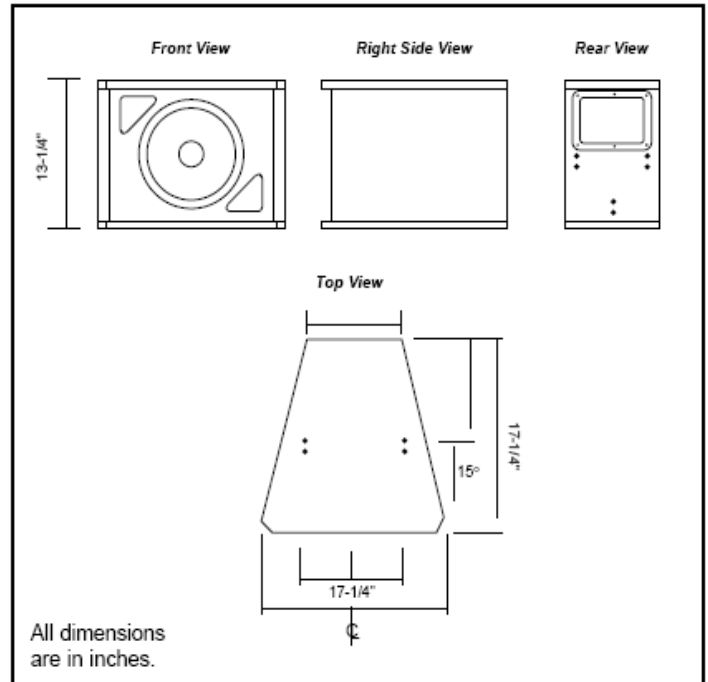
Co-Axial Speaker



The Q-1000 CP is a Co-Axial, trapezoid shaped speaker sub-system designed for flying operation. The Q-1000 CP model is a 10" Co-Axial Speaker with a 100° conical horn and an integral 1" mylar diaphragm driver. To achieve low crossover insertion loss and high reliability, 14 gauge wire and mylar capacitors are used throughout with all components mechanically secured to a glass epoxy PC board. To insure enclosure stability 3/4" birch plywood is used with all interconnecting surfaces extensively braced and glued. Being primarily an indoor cabinet, the Q-1000 CP uses a fire retardant cloth grill for both aesthetic and acoustical purposes. Standard finish is black textured paint, with white, or unfinished as an option. Like all other OAP Loudspeaker systems, the Q-1000 CP comes with a five year warranty.

The Q-1000 CP should be used when a full range speaker is needed and size limitations restrict the use of larger speaker enclosures. The cabinet is dimensionally matched with other Q-Series speakers such as the Q-100 models allowing aesthetically pleasing arrays in various cluster configurations. The Q-1000 CP is wired with an internal passive crossover, or can be used with an external active crossover.

CROSSOVER OPERATIONAL CHANGES The Q-1000 CP speaker features a model specific Passive Crossover Network, that is easily field convertible to an Active Crossover Network. The speaker comes standard with a terminal strip input plate. Parallel NL4 connectors are optional. The Red and Black wires on the Terminal Block are the inputs. Pin 1+ and Pin 1- on the NL4 are in parallel. Pin 2+ and Pin 2- are unused. To change the Speaker System to Active operation: remove the (6) 3/4" by 8 screws from the input plate. Locate the Molex connector on input plate (four wires blue/white, red/black) and disconnect from the crossover input Molex connector (two wires red/black). Locate output Molex connector (four wires red/black, and blue/white) and disconnect from Cabinet Harness Molex connector (four wires red/black, and blue/white). Reconnect the input Molex connector (four wires red/black, and blue/white). Reassemble input plate to cabinet with (6) 3/4" by 8 screws. The system is now configured for active operation. Red and Black wires on Terminal Block are for low input. White and Blue wires on Terminal Block are for high input. Pins 1+1- are low inputs on NL4. Pins 2+2- are high inputs on NL4. The Q-1000 CP is easily flyable via seven fly points. There are two points on the top, two points on the bottom, and three points on the back facilitating cluster configuration rigging. The Q-1000 has two 1/4" 28-thread inserts installed at each of the seven points for use with the optional flying hardware or the optional external flying brackets. A flying hardware kit, model FHK is available and includes one flying hardware plate model FHP, one flying hardware tie-down model FHT, and two 1/4" 28-thread machine screws. The model FHP and FHT, as well as the screws also are available separately. The tie-down has a round ring with an inside dimension of 1.12" which can be used with most standard rigging hardware. You must use at least two FHK to safely suspend the Q-1000 CP. Using the optional fly brackets, two or more Q-1000 and Q-100 cabinets may be connected. Attachment to the fly bracket can be made with either a Forged I-Bolt (FIB's), an



