



Q-SB2

SUB-BASS SUPPLEMENT

KEY FEATURES

- » High power handling capacity (800 W/4 ohms)
- » High sensitivity (99 dB 1W/1m)
- » High SPL capability (128 dB)
- » Standard and custom colors available

Specifications: Model Q-SB2 Sub-Bass Supplement

System Type	Dual 18" (457 mm) bass supplement
Impedance (nominal) ¹	4 ohms
Sensitivity dB @ 2.83 V/1 m	102 dB
Sensitivity dB @ 1 W/1 m ²	99 dB
Frequency Response (- 3 dB) ³	
Frequency Response (-10 dB) ³	40Hz - 200Hz
Max. Continuous Peak Power ⁴	1600 W
Max. Continuous Power RMS ⁵	800 W
Max. Power SPL @ 1 m ⁶	128 dB
Transducer	(2) 18" (457 mm) treated pulp fiber
Voice Coil	4" (101.6 mm)
Recommended Crossover Frequency	150 Hz; 18 dB/octave
Enclosure & Reflector Material	Fiberglass with gelcoat finish
Grille	Powder-coated steel
Inputs	4-pin Neutrik
Colors	White (paintable); custom colors available
Height	32" (813 mm)
Diameter	Sphere: 32" (813 mm)
Weight	82 lbs. (37.2 kg)
Shipping Weight	99 lbs. (44.9 kg)
Packaging	One per box
Optional Accessories	Electronic Crossover (Model Q-CX), Hanging Kit (HKXL), Universal Beam Clamp (BCL)
Regulatory – CE	Approved
RoHS	Approved

¹ Impedance listed per IEC 60268-5 with a minimum less than 80% the nominal impedance

² 1 W 1 m sensitivity determined using nominal impedance

³ Frequency response measured in half or full space as dictated by speaker mounting configuration

⁴ Max. continuous peak power is 3 dB above max. continuous power

⁵ Continuous power rating, EIA-426-B test

⁶ Max. output based on max. continuous power

DESCRIPTION

The Model Q-SB2 sub-bass supplement unit is for use with Q-12A systems where extended low-frequency performance is required at high sound pressure levels.

Q-12 Combo systems that include a Q-SB2 create a single source of high-fidelity, intelligible sound with deep, extended bass.

www.soundsphere.com

Q-SB2

Sub-Bass Supplement for Enhanced Low-Frequency Response at High-Sound Pressures in Model Q-12A-Based Systems

GRAPHS AND PLOTS

Hemispherical Frequency Response

Impedance/Phase

MODEL Q-12A COMBO KITS

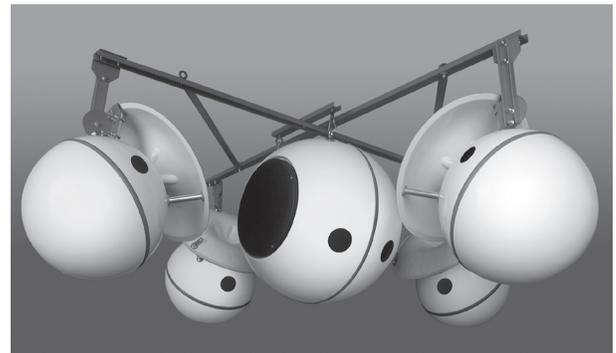
In acoustically difficult spaces where more than one speaker is required, Q-12A Combo systems create a single source of sound using multiple Q-12A loudspeakers. Q-12A Combo systems are available in two or four Q-12A speaker configurations, with or without the Q-SB2 sub bass. In larger spaces, Combo systems offer superior performance from a single source at lower cost. Q-12A Combo systems that include a Q-SB2 create a single source of high-fidelity, intelligible sound with deep, extended bass.

Model Q-Combo 2: Includes two Q-12A loudspeakers and BK2 Boom Kit

Model Q-Combo 3: Includes two Q-12A loudspeakers, one Q-SB2 subwoofer, BK3 Boom Kit and Q-CX electronic crossover

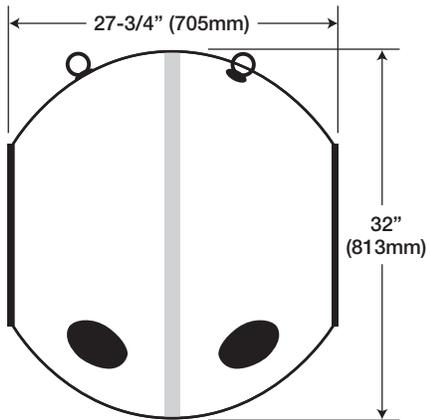
Model Q-Combo 4: Includes four Q-12A loudspeakers and BK4 Boom Kit

Model Q-Combo 5 (shown): Includes four Q-12A loudspeakers, one Q-SB2 subwoofer, BK5 Boom Kit and Q-CX electronic crossover



