

QUBE Q 115

REINFORCEMENT LOUDSPEAKER

DESIGNED BY
RENKUS-HEINZ
FOOTHILL RANCH, CA, U.S.A.



KEY FEATURES

- ▶ Enclosure in 18 mm birch wood
- ▶ Custom 15" neodymium woofer with 3" coil
- ▶ 2" driver with 3" coil
- ▶ Dual-mode passive filter
- ▶ Full Range or Bi-amp operation mode

APPLICATION

- ▶ Fixed installation
- ▶ Theatres
- ▶ Disco
- ▶ Concert venue
- ▶ Band-pass

GENERAL DESCRIPTION

The Q 115 is a full-range, 2-way bass reflex loudspeaker system. Equipped with a single neodymium 15" woofer (3" coil) and a 2" compression driver (3" coil) coupled to a constant directivity rotatable horn with 60°H x 40°V coverage. The outstanding performance of this speaker depends not only on the use of high quality transducers but also on precise design of passive cx-over. Designed for high sound levels (131.5 dB SPL), the Q 115 is perfect for every type of situation, from disco to concert venue.

With its controlled dispersion, low distortion and bass extension, the Q 115 is ideal in fixed installations in night clubs, pubs, theatres or sound reinforcements in live performance.

The cabinet is constructed from 18mm birch plywood finish in a durable and scratch resistant paint. Dual-mode passive filter with facility for full-range or bi-amp operation with external processing of the signal.

4M10 anchoring points for suspended installation and full compatibility with dedicated mounting hardware.

The connector panel's have dual Neutrik NL4 speakon for reliable input and loop through connections.

TECHNICAL SPECIFICATIONS

ELECTRICAL PERFORMANCE

	2 WAY	BI-AMP
Configuration	2 WAY	BI-AMP
Recommended amplifier (1)	800W rms	600W LF / 100W
Long term power AES (2)	400 W	400W LF / 80W HF
Short term power IEC 268-5	1400 W	1400W LF / 320W HF
Nominal impedance	8 ohm	8 ohm LF / 8 ohm HF
Frequency response @-6dB (3)	45 Hz - 18 kHz	45 Hz -18 kHz
Sensitivity @1W, 1m (4)	99.5 dB	99.5 dB LF / 108 dB HF
Max SPL (5)	131.5 dB	131.5 dB LF / 133 dB HF
Dispersion @-6 dB (HxV))	60° x 40°	60° x 40°
Crossover frequency	1.5 kHz	1.5 kHz - 24 dB oct.
Recommended HP filter	35 Hz - 24 dB oct.	35 Hz - 24 dB oct.

PHYSICAL

Low frequency woofer	1 x 15" - coil Ø 3"
High frequency driver	1 x 2" + coil Ø 3"
Input connectors	2 x speakon NL4 paralleled
Net dimensions (WxHxD)	473.5 x 750 x 480 mm
Net weight	35 kg
Enclosure materials	18 mm birch wood
Finish	wear-resistant textured black paint
Grille	black powder coated perforated steel with foam

Additional data:

automatic resetable driver protection
in full-range filter mode

(1) amplifier power on nominal loudspeaker impedance

(2) 2 hours, pink noise with crest factor 2, applied RMS voltage corresponding to the power on the minimum of the modulus of the impedance of the speaker in full range mode, or of the driver in bi-amp mode.