FHK, or a shackle directly to the fly bracket itself. Q-series bracketry that can be used with this product are: Flying Bracket, Angle Bracket, Telescoping Bracket, Directional Bracket, or an Anchor Bracket. (For further detail see Bracketry spec sheet).

WARNING!!!! RIGGING AND FLYING OF THE Q-1000 SHOULD BE DONE BY PERSONS FAMILIAR WITH STANDARD RIGGING PRACTICES. IF YOU ARE NOT FAMILIAR WITH THESE PRACTICES PLEASE CONSULT THE FACTORY, YOUR DEALER, THE LOCAL STAGE HANDS UNION OR A RIGGING SUPPLY COMPANY IN YOUR AREA.

WARRANTY: OAP Audio Q-Series loudspeaker systems are guaranteed against failure due to workmanship and materials for a period of five (5) years from date of purchase and is limited to original purchaser. If such failure does occur, unit will be replaced or repaired (at the discretion of OAP Audio) without charge for labor and materials. Unit must be delivered to OAP Audio or one of our authorized service facilities prepaid. In warranty items will be returned prepaid. Items not covered by warranty includes finish or appearance items, or failure due to operation under other than specified conditions. This warranty also does not include any incidental or consequential damages. Repair by other than OAP Audio or an authorized service facility will void this guarantee.

NOTE: As a research and development corporation, OAP Audio reserves the right to change specifications to improve performance.

Rev H (05/13)

Q-1000 CP Specifications

Impedance	8 ohm (system,note #1) 8 ohm low freq., 8 ohm high freq.
Low Frequency Device	10" dia. w/ 2" edgewound voice coil
High Frequency Driver	1" exit, 1.4" dia. edgewound voice coil, mylar diaphragm
High Frequency Horn	100° conical w/1" entry fiberglass
Frequency Response	+3db/-6db 50Hz to 20KHz, +/-3db 60Hz to 18KHz
Power Handling, LF	250 watts continuous program
Power Handling, HF	50 watts continuous program
Passive Crossover	Set at 1000Hz
Sensitivity, Low Freq.	92.9db 1watt @ 1 meter averaged between 125Hz and 1000Hz (note #1)
Sensitivity, High Freq.	94.1db 1watt @ 1 meter averaged between 1000Hz and 16KHz (note #1)
Sensitivity, Full Range	93.2db 1watt @ 1 meter averaged between 125Hz and 16KHz (note #1)
Dimensions	17.375"W X 13.25"H X 17.25"D
Weight	38lbs.
Taper	15°
Flypoints	7-2 on Top, 2 on Bottom, and 3 on Back
Color	Black, White and unfinished
Grill Cloth	Black, White, Wheat, and Pumice
Inputs	Terminal strip standard, NL4 optional

NOTE #2: Resulting data was done with the specific crossover designed for the loudspeaker system to ensure smooth response in the crossover region.

ARCHITECTURAL SPECIFICATIONS The loudspeaker shall be of the Co-Axial speaker type and a trapezoid shape (15° taper). The CP model shall incorporate a 10" Co-Axial Speaker with a 100° conical horn coupled to a 1" driver. The loudspeaker will have a frequency range between 60Hz and 18KHz, and a sensitivity of 93.2db, 1 watt/1 meter. The Q-1000 cabinet shall be constructed of 3/4" birch plywood and stiffened internally. All exposed corners shall be rounded for damage resistance. The seven Fly-points shall be fitted with 1/4 inch 28 thread inserts to be used with optional aircraft type rigging fittings or the external Q-series bracketry. The top and bottom of the cabinet shall be 3/4 inches thick. The top and bottom shall be reinforced with steel plates and connected together with 1/4 inch threaded rod to facilitate being able to rig one enclosure to another. The loudspeaker shall be the OAP model Q-1000 CP.