



For Finished Ceiling Installations Requiring:

- Clear Voice Announcements
- High Fidelity Music Reproduction
- High Sound Pressure Levels

Features:

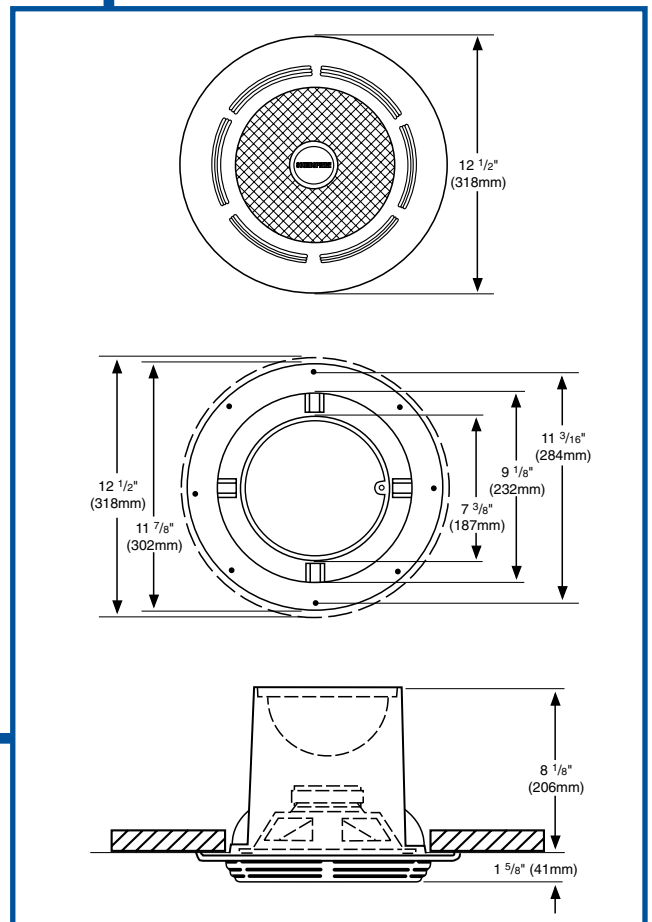
- High SPL capability (114dB 100W/1m)
- Smooth hemispherical coverage pattern
- Accurate, full range voice announcements
- High fidelity music reproduction up to 90° off axis, at any volume level
- High sensitivity (94dB 1W/1m)
- Fewer units produce results superior to conventional ceiling loudspeakers
- Exclusive patented Broadband Linear Excursion Control for high sensitivity and accurate, articulate low frequency performance
- Exclusive patented Exponential Diffusion Control for smooth mid and high frequencies throughout the coverage area at any volume level
- Fits standard 8" ceiling speaker opening with industry standard mounting fastener pattern

Q-Series

MODEL Q-CS100 LOUDSPEAKER

Applications:

- Ballrooms
- Exhibition Centers
- Transportation Facilities
- Home Theaters
- Residential Distributed Audio Systems
- Restaurants
- Bars/Nightclubs
- Hotel Lobbies
- Large Retail and Grocery Stores with high finished ceilings
- Finished ceiling applications where good intelligibility and high fidelity music at high sound pressure levels are required



SOUNDSPHERE®

Division of Sonic Systems, Inc.

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Specifications:

Sensitivity	94dB 1 Watt/1 meter
Maximum SPL	114dB 100 Watts/1 meter
Power Handling	100 Watts RMS
Nominal Impedance	8 ohms
Frequency Response	45Hz - 16kHz ±5dB
Coverage	180° vertical 360° horizontal
Weight	11 lbs. (5 kg)
Shipping Weight	13 lbs. (5.9kg)
Size	Enclosure: 7 3/8" dia x 8 1/8" high (187mm x 206mm)
	Mounting Flange: 11 7/8" dia (302mm)
	Grille: 12 1/2" dia x 1 5/8" high (318mm x 41mm)
Driver	Coaxial: 8" LF 1/2" dome HF
Enclosure Material	ABS Resin

