

Q-6

Model Q-6 Compact, Weatherproof Loudspeaker

SOUNDSPHERE
LOUDSPEAKERS



Specifications: Q-6

Mounting hardware included

Nominal Impedance	4 ohms
Power Handling	35W
Sensitivity dB @ 2.83V/1M	93 dB
Sensitivity dB @ 1W/1M (2)	88 dB
Frequency Response (± 3 dB)	220 Hz - 20 kHz
Frequency Response (± 10 dB)	70 Hz - 20 kHz
Max. Program Power	70 W
Max. Continuous Power RMS	35 W
Max. Power SPL @ 1 M	105.5 dB
Max. Power SPL @ 4M	93.5
70.7 Volt Transformer Taps	30 / 104.8
100 Volt Transformer Taps (dB)	30 / 104.8
25 Volt Transformer Taps (dB)	30 / 104.8
Transformer insertion loss (dB)	≤ 1 dB
Transformer Options	Optional 30 W
Transducer - Low Frequency Driver	6.5" Polypropylene
Low Frequency Voice Coil	25.4 mm / 1"
Coverage Angles	Vertical / 180
Coverage Angle (-6 dB @ 2 kHz) raw	175
Enclosure alignment	Sealed
Enclosure - material	Structural foam polystyrene with rustproof hardware
Enclosure - description	Gloss black or textured white
Inputs	Hard-wire leads
Height (SM = Height)	302 mm / 11-7/8"
Diameter (SM = Width)	Sphere: 254 mm / Sphere: 10"
Weight	3.6 kg / 8 lbs
Shipping Weight	5 kg / 11 lbs
Packaging	One per box
Regulatory - CE	approved
Regulatory - RoHS	approved

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Key Features

- » Fully weatherproof for year-round exposure to the elements
- » Hemispherical coverage pattern
- » Accurate, full-range voice announcements
- » Enhanced high-fidelity music reproduction
- » Fully assembled and ready to mount
- » Hanging or surface mount
- » Standard white (paintable) and custom colors available
- » Available with onboard amplification (Model Q-6 Power2)

Description

For full-range music and voice:

- Health Clubs
- Sports Bars
- Restaurants
- Hotel Lobbies
- Classrooms
- Retail Stores
- Shopping Center Common Areas & Food Courts
- Outdoor applications requiring weatherproof speakers
- And anywhere full-range music & voice in a compact omnidirectional speaker are required.

The Q-6 is Soundsphere's most compact weatherproof loudspeaker, offering omnidirectional full-range music and clear voice announcements for both indoor and outdoor installations. Applications for the Q-6 include health clubs, sports bars, restaurants and a wide variety of outdoor applications.

The Q-6 loudspeaker offers a hemispherical coverage pattern and comes fully assembled and ready to mount using our hanging kit or mounting bracket. Colors available in gloss black or textured white.

Applications

Providing full-range music and voice in a compact, weatherproof enclosure, the Q-6 loudspeaker is ideal for applications such as health clubs, sports bars, restaurants, hotel lobbies, classrooms, retail stores, shopping center common areas, food courts, outdoor applications requiring weatherproof speakers.

Patented Soundsphere Technologies

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

Soundsphere resellers and end users.

Patented Soundsphere Technologies

Soundsphere and MSE Audio Group constantly develop new technologies that enhance audio product performance. Soundsphere innovations are protected by multiple U.S. and international patents, which explicitly cover Soundsphere dispersion, enclosure and dome 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 SoundTube Entertainment or at www.soundtube.com. Technical data and downloads include: EASE™ data - 3-D polar plots. EASE™ Address - 2-D modeling for distributed systems Autodesk® Revit® software Tech Sheets - Technical information and architectural specs for system engineers SoundTubeSPEC™ - Proprietary speaker placement software

Data Acquisition and Verification

All data for Soundsphere speakers are independently collected from and verified by NWA Labs (www.nwalabs.com) using their proprietary MACH testing system. All data are collected and analyzed according to ASTM, ISO and AES standards using EASRA, TEF and MLSSA. Full balloon data including both phase and magnitude are compiled into a variety of formats including EASE 4.x, GLL and CLF.

