



Electro-Voice®
a gulton company

Model 8HD Diffraction Horn

SPECIFICATIONS

Dispersion (Horn's long axis vertical)

Horizontal:

120°

Vertical:

90°

Crossover Frequency:

800 Hz

Cutoff Frequency:

600 Hz

Construction:

Rigid Die-casting

Size:

381 mm (15 in.) high

114.3 mm (4.5 in.) wide

209.6 mm (8.25 in.) diameter

Net Weight:

1 kg (2 lbs, 10 oz)

Shipping Weight:

1.8 kg (4 lbs)

MOUNTING ACCESSORIES (Packed in carton with unit)

- 1 L-shape mounting bracket
- 4 Carriage bolts, 3/16 in x 1-3/4 in.
- 4 Nuts, 3/16 in. —24 square
- 4 Washers, No. 10 flat
- 2 Wood screws, No. 8 x 3/4, round hd
- 2 Washers, No. 8 flat
- 2 Rubber damping strips
- 1 Gasket

Specifications subject to change without notice

INTRODUCTION

The Electro-Voice Model 8HD Diffraction Horn is an exponentially flared horn designed for use with the Electro-Voice Model 1824M. It can also be used with Electro-Voice drivers 1828R, 1829 and DH1506.

GENERAL DESCRIPTION

The Model 8HD unit employs the Diffraction principle in combination with the correct exponential flare to provide smooth and adequate dispersion of the "presence" or "treble" range. The result is a "spread" of sound that affords adequate coverage of the entire listening area — this is specially important in stereophonic installations. The 8HD horn is of rugged diecast construction and is finished in non-halation matte black to obviate "shine-through". The horn is designed for crossover at 800 Hz with an appropriate crossover network such as the Electro-Voice Model X8; actual horn cutoff is 600 Hz. This overlap eliminates disturbances often caused by operating horn crossover points too close to cutoff points.

RECOMMENDATIONS FOR USE

The 8HD is recommended for use with the Electro-Voice 1824M driver, but can be used with other drivers having a throat which will accept a 1-3/8" —18 thread, such as 1828R, 1829 and DH1506.

MOUNTING

It is recommended that the 8HD be mounted to a sturdy baffle board, as near ear level as possible. For maximum horizontal dispersion, the horn should be mounted with its long axis vertical. When mounting to a baffle board, cut out port and drill mounting holes. Proper port size is 79.4 mm (3.13 in.) x 355.6 mm (14 in.). Mounting holes are on 98.4 mm (3.88 in.) and 368.3 mm (14.5 in.) centers. Fasten horn to panel using the (4) 3/16 in. carriage bolts, nuts and washers provided. The gasket should be placed between the horn and the panel to ensure an effective seal. Thread the driver securely into place on the horn.

It is also possible to mount the 8HD without use of a baffle board. In this case, support is provided at the driver using the L-shaped bracket supplied. This bracket is secured to the enclosure using the No. 8 wood screws and flat washers supplied. The mouth of the driver should now be inserted through the bracket, and the driver and horn carefully threaded together and tightened by hand.

When the 8HD is left free standing (not secured directly to a baffle board) the two molded rubber strips should be applied to the long sides of the horn to eliminate any tendency of the horn to resonate.

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