

Reentrant Horn Loudspeakers

Models SPT30A and SP308A



Description

The Bogen SPT30A and SP308A are compact, high intelligibility, reentrant type loudspeakers, designed for one-way or two-way sound and communication 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 Model SPT30A has a built-in, variable impedance selector switch for matching the speaker power requirements to a 25V or 70V constant-voltage line. The model SP308A has an 8-ohm impedance only.

Features

- High intelligibility and efficiency; ideal for both one-way and talk back applications
- Weatherproof, all-metal construction
- 30 watts; 25/70 volt or 8-ohm operation
- Tap settings for 70V: 30, 15, 7.5, 3.7, 1.8 watts; for 25V: 15, 7.5, 3.7, 1.8 watts
- Rotary tap impedance selector on SPT30A
- Tilt and swivel base for easy positioning
- Screw terminals make installation fast and easy
- All-purpose mounting bracket
- Self-aligning, field replaceable diaphragm
- Textured mocha enamel finish
- Limited lifetime warranty
- Mountable to I-beam flange using Bogen's BC1 Beam Clamp (sold separately)
- 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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Technical Specifications

Power Rating (RMS): 30 watts continuous, 40 watts equalized

Frequency Response: 225 Hz to 14 kHz

Impedance:

SPT30A — 25/70 volts

SP308A — 8 ohms

Sound Pressure Level: 125 dB @ four feet on axis with 30-watt input @ 1000 Hz

Dispersion: 100°

Sensitivity as Microphone: -22 dBm [Ref: 10 dynes/cm²]

Dimensions: 11" Diameter x 10-1/2" D

Product Weight:

SPT30A — 6 lb.

SP308A — 5 lb.

Finish: Textured mocha enamel

Impedance Selector Switch Settings (SPT30A only):

25V @ 15, 7.5, 3.7, 1.8 watts

70V @ 30, 15, 7.5, 3.7, 1.8 watts

Sound Pressure Level in dB @ 1000Hz:

| Watts Input: | Feet on Axis | | | | |
|--------------|--------------|-----|-----|-----|-----|
| | 4 | 8 | 16 | 32 | 64 |
| 30 | 125 | 119 | 113 | 107 | 101 |
| 15 | 122 | 116 | 110 | 104 | 98 |
| 7.5 | 119 | 113 | 107 | 101 | 95 |
| 3.7 | 116 | 110 | 104 | 98 | 92 |
| 1.8 | 113 | 107 | 101 | 95 | 89 |

Architect and Engineer Specifications

The loudspeaker shall be a Bogen Model ____ (specify SPT30A or SP308A), or approved equivalent, reentrant type horn loudspeaker. The frequency response shall be 225 Hz to 14 kHz. Rated power output shall be 30 watts, RMS continuous. Dispersion shall be 100°. Sound pressure level, measured four feet on axis with 30 watt input @ 1000 Hz, shall be at least 125 dB.

Use for SPT30A. The unit shall incorporate a seven-position weather-sealed switch, to allow matching the loudspeaker to a 25V or 70V constant-voltage line. Power handling capacity shall be adjustable at 70V to 1.8, 3.7, 7.5, 15, or 30 watts, and at 25V to 1.8, 3.7, 7.5, or 15 watts.

Use for SP308A. The unit shall have an impedance of 8 ohms.

The loudspeaker shall be of weatherproof, all-metal construction, with driver enclosed within a weatherproof housing. The loudspeaker shall include a self-aligning, field-replaceable diaphragm.

Screw terminals shall be provided for connection to the audio line. A plastic cover shall be provided to protect the connectors and impedance selector switch, and provide strain relief for the audio line.

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 unit shall measure 11" in diameter by 10-1/2" D. Product weight shall be _____ (insert 6 lb. for the SPT30A, 5 lb. for the SP308A).