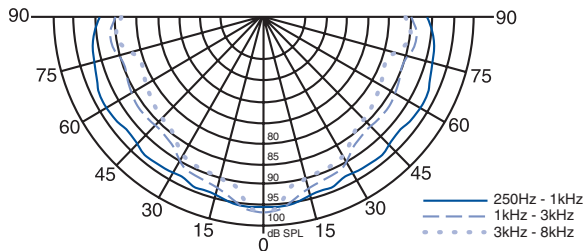
Spacing in Multiple Loudspeaker Systems in Feet (Meters)

Direct Field SPL Variation in dB				
	3 (±1.5)	4 (±2.0)	5 (±2.5)	6 (±3.0)
10 (3.05)	21 (6.40)	24 (7.32)	27.5 (8.38)	32 (9.76)
12 (3.65)	27 (8.23)	32 (9.76)	36 (10.98)	42 (12.81)
14 (4.25)	33 (10.06)	38 (11.59)	45 (13.72)	52 (15.85)
16 (4.85)	39 (11.88)	44 (13.41)	54 (16.46)	62 (18.90)
18 (5.45)	46 (14.02)	54 (16.46)	63 (19.20)	72 (21.94)
20 (6.10)	52 (15.85)	62 (18.90)	72 (21.94)	82 (24.99)
22 (6.70)	60 (18.29)	70 (21.33)	81 (24.69)	92 (28.04)
24 (7.30)	66 (20.12)	78 (23.77)	90 (27.43)	102 (31.09)

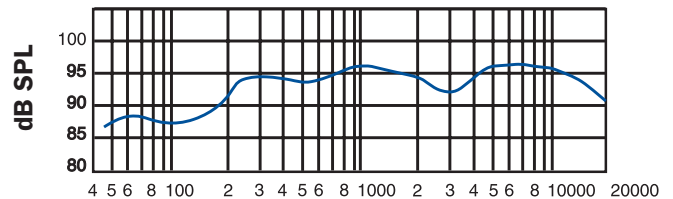
Floor to Ceiling Height in Feet (Meters)

Direct Field SPL (dB) vs. Power and Mounting Height				
Power per Loudspeaker in Watts				
	100	50	25	12.5
10 (3.05)	108.7	105.7	102.7	99.7
12 (3.65)	106.3	103.3	100.3	97.3
14 (4.25)	104.3	101.3	98.3	95.3
16 (4.85)	102.7	99.7	96.7	93.7
18 (5.45)	101.4	98.4	95.4	92.4
20 (6.10)	100.2	97.2	94.2	91.2
22 (6.70)	99.2	96.2	93.2	90.2
24 (7.30)	98.3	95.3	92.3	89.3

Floor to Ceiling Height in Feet (Meters)



Vertical Polar Response



Hemispherical Power Response 1W/1m

Architects and Engineers Specifications

The loudspeaker shall be a self contained, wide range device with a broad coverage pattern. The frequency response shall be 45Hz to 16kHz ± 5dB; the vertical polar coverage shall be 180°.

The loudspeaker shall have a minimum sensitivity of 94dB SPL at 1 Watt/1 meter, a continuous power handling capability of 100 Watts, and a rated impedance of 8 ohms.

The loudspeaker driver shall be one 8 inch woofer with a 1/2 inch dome tweeter mounted coaxially. The driver shall be mounted in a cylindrical enclosure molded from ABS resin. Hardware shall be stainless or plated steel. An optional steel or aluminum bridge shall be available for supporting the loudspeaker in suspended ceiling tiles. An optional steel rear enclosure shall be available for using the loudspeaker in plenum ceilings. A decorative grille shall be provided.

The loudspeaker enclosure shall measure 7.375 inches (187mm) in diameter and 8.125 inches (206mm) in height. The enclosure mounting flange shall be 11.875 inches (302mm). The decorative grille shall be 12.5 inches (318mm) in diameter and 1.625 inches (41mm) in height. The complete loudspeaker shall weigh 11 lbs. (5 kg).

The loudspeaker shall be the **SoundSphere® Model Q-CS100**.

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. 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.