

Easy Design Horn Loudspeakers

Models HS7EZ, HS15EZ, & HS30EZ



Description

Bogen's Easy Design line of horn loudspeakers are compact, high intelligibility, reentrant type loudspeakers designed for use with 70V amplifier systems. Their sturdy, weatherproof, all-metal construction is ideal for indoor and outdoor use in industrial plants, warehouses, schools, construction sites, transportation terminals, and recreational areas.

The HS7EZ is a 7.5-watt single-tap speaker; the HS15EZ, a 15-watt single-tap speaker; and the HS30EZ, a 30-watt single-tap speaker. All three models include a stepped attenuator volume control and come with a tilt and swivel mounting base for greater flexibility in setting the angle of projection.

The HS15EZ and HS30EZ are engineered to simplify installation (with a uniquely designed all-purpose mounting bracket) and field maintenance (with a self-aligning, field replaceable diaphragm), which save both time and money.

Both the speakers and the mounting brackets are attractively finished in textured mocha enamel.

Features

- 7.5-, 15-, and 30-watt models
- Single-tap design
- Stepped attenuator volume control
- 12" lead wire for electrical connections (HS7EZ)
- Screw terminal connections for fast installation (HS15EZ and HS30EZ models)
- Designed for 70V amplifier outputs
- Tilt and swivel mounting base for flexibility in coverage
- High intelligibility and efficiency
- Weatherproof, all-metal construction
- Limited lifetime warranty
- Mountable to I-beam flange using Bogen's BC1 Beam Clamp (sold separately)
- HS15EZ and HS30EZ models mountable to electrical box using Bogen's HSES10 mounting strap (sold separately)
- Terminal Cover (TCSPT1) allows connection of conduit fittings to horn speakers (sold separately)

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54-7888-01C 0904

Technical Specifications

SPECIFICATION	HS7EZ	HS15EZ	HS30EZ
Power Rating (RMS)	7.5W	15W	30W
Frequency Response	250 Hz to 14 kHz	275 Hz to 14 kHz	225 Hz to 14 kHz
Impedance	653 ohms	326 ohms	163 ohms
Sound Pressure Level	105 dBspl*	121 dBspl*	125 dBspl*
Dispersion	120°	110°	100°
Dimensions	6" Dia. x 4" D	9" Dia. x 9-1/4" D	11" Dia. x 10-1/2" D
Product Weight	2 lb.	4 lb.	6 lb.
Finish	Textured mocha enamel		

Architect and Engineer Specifications

The loudspeaker shall be a Bogen Easy Design Horn Loudspeaker, Model HS7EZ, HS15EZ, or HS30EZ.

HS7EZ

Rated power output shall be 7.5 watts RMS continuous. Frequency response shall be 250 Hz to 14 kHz. Dispersion shall be 120°. Sound pressure level shall be at least 105 dB*. Impedance shall be 653 ohms. The speaker shall feature a 12" lead wire for electrical connections.

HS15EZ

Rated power output shall be 15 watts RMS continuous. Frequency response shall be 275 Hz to 14 kHz. Dispersion shall be 110°. Sound pressure level shall be at least 121 dB*. Impedance shall be 326 ohms. A screw terminal shall be provided for connection to the audio line.

HS30EZ

Rated power output shall be 30 watts RMS continuous. Frequency response shall be 225 Hz to 14 kHz. Dispersion shall be 100°. Sound pressure level shall be at least 125 dB*. Impedance shall be 163 ohms. A screw terminal shall be provided for connection to the audio line.

The loudspeaker shall be of weatherproof, all-metal construction. An all-purpose mounting bracket shall provide precise positioning in the vertical and horizontal planes with a single adjustment. The bracket shall include banding slots to permit mounting the loudspeaker on beams or pillars. Bracket and loudspeaker shall be finished in textured mocha enamel.

The driver shall be enclosed within a waterproof housing. The loudspeaker shall include a self-aligning, field-replaceable diaphragm.

A plastic cover shall be provided to protect the connectors and stepped volume control, and provide strain relief for the audio line.

The HS7EZ shall measure 6" diameter by 4" depth, the HS15EZ shall measure 9" diameter by 9-1/4" depth, and the HS30EZ shall measure 11" diameter by 10-1/2" depth. Product weight shall be 2 lb., 4 lb., and 6 lb., respectively.

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* Sound pressure level measured four feet on axis with rated power output @ 1 kHz.