



**Electro-Voice®**  
a gulton company

## Model HC400 Paging Horn

### SPECIFICATIONS

Frequency Response, 10 feet on axis,  
1/3 octave Anechoic Environment  
(see Figure 2),

**1829:**

550 — 9 kHz nominal  
(± 5 dB 450 — 11.5 kHz)

**1824M:**

600 — 6 kHz nominal  
(± 5 dB 470 — 7.2 kHz)

**1828R:**

600 — 5.7 kHz nominal  
(± 5 dB 450 — 6.3 kHz)

Dispersion Angle Included by  
6-dB-Down-Points (see Figure 3)

**500 Hz:**

220°

**1000 Hz:**

130°

**3000 Hz:**

50°

Sound Pressure Level, 15 Watts at  
4 ft, Octave Band Centered on  
2000 Hz

**1829:**

117.7 dB

**1824M:**

119.7 dB

**1828R:**

120.7 dB

EIA Sensitivity, 1 mW at 30 ft on axis,  
Per EIA Std. SE-103

**1829:**

58.5 dB

**1824M:**

60.5 dB

**1828R:**

61.5 dB

**Color:**

Niles Brown

**Finish:**

Baked enamel paint

**Dimensions:**

254.0 mm (10.00 in.) diameter

131.8 mm (5.19 in.) deep

**Mounting:**

Steel "U" bracket with 3 holes  
spaced 1-1/2 inches apart

**Net Weight:**

2.0 kg (4.5 lbs)

**Recommended Drivers:**

1829/1829T and 1828R  
also

1824M and 1824S

1828C and 1828T

### DESCRIPTION AND APPLICATIONS

The Electro-Voice Model HC400 is a compact reentrant projector designed to provide high articulation in difficult paging applications. When used with the recommended Model 1829 driver a wide range, efficient paging speaker is the result. The HC400 may also be used with any Electro-Voice threaded driver. The metal construction provides a rugged product specially suited to outdoor applications.

The dispersion characteristics of the HC400, as shown in Figure 3, also provides a concentrated angle specially useful in long-throw applications and in locations where it is desirable to limit the coverage.

For further information about applications consult the Electro-Voice publication: "The Electro-Voice Guide to Commercial Sound Reinforcement and Public Address Systems," available without charge by writing to: Electro-Voice, Inc., Advertising Dept., 600 Cecil Street, Buchanan, MI 49107.

### SELECTION OF DRIVER:

The HC400 is designed to be used with the 1829 driver for flattest and widest frequency response. However, when maximum output is desired in the mid-band frequency range the 1824M is recommended. For the most economical selection where extended high frequency response is not required, the 1828R is recommended.

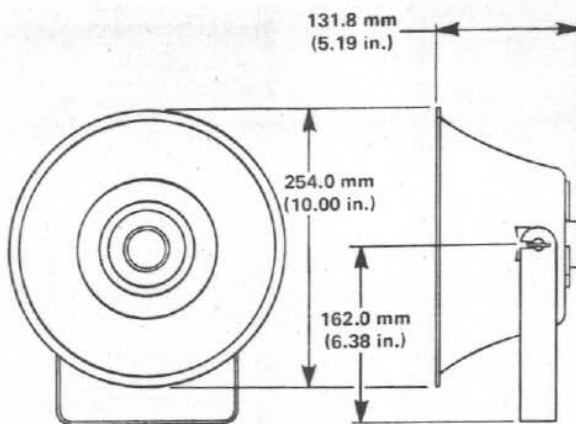


FIGURE 1 — Dimensions

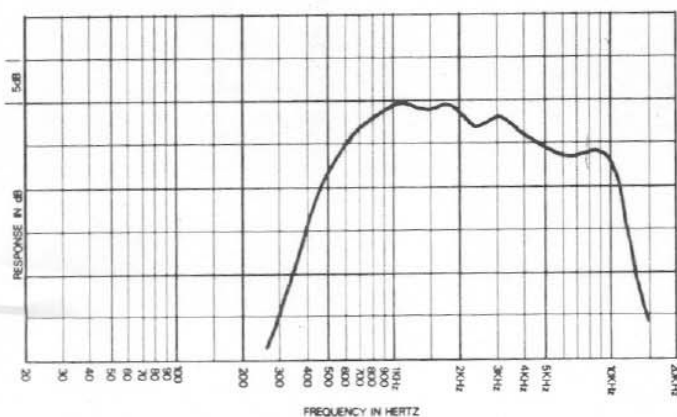


FIGURE 2 — Frequency Response with 1829 Driver

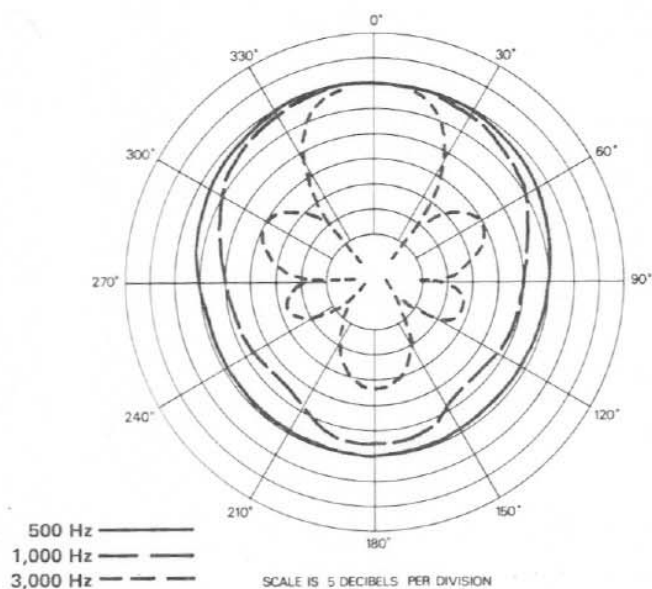


FIGURE 3 — Polar Pattern

#### INSTALLATION:

The HC400 features a unique, removable mounting bracket. Simply install the driver to be used with the HC400. Loosen the wing bolts on either side of the horn, but do not remove them entirely. Slip the "U" bracket off the horn and mount it in the desired position. Replace the horn and tighten the bolts firmly. Holes are provided on the side of the bracket for installation of a matching transformer.

#### WARRANTY (Limited) —

Electro-Voice Reinforcement & Public Address Loudspeakers and accessories are guaranteed for five years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, unit will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish or appearance items or malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For correct shipping address and instructions on return of Electro-Voice products for repair and locations of authorized service agencies, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street Buchanan, Michigan 49107 (Phone: 616/695-6831) or Electro-Voice West, 8234 Doe Avenue, P. O. Box 3297, Visalia, CA 93277 (Phone: 209/651-7777).

Electro-Voice also maintains complete facilities for non-warranty service.

Specifications subject to change without notice.