Architectural Specifications

The loudspeaker driver shall consist of one 6.5-inch (165 mm) polypropylene woofer with a 0.5-inch (12.7 mm) mylar dome tweeter mounted coaxially. Performance specifications of a typical production unit shall be as follows: Useable frequency response shall extend from 70 Hz to 20 kHz (-10 dB). The vertical polar coverage shall be 175° ±6 dB. Measured sensitivity (1 Watt/1 meter) shall be at least 90 dB. The speaker shall have a rated impedance of 4 ohms. The speaker shall be available for 25-, 50-, 70- and 100-Volt modes and shall include 7 power tap selection leads for use with electrical wire nuts or crimp caps. Rated power capacity shall be at least 35 Watts continuous (RMS) and conform to EIA-426-B testing. Calculated maximum continuous output at 1 meter shall be 105.5 dB. The driver shall be constructed of inorganic materials that are impervious to

environmental contaminants (weather, ozone, UV, chlorine, salt, etc.). The complete loudspeaker shall be no more than 11.875 inches (302 mm) in height. The driver shall be mounted in a spherical enclosure made of structural foam polystyrene that is no more than 10 inches (254 mm) in diameter. The reflector shall be no more than 14.875 inches (378 mm) in diameter. The complete loudspeaker shall weigh no more than 8 lbs. (3.6 kg). Hardware shall be rust and corrosion resistant. Optional accessories shall include: a 30-Watt Line Matching Transformer TX30) with taps for 25-, 50-, 70- and 100-Volt constant voltage systems; a Mounting Bracket (MBS) to mount flat against a ceiling surface; a three-element Hanging Kit (HK) for single-point suspension; a 24" Hanging Kit Extension (HKEXT); a Beam Clip (BC) for mounting to a beam flange; a Drop Ceiling Bracket (DCB); a Small Screen (SS) to protect the speaker from foreign objects; a Small Screen with Weather Filter (SWFS) that additionally offers a water protection barrier; and a Dust Filter (Q6SF). An optional 30-Watt onboard amplifier (Power2) makes a separate amplifier unnecessary in applications where only a single wide-dispersion speaker is required for coverage. The system shall be the Soundsphere® Model Q-6 for wide-range, wide-coverage sound dispersion.

Soundsphere

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All Soundsphere products come with a 5-year limited warranty.

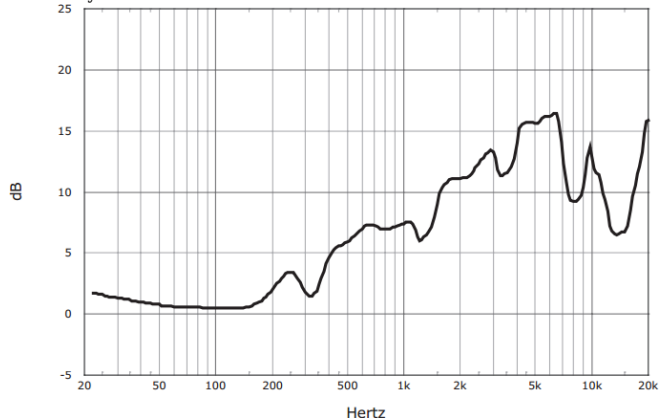
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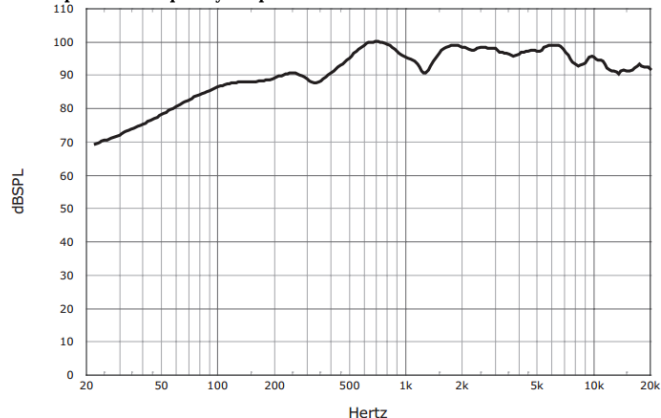
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Graphs and Plots

