

Q-15

Model Q-15 Loudspeaker

SOUNDSPHERE
LOUDSPEAKERS



Specifications: Q-15

Mounting hardware included

Nominal Impedance	8 ohms
Power Handling	350W
Sensitivity dB @ 2.83V/1M	97 dB
Sensitivity dB @ 1W/1M (2)	97 dB
Frequency Response (± 0.25 dB)	35Hz to 15kHz
Frequency Response (± 3 dB)	90 Hz - 17 kHz
Frequency Response (± 10 dB)	50 Hz - 20 kHz
Max. Program Power	700 W
Max. Continuous Power RMS	350 W
Max. Power SPL @ 1 M	122.5 dB
Max. Power SPL @ 4M	110.5
70.7 Volt Transformer Taps	250 / 121.0
100 Volt Transformer Taps (dB)	250 / 121.0
Transformer insertion loss (dB)	≤ 1
Transducer - Low Frequency Driver	15" Treated Pulp Fiber
Low Frequency Voice Coil	114 mm / 4-1/2"
Coverage Angles	Horizontal / 360
Coverage Angle (-6 dB @ 2 kHz) raw	85
Enclosure - material	Fiberglass with gelcoat nish; rust-resistant hardware
Enclosure - description	White (paintable) and black
Inputs	Hard-wire leads
Height (SM = Height)	840 mm / 33"
Diameter (SM = Width)	Sphere: 685 mm / Sphere: 27"
Weight	28.6 kg / 63 lbs
Shipping Weight	39.9 kg / 88 lbs
Packaging	One per box
Regulatory - CE	approved
Regulatory - RoHS	approved

Key Features

- » Hemispherical coverage pattern
- » Accurate, full-range voice announcements
- » High-fidelity music reproduction
- » High sensitivity (94 dB 1 W/1 m)
- » High SPL capability (119.5 dB 1 m)
- » High power handling capability (350 W continuous RMS)
- » Standard white (paintable) and black available

Description

This product has been discontinued.

Limited quantity is still available for sale. Call our office at 913.663.5600 for more details.

For extended low-frequency response at high sound pressure levels:

- Gymnasiums
- Ice Rinks
- Arenas
- Churches
- Swimming Pools
- Open Public Areas
- Bars & Nightclubs
- And applications where clear voice announcements and high-fidelity foreground music with extended low-frequency performance at high sound pressure levels are required.

The Q-15 loudspeaker is designed to offer accurate, full-range voice announcements and high-fidelity music reproduction. It is suitable for applications requiring extended low-frequency response at high sound pressure levels.

The Q-15 offers high power handling capability (350W RMS), high sensitivity (97dB 1W/1m) and high SPL capability (122.5dB 350W/1m). Both standard and custom colors are available.

Applications

Providing high-power, high-fidelity foreground music and voice with extended low-frequency at high sound pressure levels, the Q-15 loudspeaker is ideal for applications such as gymnasiums, ice rinks, arenas, churches, swimming pools, open public areas, 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 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 NWAALabs (www.nwaalabs.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 15-inch (381 mm) treated pulp fiber woofer with coaxial 4-inch titanium compression driver sharing a common magnetic circuit. Performance specifications of a typical production unit shall be as follows: Useable frequency response shall extend from 50 Hz to 20 kHz (-10 dB). The vertical polar coverage shall be 145° ±6 dB. Measured sensitivity (1 Watt/ 1 meter) shall be at least 94 dB. The speaker shall have a rated impedance of 4 ohms. The speaker shall be available for 70- and 100-volt modes and shall include 4 power tap selection leads for use with electrical wire nuts or crimp caps. Rated power capacity shall be at least 350 Watts continuous (RMS) and conform to EIA-426-B testing. Calculated maximum continuous output at 1 meter shall be 119.5 dB. The complete loudspeaker shall

be no more than 33 inches (840 mm) in height. The driver shall be mounted in a spherical enclosure made of fiberglass with gelcoat finish that is no more than 27 inches (685 mm) in diameter. The reflector shall be no more than 32 inches (815 mm) in diameter. The complete loudspeaker shall weigh no more than 63 lbs. (28.6 kg). Hardware shall be rust and corrosion resistant, constructed of stainless steel, plated steel or aluminum. Optional accessories shall include: a 250-Watt Line Matching Transformer (TX250) with taps for 70- and 100-Volt constant voltage systems; a three element Hanging Kit (HKL) for single point suspension; and a Universal Beam Clamp (BCL). The system shall be the Soundsphere® Model Q-15 for wide-range, wide-coverage sound dispersion and extended low frequency response.

