

# Constant Directivity Horn

Model 13340



## Features

- High-impact, glass-reinforced polyester horn
- Wide coverage angle with constant directivity
- Corrosion-resistant hardware and mounting brackets
- Optional speaker mounting assemblies available

## Benefits

- Highly resistant to chemicals and corrosives
- High intelligibility
- Maintains physical appearance in harsh environments
- Reduces the number of horns required for optimum coverage in open areas

The GAI-Tronics **Model 13340** wide-angle, constant directivity is designed to produce intelligible communications over a broad area. This horn has an even 120° horizontal and 60° vertical coverage angle for all speech reproductions. At any point throughout the horn's coverage angle, the quality and decibel level of a sound



Model 13340



Driver and Speaker  
Mounting Assembly  
Sold Separately

emitted remains constant within 6dB. The 13340's highly rugged and corrosive-resistant design makes it ideal for indoor or outdoor applications with few obstructions. GAI-Tronics offers a full range of acoustical engineering services to ensure the best speaker performance and proper placement for any application.

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## SPECIFICATIONS

### Acoustical

#### Frequency

Response: ..... 450 Hz-8,000Hz +/-5 dB with 13314 and 13310 series driver

Low Frequency Cutoff: ..... -10 dB (350 Hz)

High Frequency Cutoff: ..... -10 dB (12 KHz)

Coverage Angle: ..... 120° horizontal; 60° vertical; nom.

dB Level: ..... 119 dBspl @ 12 watts with 13314 driver at one meter  
113 dBspl @ 12 watts with 13310 driver at one meter

### Material

Horn body: ..... High-impact, injection molded, glass-reinforced polyester

#### Mounting

Hardware: ..... Passivated 304 stainless steel

Bracket: ..... Hot-dipped zinc, cold-rolled steel

#### Driver Coupling

Insert: ..... Clear-anodized aluminum

Driver Coupling: ..... 1-3/8 inch, 18 TPI UNEF

Mounting: ..... Will accommodate two 1/2 inch bolts spaced 3 to 5 inches

Throat Diameter: ..... 1 inch

Dimensions: ..... 15.63 (397) H x 27 (686)W x 14 (356)D; inches (mm)

Temperature Range: ..... -40C to +70C

Weight: ..... 12 lbs (5.44 kg)

## ORDER INFORMATION

### Order Model 13340

Model 13340 requires a separate compression driver (Reference GAI-Tronics Models 13314 and 13310)

### Accessories

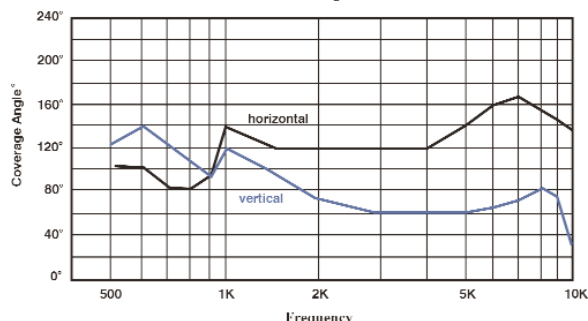
411A ..... Speaker mounting assembly for 13340 and 13314 combinations

415A ..... Speaker mounting assembly for 13340 and 13310 combinations

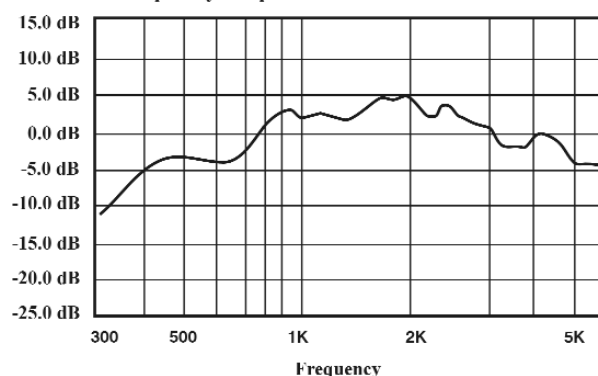
12526-001 ..... Speaker steel mounting bracket kit

**GAI-Tronics offers a complete line of replacement parts to assure proper maintenance and reduce costly downtime.**

Directivity Plot for 13340 Horn  
at -6dB point



Frequency Response of 13340 with 13314 Driver



USA Toll Free: 1 (800) 492-1212 Tel: (610) 777-1374 Fax: (610) 796-5954 [www.gai-tronics.com](http://www.gai-tronics.com)  
UK Tel: +44 (0)1283 500500 Fax: +44 (0)1283 500400 [www.gai-tronics.co.uk](http://www.gai-tronics.co.uk)  
Italy Tel: +39 02 48601460 Fax: +39 02 93663110 [www.gai-tronics.it](http://www.gai-tronics.it)  
Malaysia Tel: +60-3-8945-4035 / 8945-7348 Fax: +60-3-8945-4675 [www.gai-tronics.com](http://www.gai-tronics.com)  
Australia Tel: 011-61-28-851-5000 Fax: 011-61-29-899-2490 [www.austdac.com.au](http://www.austdac.com.au)