Directivity Index



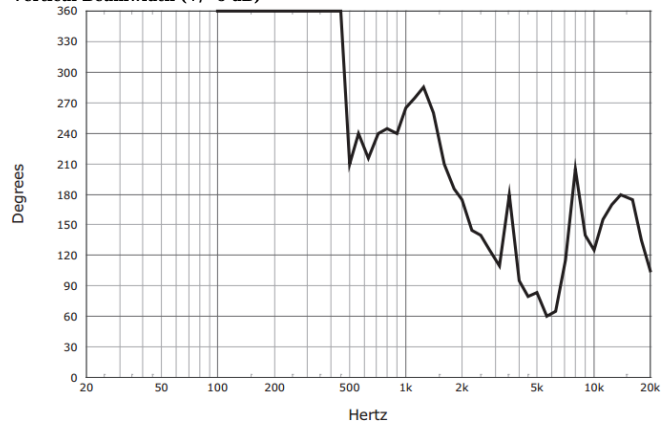
Hemispherical Frequency Response



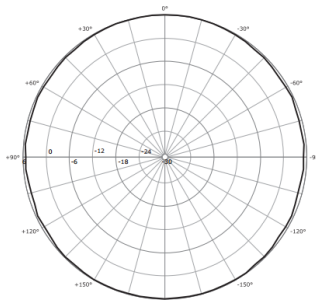
Impedance/Phase



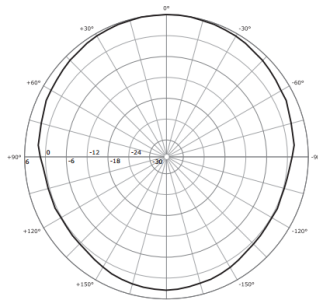
Vertical Beamwidth (+/- 6 dB)



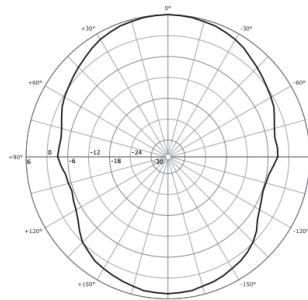
125 Hz



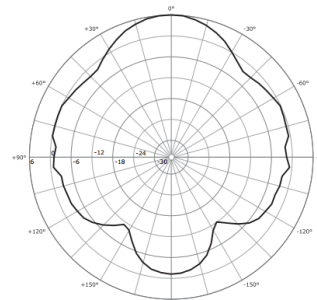
250 Hz



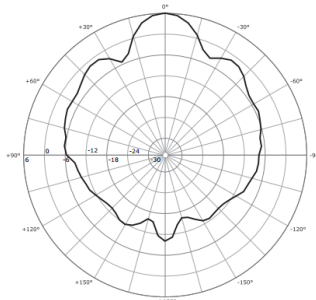
500 Hz



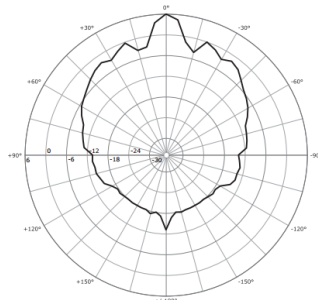
500 Hz



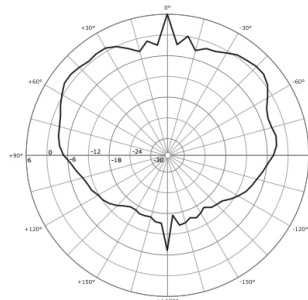
2000 Hz



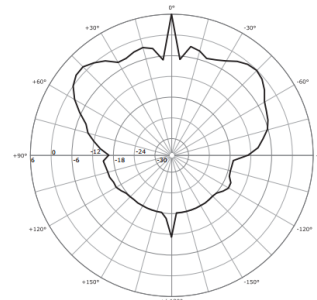
4000 Hz



8000 Hz



8000 Hz

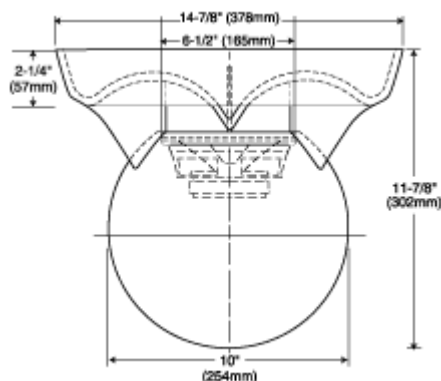


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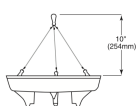
Mechanical Drawings



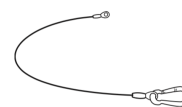
Optional Accessories



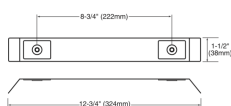
Line Transformer (TX30)



Hanging Kit (HK)



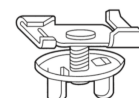
Hanging Kit Extension (HKEXT)



Mounting Bracket (MBS)



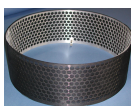
Beam Flange Kit (BC)



Drop Ceiling Bracket (DCB)



Driver Protection Screen (SS)



Driver Protection Screen (SWFS)

Dust Filter (Q6SF)