(3) full-space on axis

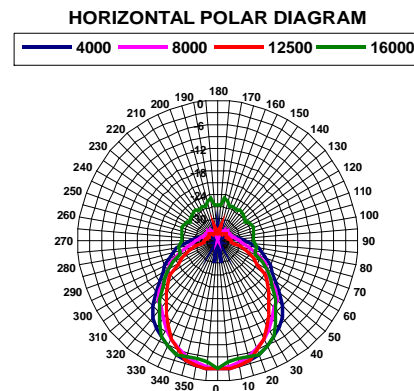
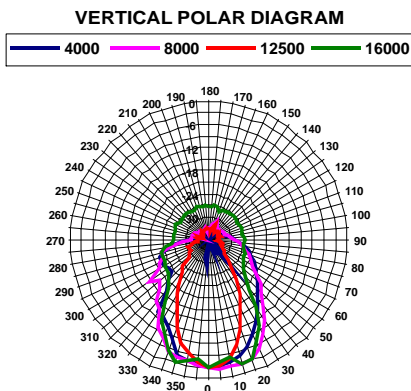
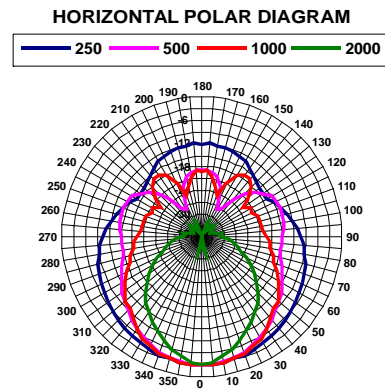
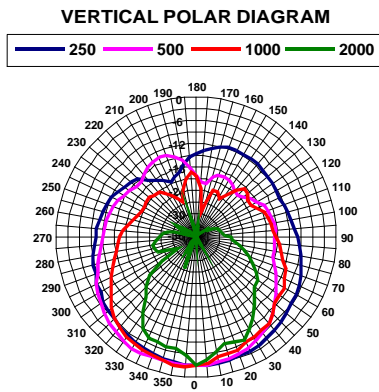
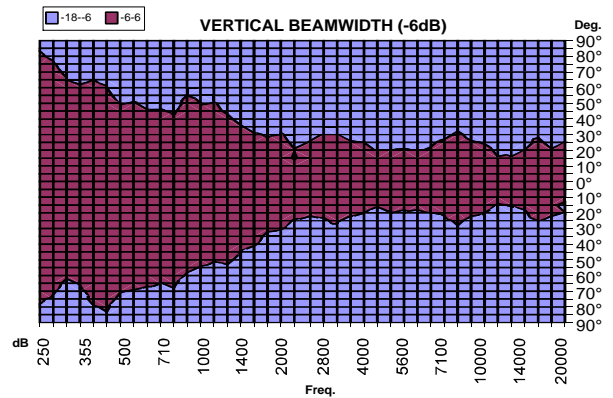
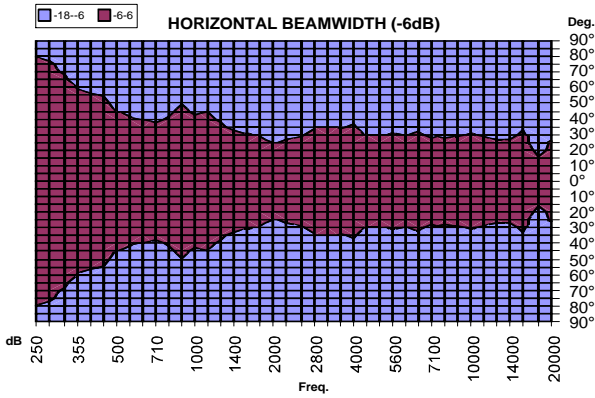
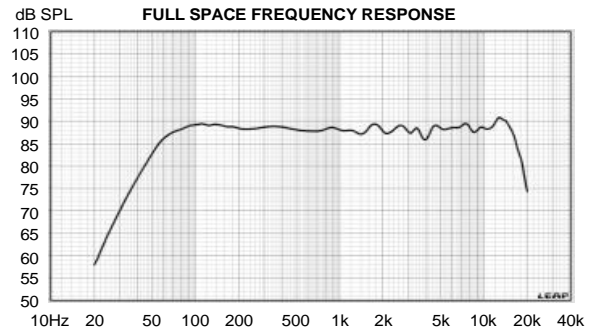
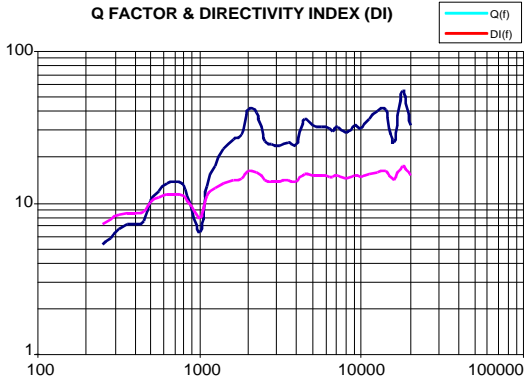
(4) average SPL measured over the freq. response range

(5) calculated based on short term power capacity and measured 1W, 1m full space sensitivity

