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TQ-425

QLIGHT™ SERIES ENGINEERING INFORMATION

The TQ-425 is a front loaded vented subwoofer enclosure designed to extend the low frequency response of the TQ-440. It is equally suited to mobile use in corporate, industrial and audio-visual applications as well as permanent sound reinforcement installations.

It consists of two 4” voice coil 15” low frequency drivers in a compact vented enclosure, optimally tuned to reproduce high sound pressure levels at bass and sub-bass frequencies.

The TQ-425 is designed for use with the LMS-D6 digital loudspeaker management system, which provides 24dB/octave crossovers and a wide range of factory preset programs for QLight series and other Turbosound products. When used with the LMS-D6 and TQ-440, the TQ-425 creates a very high quality sound reinforcement system ideally suited for all types of corporate, industrial theatre and audio visual applications, whether mobile or permanently installed.

The enclosure is constructed from 3/4” (18mm) birch plywood, heavily braced internally, glued and screwed together for maximum strength. It is finished in a durable black semi-matt textured paint (also available in TurboBlue™ textured paint). The loudspeaker drive units are protected by a foam/expanded steel mesh grille.

Flush handles are provided for easy lifting and carrying, and a pole mount socket is included on the top of the cabinet to allow a TQ-440 enclosure to be mounted at the correct distance above the subwoofer.

Two Neutrik Speakon NL4MP connectors provide input and loop out connections to the enclosure. The TQ-425 is fitted with four heavy duty wheels to enable easy transportation.

Recommended complementary products:

TQ-230, TQ-259, TQ-440 enclosures

LMS-D6, LMS-D4 loudspeaker management systems

FEATURES

High SPL

Compact enclosure

APPLICATIONS

Corporate / Industrial

Theatre

Audio Visual

Drum fills

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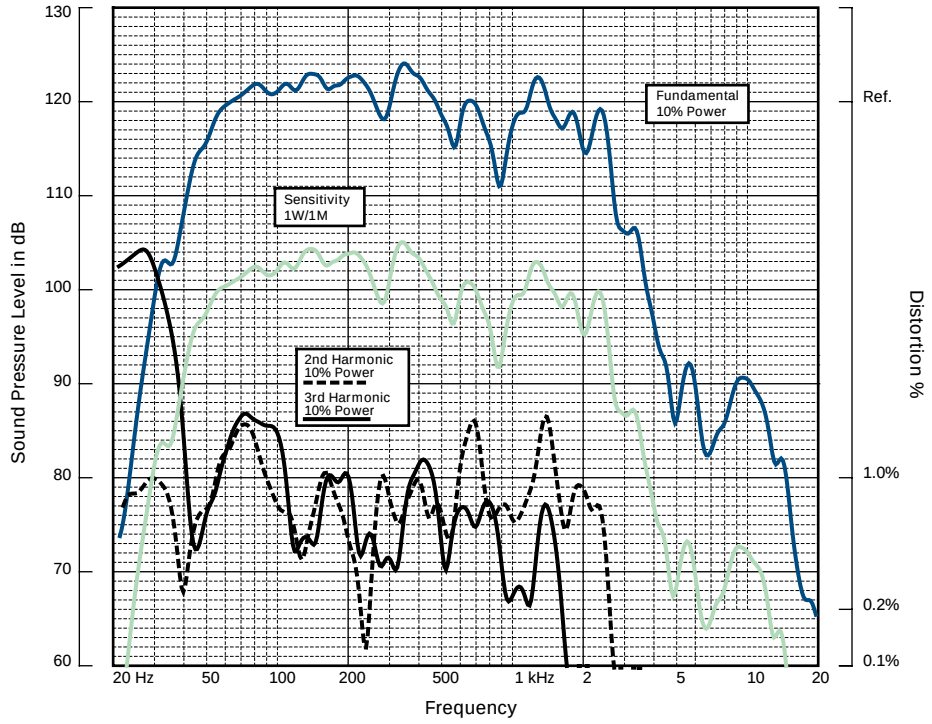
DIMENSIONS (HxWxD)	836mm x 511mm x 632mm (32.9” x 20.1” x 24.9”)
NET WEIGHT	68kgs (149.6 lbs)
COMPONENTS	2 x 15” (381mm) LF drivers
FREQUENCY RESPONSE[1]	45Hz - 200Hz ±4dB
POWER HANDLING	800 watts r.m.s., 1600 watts program Recommended amplifier power 1600 watts @ 4 ohms
SENSITIVITY	100dB, 1W @ 1 metre
MAXIMUM SPL	132dB continuous[3], 138dB peak[4]
NOMINAL IMPEDANCE	4 ohms
CONSTRUCTION	18mm (3/4”) birch plywood throughout; rebated, screwed and glued. Finished in black semi-matt textured paint. Recessed carrying handles. Integral 35mm pole mount. Four heavy duty wheels
GRILLE	Reticulated foam on expanded steel mesh
CONNECTORS	(2) x Neutrik Speakon NL4MP, wired pin1+: +ve, pin 1-: -ve
OPTIONS	TurboBlue™ semi-matt textured paint

