

FEATURES

- Small, light weight, portable
- Projected sound concentrated into audience area
- Smooth wide-range reproduction

Electro-Voice Model PC7 columnar loudspeaker represents a new concept in controlled sound projection. This speaker, utilizing six 5" x 7" cone speakers, eliminates many of the problems of feedback, "spotty" coverage and difficult installation commonly associated with temporary loudspeaker systems.

Engineered into the PC7 are use features which enable it to do more things--and to do them easier and better--than any comparable loudspeaker system. Its compact dimensions (just 8-1/2" wide x 5-3/4" deep x 42" long) permit loading it into even the smallest of auto trunk compartments or back seats, carrying it through narrow doorways and on crowded elevators. Lightweight construction (a mere 16 lbs.) and comfortable luggage-type handle make convenient portability a reality. Trunk corners and a tough leather-grained plastic exterior ensure high resistance to the buffeting encountered in hard, day-to-day use.

SPECIFICATIONS

Frequency Response: 100 to 10,000 cps
 Nominal Impedance: 16 ohms
 Power Handling Capacity:
 Program Material: 30 watts
 Peak: 60 watts
 Nominal Dispersion:
 Vertical: 40°
 Horizontal: 160°
 Sound Pressure Level: 114 db
 (at 4 feet with 30 watts input between 2 kc and 4 kc)
 EIA Pressure Rating: 51 db
 Dimensions: 42" x 8-1/2" x 5-3/4"
 Net Weight: 16 lbs.
 Finish: durable gold leatherette covering

INSTALLATION

In order to take advantage of the unique sound distribution characteristics of the PC7, it should be mounted in a vertical position, preferably several feet above the microphone used in the system. Where elevated mounting above the microphone is not possible, the PC7 may be used with excellent results in other positions. In those cases where it must be mounted at the side of the microphone, it usually will be desirable to place the PC7 at some distance from the microphone. In any event, some preliminary experimentation with placement in relation to the system microphone will usually result in reduced susceptibility of the system to feedback. The wide, smooth, horizontal dispersion of the PC7 eliminates critical placement due to audience coverage problems, and it will be found that, when the PC7 is mounted correctly with respect to the microphone, feedback will also cease to be a major problem. In this connection it should be noted that, for best results, a directional microphone should be employed.

Set up and take down of the PC7 is instantaneous and easy. It is self-standing, requiring no additional support or stand. A convenient jack accommodates a standard 1/4" phone plug, eliminating screw terminals and binding posts. The gold and black color complement of the PC7 and its clean, uncluttered styling contribute to its attractive appearance in any environment.

CONNECTION

Connection to the PC7 is made through the built-in phone jack located near the carrying handle. Obtain a standard, 1/4" phone plug and a suitable length of connecting cable. The cable should be No. 18 or larger, 2-conductor with a sturdy outer covering.

PC7 Portable Column Loudspeaker

The type of cable normally used for heavy-duty electrical extension cords is excellent for use in this application, due to its electrical conductivity and high degree of reliability. The cable conductors must be screwed or soldered to the phone plug, depending upon which type of plug is employed. The cable conductor from the amplifier common terminal should be connected to the outer, or sleeve, contact of the plug. The amplifier 16-ohm output terminal is connected to the tip or center terminal of the plug. Wiring the plug in this way will ensure that all loudspeakers will be phased correctly in the event more than one PC7 is employed in the system. When two PC7's are connected in parallel, the amplifier connection is made to the 8-ohm output tap.

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The loudspeaker shall be of the straight Line Radiator* type, utilizing six 5" x 7" cone speakers. The speakers shall be enclosed in a wood cabinet finished in durable gold leatherette. A contrasting black protective grille shall be provided. The loudspeaker shall be equipped with portable carrying handle and protective trunk-type corners. The overall size shall be 42" x 8-1/2" x 5-3/4". Frequency response shall be uniform from 100 to 10,000 cps. Nominal horizontal dispersion (with long axis of speaker vertical) shall be 160° and vertical dispersion shall be 40°. Sound pressure level at 4 feet on axis shall be 114 db when full rated power of 30 watts from 2000 to 4000 cps is applied. Nominal impedance shall be 16 ohms. Net weight shall be 16 lbs. Electro-Voice Model PC7 is specified.

