

# Reentrant Horn Loudspeakers

## Models SPT30A and SP308A



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### Features

- High intelligibility and efficiency; ideal for both one-way and talkback applications
- Weatherproof, all metal construction
- 30 watts; 25/70 volt or 8-ohm operation
- Variable-tap impedance selector on SPT30A
- Beam clamp available (BC1)

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### 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. Screw terminals make installation fast and easy.

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.

Engineered to simplify installation (with a uniquely designed all-purpose mounting bracket) and field maintenance (with a self-aligning, field replaceable diaphragm), use of Bogen horn-type loudspeakers saves both time and money.

Speaker and mounting bracket are handsomely finished in textured mocha enamel. Diameter is 11" with a depth of 10-1/2". A beam clamp is also available (BC1), as an option.

\* These are not talk-back horns. Their use in two-way applications requires additional equipment.

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Part No. 54-7759-04R2 Printed in U.S.A. 0109

**Technical Specifications**

|   |   |                     |          |           |           |           |
|---|---|---------------------|----------|-----------|-----------|-----------|
| <b>Power Rating (RMS):</b>                  | 30 watts continuous, 40 watts equalized               |                     |          |           |           |           |
| <b>Frequency Response:</b>                  | 225Hz to 14kHz  |                     |          |           |           |           |
| <b>Impedance:</b>                           |   |                     |          |           |           |           |
| <i>SPT30A</i> —                             | 25/70 volts   |                     |          |           |           |           |
| <i>SP308A</i> —                             | 8 ohms  |                     |          |           |           |           |
| <b>Sound Pressure Level:</b>                | 125dB @ four feet on axis with 30 watt input @ 1000Hz |                     |          |           |           |           |
| <b>Dispersion:</b>                          | 100°  |                     |          |           |           |           |
| <b>Sensitivity as Microphone:</b>           | -22dBm [Ref: 10 dynes/cm <sup>2</sup> ]               |                     |          |           |           |           |
| <b>Dimensions:</b>                          | 11" Diameter x 10-1/2"D                               |                     |          |           |           |           |
| <b>Shipping Weight:</b>                     |   |                     |          |           |           |           |
| <i>SPT30A</i> —                             | 6 lbs.  |                     |          |           |           |           |
| <i>SP308A</i> —                             | 6 lbs.  |                     |          |           |           |           |
| <b>Finish:</b>                              | Textured mocha enamel                                 |                     |          |           |           |           |
| <b>Impedance Selector Switch Settings:</b>  | 25V @ 15, 7.5, 3.7, 1.8 watts                         |                     |          |           |           |           |
| <b>(SPT30A)</b>                             | 70V @ 30, 15, 7.5, 3.7, 1.8 watts                     |                     |          |           |           |           |
| <b>Sound Pressure Level in dB @ 1000Hz:</b> | <b>Watts</b>  | <b>Feet on Axis</b> |          |           |           |           |
|   | <b>Input:</b>   | <b>4</b>            | <b>8</b> | <b>16</b> | <b>32</b> | <b>64</b> |
|   | 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 225Hz to 14kHz. 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 @ 1000Hz, shall be at least 125dB.

**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. Impedance shall be adjustable to 2500, 1300, 666, 333, 167, 89, or 45 ohms.

**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 water-proof 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. Shipping weight shall be 6 lbs.

**BOGEN<sup>®</sup>**  
**COMMUNICATIONS, INC.**

50 Spring Street, Ramsey, NJ 07446, U.S.A.  
 Tel. 201-934-8500; FAX: 201-934-9832; www.bogen.com