Model Q-Combo 5

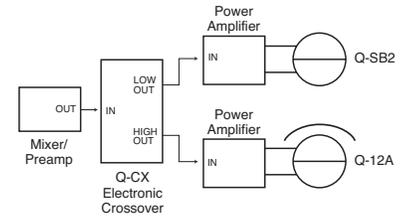
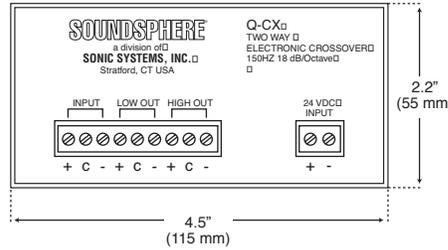
MECHANICAL DRAWINGS



ACCESSORIES

Electronic Crossover (Q-CX)

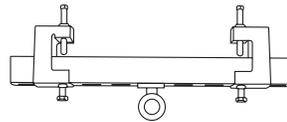
The Model Q-CX is a compact electronic crossover designed to ensure proper performance of the Model Q-SB2 in a system with Model Q-12A loudspeakers.



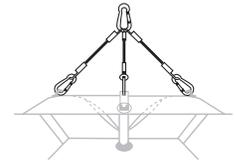
Model Q-CX Electronic Crossover Typical Application

Specifications: Model Q-CX Electronic Crossover

Inputs/Outputs	Phoenix-type compression terminal block. Inputs and outputs are electronically balanced.
Filter Slope	18 dB/octave
Crossover Frequency	150 Hz (-3 dB)
Power Supply	24 - 30 VDC @ 100 mA
Power Supply Connection	Phoenix-type compression terminal block
Dimensions	4.5" (114 mm) L x 2.2" (56 mm) W x 0.75" (19 mm) H
Weight	0.5 lbs. (0.23 kg)



Universal Beam Clamp (BCL)
For I-beam mounting.



Hanging Kit (HKXL)

Q-SB2

Sub-Bass Supplement for Enhanced Low-Frequency Response at High-Sound Pressures in Model Q-12A-Based Systems

APPLICATIONS

Providing enhanced low-frequency performance at high sound pressure levels in Model Q-12A systems, the Q-SB2 sub-bass supplement is ideal for applications such as gymnasiums, ice rinks, arenas, churches, bars/nightclubs and much more.

PATENTED SOUNDSPHERE TECHNOLOGIES

Soundsphere and MSE Audio Group constantly develop new technologies that enhance audio product performance. Soundsphere innovations are protected by multiple patents, which explicitly cover Soundsphere's dispersion and enclosure technologies. MSE Audio Group actively defends its patents in order to protect Soundsphere resellers and end users.

TECHNICAL DATA AND SPECIFICATION TOOLS

Technical Data

Soundsphere strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from Soundsphere or at www.soundsphere.com.

Technical data and downloads include:

EASE™ Data — 3-D polar plots

EASE™ Address — 2-D modeling for distributed systems

Technical Data Sheets — Technical information and architectural specs for system engineers

Distributed System Quick Planning Guide — Online configuration tool and step-by-step guide are available to assist in the design of effective public area distributed sound systems

using Soundsphere omnidirectional loudspeakers

Independent Data Acquisition and Verification

All data for Soundsphere loudspeakers is independently collected from and verified by an industry-recognized independent testing facility. All data is collected and analysed according to ASTM, ISO and AES standards using EASERA, TEF and MLSSA. Full balloon data including both phase and magnitude is compiled into a variety of formats including EASE 4.x, GLL and CLF.

ARCHITECTURAL SPECIFICATIONS

The loudspeaker driver shall consist of a dual 18-inch (457 mm) treated pulp fiber woofer.

Performance specifications of a typical production unit shall be as follows: Useable frequency response shall extend from 40 Hz to 200 kHz (-10 dB). Measured sensitivity (1 Watt/1 meter) shall be at least 99 dB. The speaker shall have a rated impedance of 4 ohms. Rated power capacity shall be at least 800 Watts continuous (RMS) and conform to EIA-426-B testing. Calculated maximum continuous output at 1 meter shall be 128 dB.

The complete loudspeaker shall be no more than 32 inches (813 mm) in height and 27-3/4 inches (705 mm) wide. The driver shall be mounted in a spherical enclosure made of fiberglass with gelcoat finish that is no more than 32 inches (813 mm) in diameter. The complete loudspeaker shall weigh no more than 82 lbs. (37.2 kg). All hardware shall be rust- and corrosion-resistant stainless or plated steel. The loudspeaker shall be equipped with three eyebolts to facilitate hanging.

Optional accessories shall include: an Electronic Crossover (Q-CX), a Universal Beam Clamp (BCL) and a Hanging Kit (HKXL) for three-point suspension.

The system shall be the **Soundsphere® Model Q-SB2** sub-bass supplement.

WARRANTY

Soundsphere® loudspeakers are warranted against failure or malfunction due to defects in materials or workmanship for a period of five years from date of original purchase. Speaker electronics are warranted for three years. Defective units will be repaired or replaced at our option if delivered prepaid to our factory. Repaired or replaced units will be returned at our expense. Warranty does not cover appearance or damage caused by abuse, misuse, neglect, accident, or exceeding maximum rated power. Warranty does not cover labor costs involved in removing and/or reinstalling the defective unit, nor any liability due to accidents caused by improper installation. Warranty is extended to original purchaser and is not transferable.



All specifications are subject to change without notice.

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