Soundsphere

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

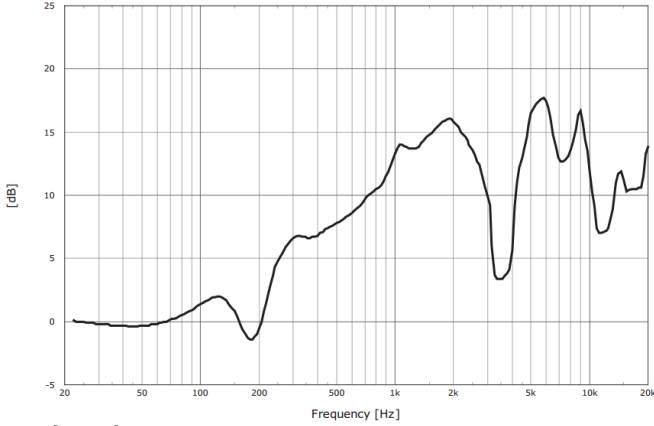
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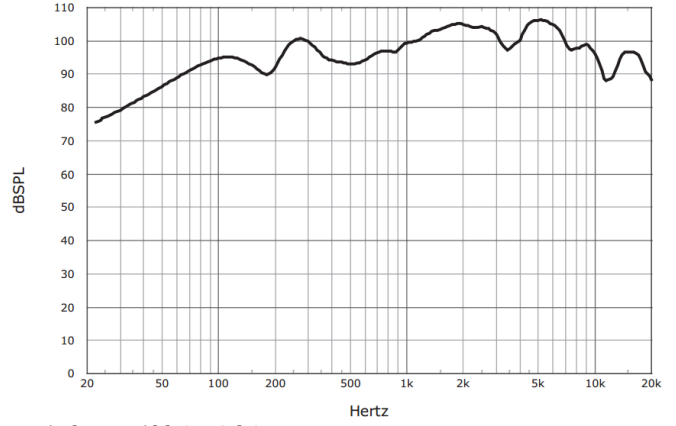
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Graphs and Plots