* Electro-Voice Trademark

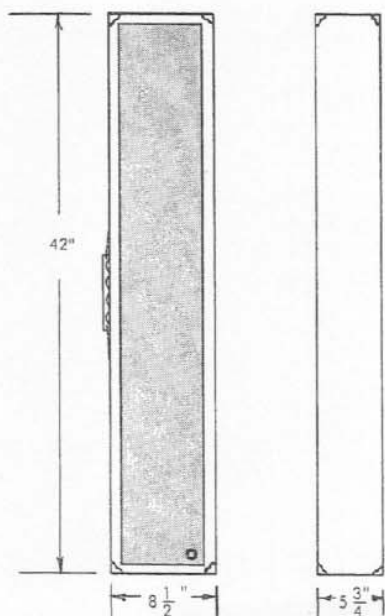


Figure 1. Dimensions

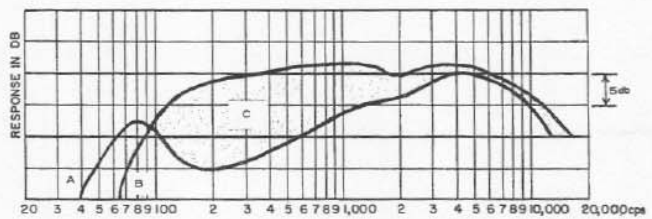


Figure 2. Frequency response curve

- A. Typical response of 12" loudspeaker in open-backed portable
- B. Typical response of model PC7
- C. Effective increase in efficiency and intelligibility due to improved response of PC7

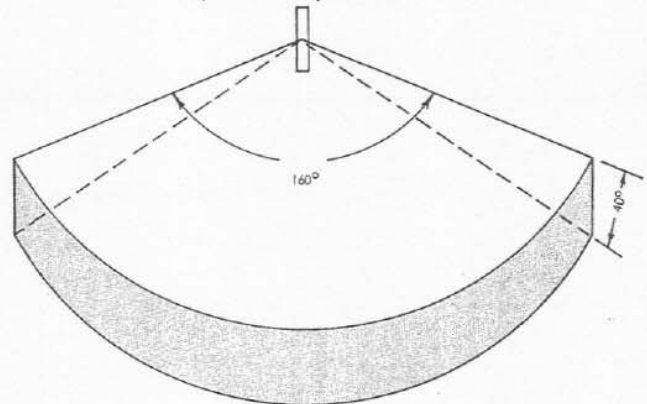


Figure 3. Effective distribution pattern

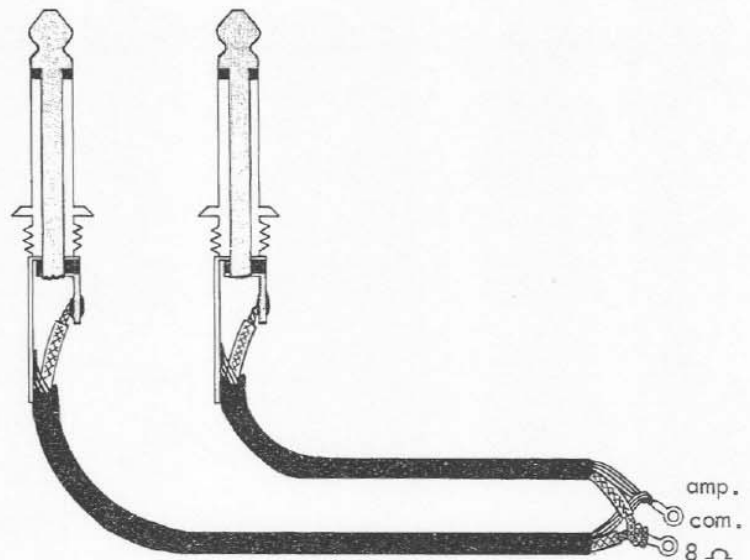


Figure 4. Wiring of two PC7's in parallel

