

Reflex Horn Loudspeakers

Models SPT5A and SP58A



Description The Bogen SPT5A and SP58A are compact, reflex horn-type loudspeakers, designed for one-way or two-way sound and communications systems. Their wide frequency response assures full-range background music reproduction, making these loudspeakers an excellent choice for multi-purpose applications, indoor or outdoor, for use in industrial plants, warehouses, schools, construction sites, transportation terminals, and recreational areas.

The SPT5A has a built-in, variable impedance selector switch for matching the speaker power requirements to a 25V or 70V constant-voltage line. The SP58A has an 8-ohm impedance.

The loudspeakers measure 6" in diameter and 4" deep. Connections are made through a 12" connecting cable.

- Features**
- High intelligibility and efficiency
 - Passive loudspeaker
 - Ideal for both one-way and two-way applications
 - 7.5 watts
 - 25/70V or 8-ohm operation
 - Variable-tap impedance selector on SPT5A
 - All-purpose mounting bracket for precise positioning, both vertically and horizontally
 - Weatherproof, all-metal construction
 - Textured mocha enamel finish

Technical Specifications

Power Rating (RMS):	7.5 watts continuous					
Frequency Response:	250Hz to 14kHz					
Impedance:						
<i>SPT5A</i> —	25/70V					
<i>SP58A</i> —	8 ohms					
Sound Pressure Level:	105dB @ four feet on axis with 7.5 watt input @ 1000Hz					
Dispersion:	120°					
Sensitivity as Microphone:	-22dBm [Ref: 10 dynes/cm ²]					
Dimensions:	6" Dia. x 4" D					
Weight:						
<i>SPT5A</i> —	2 lbs.					
<i>SP58A</i> —	1.25 lbs.					
Finish:	Textured mocha enamel					
Impedance Selector Switch Settings:	25V @ 1, 0.62, 0.31 watts					
(SPT5A)	70V @ 7.5, 5, 2.5, 1.25, 0.65 watts					
Sound Pressure Level in dB @ 1000Hz:	Watts	Feet on Axis				
	Input:	4	8	16	32	64
	7.5 —	105	99	93	87	81
	5 —	103	97	91	85	79
	2.5 —	100	94	88	82	76
	1.25 —	97	91	85	79	73
	.65 —	94	88	82	76	70

Architect and Engineer Specifications

The loudspeaker shall be a Bogen Model _____ (specify SPT5A or SP58A), or approved equivalent, reentrant type horn loudspeaker. The frequency response shall be 250Hz to 14kHz. Rated power output shall be 7.5 watts, RMS continuous. Dispersion shall be 120°. Sound pressure level, measured four feet on axis with 7.5-watt input @ 1000Hz, shall be at least 105dB.

Use for SPT5A. The unit shall incorporate a five-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 7.5, 5, 2.5, 1.25, or 0.65 watts, and at 25V to 1, 0.62, or 0.31 watts.

Use for SP58A. The unit shall have an impedance of 8 ohms.

The loudspeakers shall have a weatherproof, all-metal housing. An all-purpose mounting bracket shall provide precise positioning in the vertical and horizontal planes. Bracket and loudspeaker shall be finished in textured mocha enamel. The loudspeakers shall measure 6" Dia. by 4" D. Weight shall be _____ (insert 2 lbs. for SPT5A, 1.25 lbs. for SP58A).

Reentrant Horn Loudspeakers

Models SPT15A and SP158A



Description

The Bogen SPT15A and SP158A 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 SPT15A has a built-in, rotary impedance selector switch for matching the speaker power requirements to a 25V or 70V constant-voltage line. The model SP158A has an 8-ohm impedance only.

Features

- High intelligibility and efficiency; ideal for both one-way and talk back applications
- Weatherproof, all-metal construction
- 15 watts; 25/70 volt (SPT15A) or 8-ohm (SP158A) operation
- Tap settings for 70V: 15, 7.5, 3.8, 1.8, 0.9 watts; for 25V: 15, 7.5, 1.8, 0.94, 0.46 watts
- Rotary tap impedance selector on SPT15A
- Tilt and swivel base for easy positioning
- Screw terminals make installation fast and easy
- All-purpose mounting bracket
- Self-aligning, field replaceable diaphragm
- 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)

Technical Specifications

Power Rating (RMS): 15 watts continuous, 20 watts equalized

Frequency Response: 275 Hz to 14 kHz

Impedance:

SPT15A — 25/70 volts

SP158A — 8 ohms

Sound Pressure Level: 121 dB @ four feet on axis with 15 watt input @ 1000 Hz

Dispersion: 110°

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

Dimensions: 9" Diameter x 9-1/4" D

Product Weight:

SPT15A — 4 lb.

SP158A — 3 lb.

Finish: Textured mocha enamel

Impedance Selector Switch Settings (SPT15A only): 25V @ 15, 7.5, 1.8, 0.94, 0.46 watts

70V @ 15, 7.5, 3.8, 1.8, 0.9 watts

Sound Pressure Level in dB @ 1000Hz:	Watts	Feet on Axis				
		4	8	16	32	64
Input:						
15		121	115	109	103	97
7.5		118	112	106	100	94
3.8		115	109	103	97	91
1.8		112	106	100	94	88
0.9		109	103	97	91	85
0.46		106	100	94	88	82

Architect and Engineer Specifications

The loudspeaker shall be a Bogen Model ____ (specify SPT15A or SP158A), or approved equal, reentrant type horn loudspeaker. The frequency response shall be 275 Hz to 14 kHz. Rated power output shall be 15 watts, RMS continuous. Dispersion shall be 110°. Sound pressure level, measured four feet on axis with 15 watt input @ 1000 Hz, shall be at least 121 dB.

Use for SPT15A. 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 0.9, 1.8, 3.8, 7.5, or 15 watts, and at 25V to 0.46, 0.94, 1.8, 7.5, or 15 watts.

Use for SP158A. 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 9" diameter by 9-1/4" D. Product weight shall be _____ (insert 4 lb. for SPT15A, 3 lb. for SP158A).

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)

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).



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