

ST208S

High-Power 80-Watt, 8" Ceiling Foreground Subwoofer Assembly



Features

- Ceiling-mount “blind fit” subwoofer assembly designed for high-quality foreground music and AV playback
- Exceptional sound quality and uniform dispersion
- 80-Watt, 8" low-frequency driver mounted in a ported reflex enclosure provides exceptional bass response
- Built-in crossover and overload circuitry ensures optimal driver protection
- Professional 4-pole Euroblock connector
- 12" depth zinc-coated steel back-can with seismic restraint tab
- Subwoofers packed in pairs with Split “C” ring and steel tile bridge support channels
- Detachable white powder-coated steel grille compliments any decor, optional black grill also available
- UL1480 and UL2043 rated and compliant with all applicable safety codes
- High-quality components and exceptionally rugged construction ensure long life

Product Overview

The Eurocom ST208S is a high-performance 8-inch ceiling subwoofer assembly that is designed for a wide variety of fixed-installation applications. Delivering deep, powerful lows that perfectly complement full-range Eurocom ceiling loudspeakers, the ST208S is ideal for distributed systems in conference centers, hotels, casinos, and other venues that require rich, full reproduction of music, voice, and AV sources.

Featuring an 8-inch woofer with 160 W maximum power capacity, the ST208S accurately reproduces demanding low-end material for a clean, full sound. Operating mode and power are selected with a front-mounted 5-position rotary switch that sets the loudspeaker to operate either in low-impedance mode (8 Ω) or at one of the supported wattages for operation at 70 V (10, 20, 40, or 80 W) or 100 V (20, 40, or 80 W). Overload circuitry is included to protect the loudspeaker from excessive peaks, thereby reducing the expense and complexity of including subwoofers in a distributed speaker system.

The ST208S is housed in a ported reflex back can of rigid zinc-coated steel for exceptional bass response. The 13.7"/348 mm cylindrical assembly is designed for easy “blind” installation in ceiling tiles using included C-ring support bars and backing plates, and features a seismic restraint that secures it to the building’s structure via steel cable. Amplifiers are connected via a 4-pole Euroblock connector.

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Technical Specifications

• Frequency range (-10 dB)	45 Hz - 200 kHz
• Frequency response (-3 dB)	55 Hz - 150 kHz
• Power handling (pink noise)	80 W
• Max. power handling	160 W
• Sensitivity	89 dB, 1 W @ 1 m, 1/2 space
• Nominal impedance	8 Ω
• Maximum SPL (low impedance)	111 dB @ 1 m
• Transformer taps @ 70 V	80, 40, 20, 10 W
• Transformer taps @ 100 V	80, 40, 20 W, n/a

Transducers

• Low frequency driver	8"
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Physical

• Baffle	Plastic
• Back can	Steel
• Termination	4-pole Euroblock
• Outside diameter	13.7" / 348 mm
• Inside depth	12.5" / 317 mm
• Cutout size	12.2" / 308 mm
• Net weight	21.56 lbs / 9.80 kg
• Shipping/Gross weight (by pair)	63.20 lbs / 28.73 kg
• Included accessories	Mounting C-ring and tile rail
• Optional accessories	Plaster ring (ST208S PR) Black grille (ST208S-BG)

Safety Agency Rating Information

Rated for use in air handling spaces per UL1480, UL2043, NFPA70 and NFPA90. All ST2000 series ceiling speakers are in compliance with applicable fire codes.

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Architect's and Engineer's Specifications

Summary Description: The loudspeaker shall be a professional in-ceiling subwoofer assembly in a ported steel back-can with an 8-inch (203 mm) low-frequency cone transducer.

Driver for the subwoofer assembly shall be a single 8-inch (203 mm) direct-radiating cone transducer.

Enclosure: The subwoofer assembly shall be a back-can constructed of zinc-coated steel with a plastic baffle to which the transducer is mounted. The enclosure shall be vented for enhanced low-frequency response. The front of the enclosure shall be protected with a detachable grille of powder-coated steel, rimmed in smoked chrome, whose diameter exceeds that of the opening (no trim ring). The back of the enclosure shall have a recessed connection well, protected by a connection cover, and conduit clamps to secure wiring.

Mounting: Hardware for the subwoofer assembly shall be designed for installation into suspended ceiling tiles, including steel support bars, split C-ring backing plate, and seismic restraint.

Electrical: The subwoofer assembly shall also include a transformer enabled by a front-mounted 5-position rotary switch that sets the loudspeaker to operate either in low-impedance mode (8Ω) or at one of the supported wattages for high-impedance operation. Transformer taps at 70 V shall be 10, 20, 40, and 80 W. Transformer taps at 100 V shall be 20, 40, and 80 W.

Connection to the subwoofer assembly shall be via a 4-pole Euroblock connector accepting 22 to 14 gauge wire. Pins 1 and 2 shall provide input power to the loudspeaker. Pins 3 and 4 shall provide full-range output allowing connection of additional loudspeakers to the same amplifier channel.

Performance criteria met by the subwoofer assembly shall include:

Nominal impedance of 8Ω ;

Sensitivity (1 W/1 m passive, half-space) of 89 dB;

Usable frequency range (-10 dB) of 45 Hz - 200 Hz;

Frequency response (-3 dB) of 55 Hz - 150 Hz;

Power capacity (pink noise) of 80 W (160 W maximum peak);

Maximum SPL (low impedance) shall be 111 dB

Agency ratings for the subwoofer assembly shall include rating for use in air handling spaces per UL1480, UL2043, NFPA70, and NFPA90. The subwoofer assembly shall be in compliance with applicable fire codes.

Dimensions and weight: The subwoofer assembly shall have the following physical characteristics:

Outside diameter of 13.7" / 348 mm;

Inside Depth of 12.5" / 317 mm;

Cutout diameter of 12.2" / 308 mm;

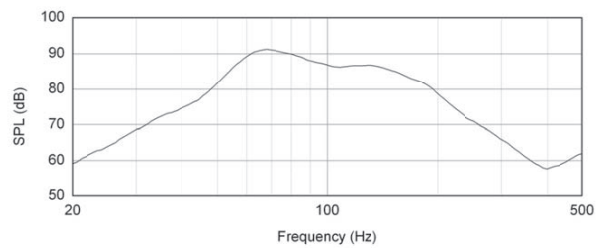
Net weight of no more than 23.32 lbs / 10.60 kg.

Model: The subwoofer assembly shall be the BEHRINGER EUROCOM ST208S.

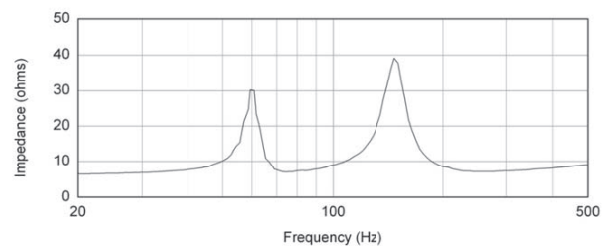
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Frequency Response (1 Watt / 1 meter)



Impedance



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Dimensional Drawings