SPARES AND ACCESSORIES

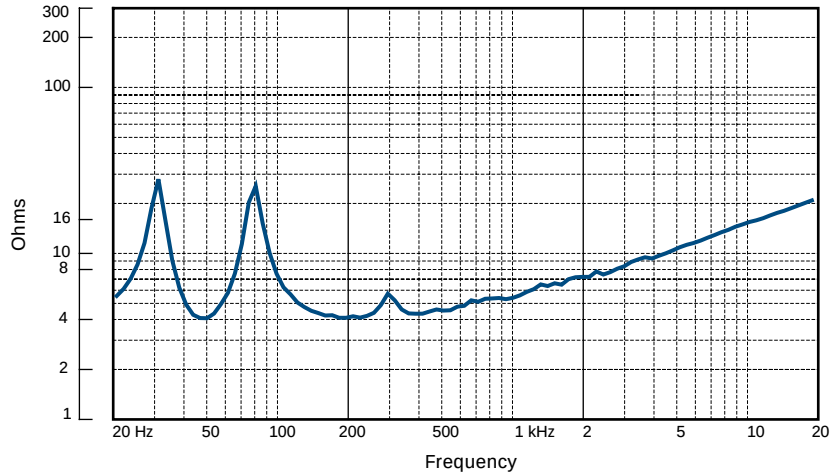
LS-1518	15” (381mm) LF loudspeaker
RC-1518	Recone kit for LS-1518
MG-425	Replacement foam / metal grille

Notes
[1]Measured on axis
[2]Average over stated bandwidth
[3]Unweighted diode-clipped pink noise. Measured in a half space environment.
[4]Verified by subjective listening tests of familiar program material, before the onset of perceived signal degradation.

FREQUENCY RESPONSE



IMPEDANCE



NOTES ON MEASUREMENT CONDITIONS

Frequency response The frequency response shown was obtained by feeding a swept sine wave through the system in a half space environment. The position of the microphone was vertically on-axis at a distance of 2 metres, then scaled to represent 1 metre. **2nd & 3rd Harmonic Distortion** Distortion measurements were obtained using an Audio Precision harmonic distortion analysis system and comply with AES recommendations for enclosure measurement (AES paper ANSI S4-26-1984). **Data Conversion** All graphs were digitally generated using the APEX custom software system, designed to translate data derived from Audio Precision 'System One' test equipment into AutoCAD™. This program enables graphical information to be plotted to a high degree of accuracy.

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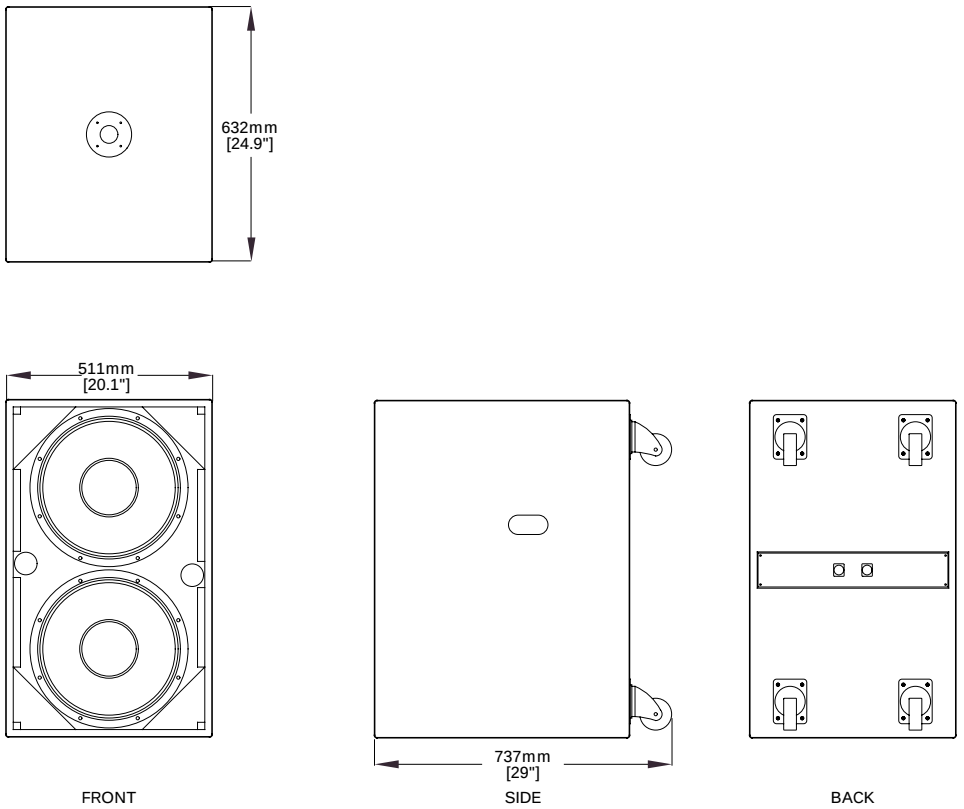
ARCHITECTURAL & ENGINEER'S SPECIFICATIONS

The loudspeaker shall be of the mono-amplified type, consisting of two reflex loaded 15" (381mm) low frequency loudspeakers in a vented enclosure. Performance specifications of a typical production unit shall be: Frequency response, measured with swept sine wave input, shall be flat within ±4dB from 45Hz to 200Hz. Nominal impedance shall be 4 ohms. Power handling shall be 800 watts r.m.s., 1600 watts program, 2000 watts peak. Sensitivity, measured with 1 watt input at 1 metre distance on axis, mean averaged over stated bandwidth, shall be 100dB. Maximum SPL (peak) measured with music program at stated amplifier power shall be 138dB. Dimensions: 836mm x 511mm x 632mm (32.9" x 20.1" x 24.9"). Weight: 68kgs (149.6 lbs). The loudspeaker shall be the Turbosound TQ-425. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance/size specifications are equalled or exceeded.

DIMENSIONS



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