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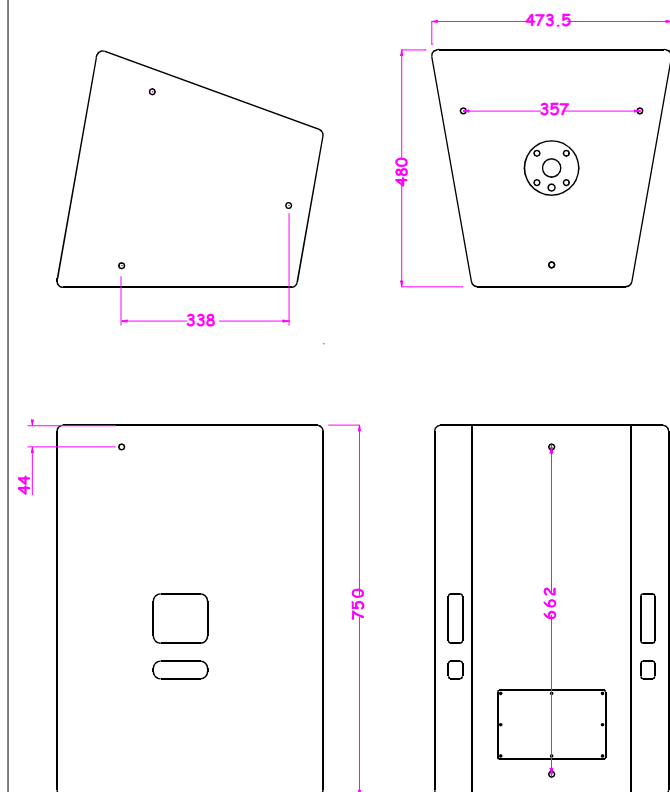
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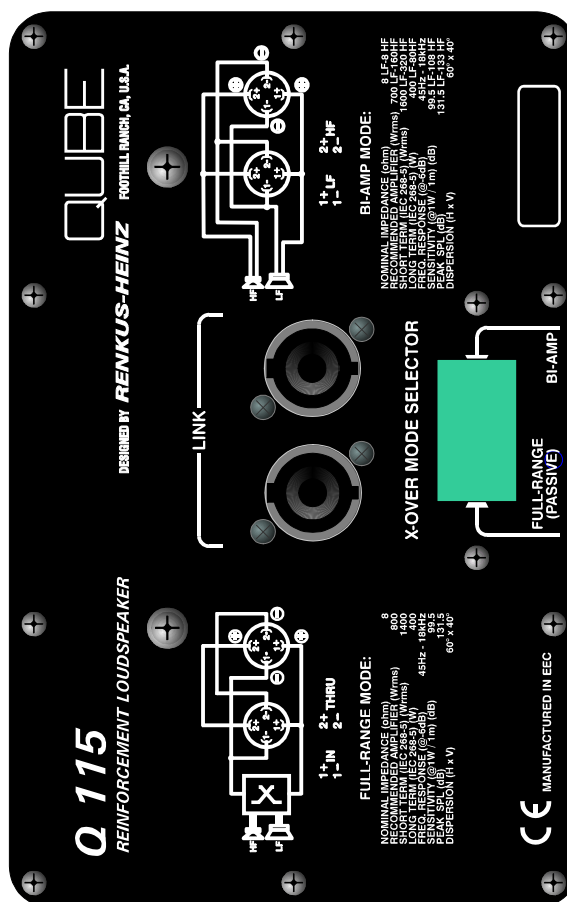
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DIMENSION DRAWINGS



INPUT PANEL & BLOCK DIAGRAM



ARCHITECTURAL & ENGINEERING SPECS.

The 2-way full range loudspeaker shall incorporate one 15" LF transducer and a 2" HF driver.

The HF driver shall be loaded on a rotatable horn with a nominal coverage pattern of 60° (H) x 40° (V).

An internal dual-mode passive filter with HF protection shall provide acoustical crossover and system equalization.

Input panel shall easily change from passive to biamp operation via internal connector.

System frequency response shall vary no more than +/- 6dB from 45Hz to 18kHz measured on axis.

The loudspeaker shall produce a sound pressure level (SPL) of 131.5 dB on axis at 1 meter.

It shall handle 400 watts of amplifier power long term (AES standard) and shall have a nominal impedance of 8 ohm.

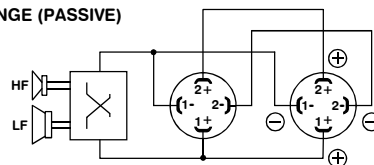
It shall be constructed of 18mm Baltic birch wood with internal reinforcement.

Input connectors shall be two NL4 speakon.

The front of loudspeaker shall be covered with a powder-coated perforated grille with foam.

The 2-way full-range loudspeaker shall be the QUBE model Q115

FULL-RANGE (PASSIVE)



BI-AMPLIFIED

