

HPS64

TransPlanar™
Constant-Directivity
Horn



General Product Description

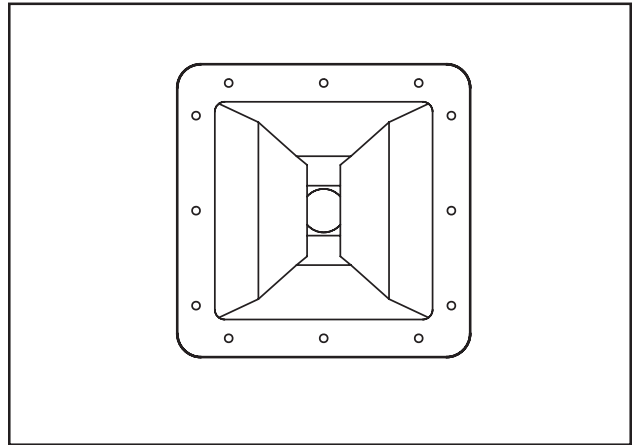
The Electro-Voice® model HP64 is a wide-range, flat-front, high-frequency, constant-directivity horn. Furthermore, excellent loading is maintained to a low frequency of 1200 Hz.

The flat-front design makes the HPS64 suitable for all modern boxed and clustered systems. A special vaned waveguide throat detail gives the HPS64 unusually good high-frequency control, vertically, when compared to similar 1.4-inch-throat horn designs.

Architects' and Engineers' Specifications

The horn shall be of the constant-directivity type. It shall produce a horizontal nominal beamwidth (6 dB-down angle) of 60 degrees. It shall produce a vertical nominal beamwidth of 40 degrees. It shall provide useful acoustic loading at all frequencies above 1200 Hz.

The horn shall be of hybrid fiberglass-and-zinc construction. The driver-mounting flange and initial throat section shall be constructed of die-cast zinc and shall be integrally laminated into the fiberglass portion of the horn.



The horn shall possess a throat of 4.92-cm (1.94in.) diameter and its flange shall be provided with four ¼-20 clearance bolt holes on a 10.2 cm (4.0 in.) circle for the mounting of the compression driver. The horn shall be 27.9 cm (11.0 in.) high, 22.2 cm (8.8 in.) wide, and 22.2 cm (8.7 in.) long. It shall weigh no more than 2.5 kg (4.5 lb).

The horn shall be the Electro-Voice model HPS64 constant-directivity horn.

Specifications:

The following specifications are in accordance with or exceed the AES Recommended Practice for Specification of Loudspeaker Components Used in Professional Audio and Sound Reinforcement (AES2-1984; ANSI S4.26-1984).

Horizontal Beamwidth:

60°

Vertical Beamwidth:

40°

Directivity Factor R_0 (Q):

18.1

Directivity Index D_i :

12.6 dB

10 log R_0

Lowest Recommended Crossover Frequency:

1200 Hz

Construction:

Polyester resin and glass-fiber laminate integrally molded to a die-cast zinc throat section. This hybrid construction assures a rigid driver mount, accurate, loss-free throat-wave transmission and low total weight compared to horns of similar size.

Mechanical Connection of Driver:

Bolt on; standard 1.4" diameter throat, 4.5" diameter mounting flange and four clearance holes for ¼" bolts on a 3.5" diameter bolt circle.

Recommended Driver:

DH1A, DH2A

Weight:

2.5 kg (4.5 lb)

Dimensions:	Inches
A	1.375
B	4.5
C	9.25
D	9.25
E	3.5
F	0.281 x 4
G	9.063
H	8.815

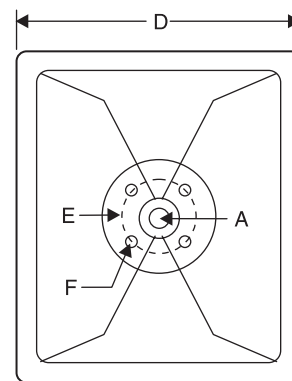
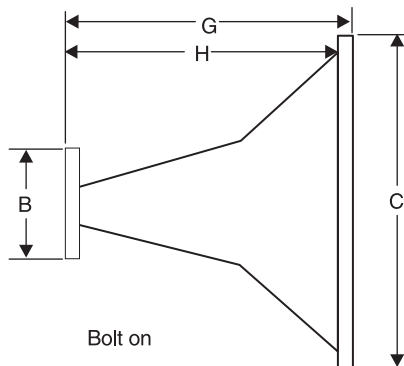


Figure 1: Dimensions

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France Parc de Courcerin, Alle Lech Walesa, Lognes, 77185 Marne La Vallee, France, Phone: 33/1-6480-0090, FAX: 33/1-6480-4538
Australia Unit 23, Block C, Slough Business Park, Slough Avenue, Silverwater, N.S.W. 2128, Australia, Phone: 61/2-9648-3455, FAX: 61/2-9648-5585
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Electro-Voice®

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For customer orders, contact the Customer Service department at
800/392-3497 Fax: 800/955-6831

For warranty repair or service information, contact the Service
Repair department at 800/685-2606

For technical assistance, contact Technical Support at 866/78AUDIO

Please refer to the Engineering Data Sheet for warranty information.
Specifications subject to change without notice.