

HP85P

**Constant-Directivity
Horn**



General Product Description

The Electro-Voice® HP85P is a wide-range, flat-front, constant-directivity, high-frequency horn. Excellent loading is maintained to a low frequency of 1200 Hz.

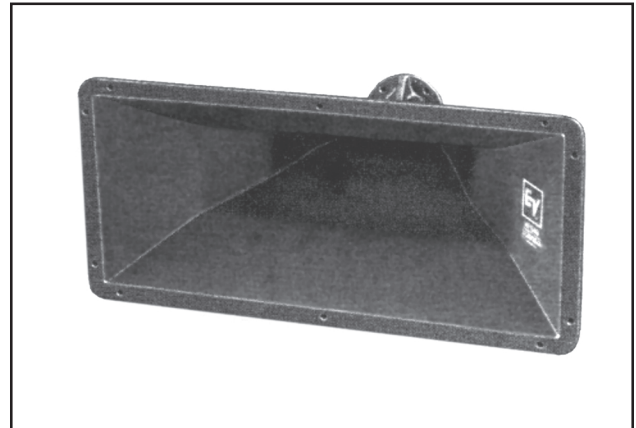
The flat-front design makes the HP85P suitable for all modern boxed and clustered systems. A special vaned waveguide throat detail gives the HP85P unusually uniform vertical directivity control in the top octaves when compared to similar 1-inch-throat horn designs.

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 80 degrees. It shall produce a vertical nominal beamwidth of 50 degrees. In addition, it shall provide useful acoustic loading at all frequencies above 1200 Hz.

The horn shall be of polyurethane construction.

The horn shall possess a throat of 4.9 cm (1.94-in.) diameter, and its flange shall be provided with four clearance holes for ¼-20 bolts, located on a 10.2 cm



(4.0 in.) circle for the mounting of the compression driver. The horn shall be 33.0 cm (13.0 in.) high, 71.1 cm (28.0 in.) wide and 43.7 cm (17.2 in.) long. It shall weigh no more than 2.2 kg (4.8 lb).

The horn shall be the Electro-Voice HP85P 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:

80°

Vertical Beamwidth:

50°

Directivity Factor R_0 (Q):

17.8

Directivity Index D_i :

12.5 dB

10 log R_0

Lowest Recommended Crossover Frequency:

1200 Hz

Construction:

Black polyurethane with a matt texture. This 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:

1-3/8"-18 threaded hole.

Recommended Driver:

DH2010A, DH2T

Weight:

2.2 kg (4.8 lb)

Electro-Voice®

Dimensions:	Inches
A	.93
B	5.00
C	6.00
D	12.00
E	0.21 x 12
F	4.65
G	
H	

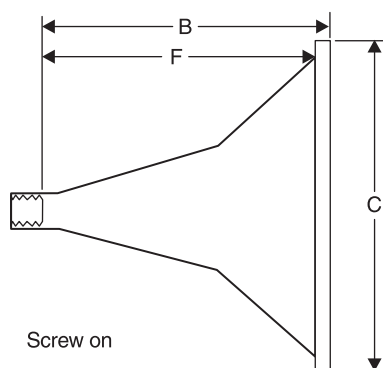
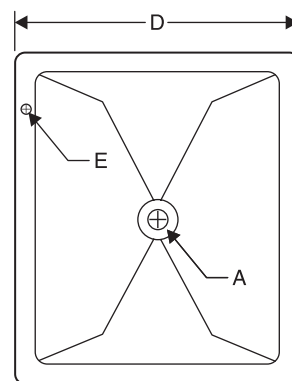


Figure 1: Dimensions



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Canada 705 Progress Avenue, Unit 46, Scarborough, Ontario, Canada, M1H2X1, Phone: 416-431-4975, 800-881-1685, FAX: 416-431-4588
Germany Hirschberger Ring 45, D94315, Straubing, Germany, Phone: 49 9421-706 0, FAX: 49 9421-706 287
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
Hong Kong Unit E & F, 21/F, Luk Hop Industrial Bldg., 8 Luk Hop St., San PO Kong, Kowloon, Hong Kong, Phone: 852-2351-3628, FAX: 852-2351-3329
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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.