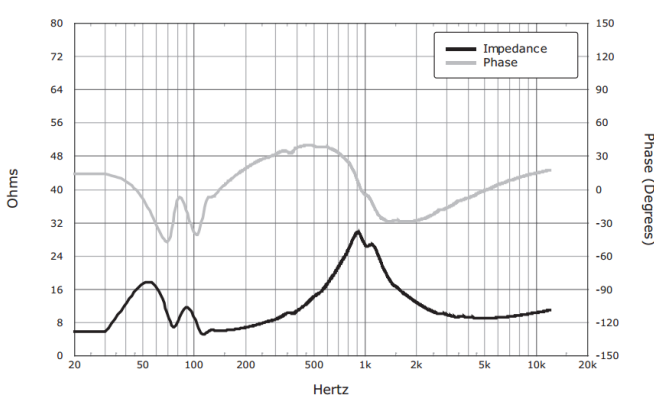
Directivity Index



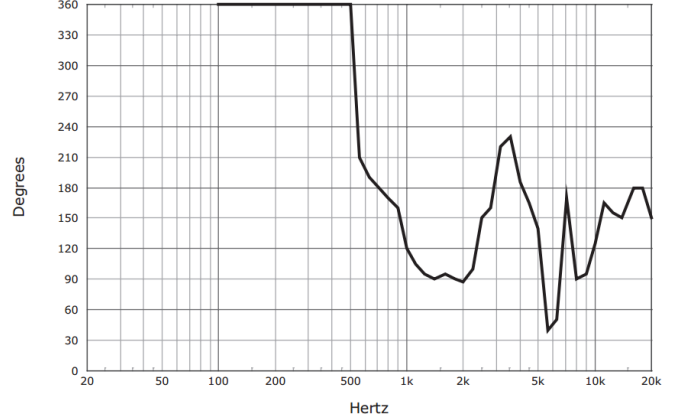
Hemispherical Frequency Response



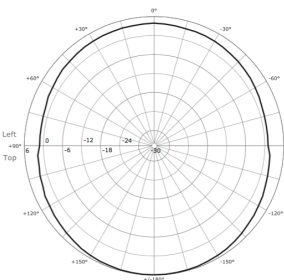
Impedance/Phase



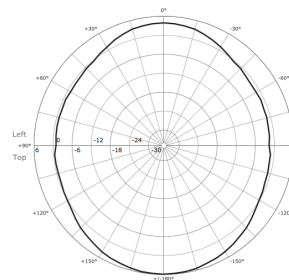
Vertical Beamwidth (+/- 6 dB)



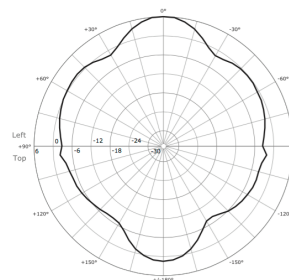
125 Hz



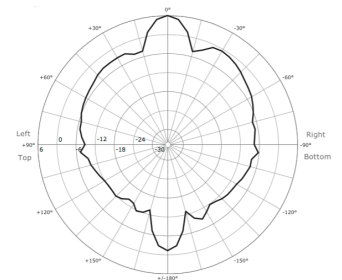
250 Hz



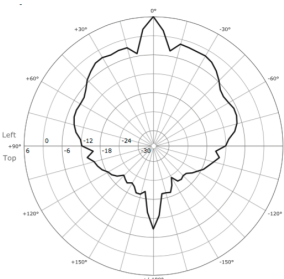
500 Hz



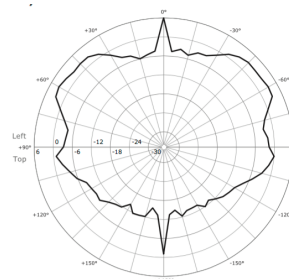
500 Hz



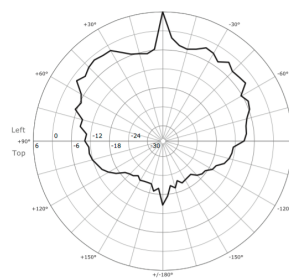
2000 Hz



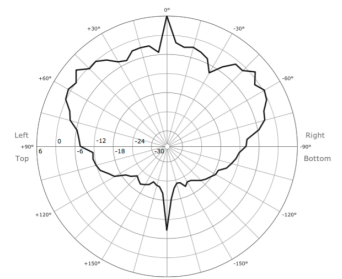
4000 Hz



8000 Hz



8000 Hz

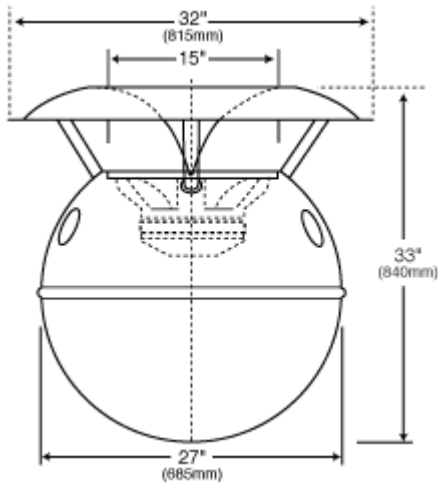


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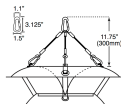
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Mechanical Drawings

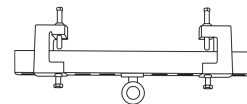


Optional Accessories

**Line Transformer
(TX250)**



Hanging Kit (HKL)



**Universal Beam Clamp
(BCL)**