

General Product Description Rx-115/75

The Rx-115/75 is a two-way, full-range loudspeaker system that incorporates a 15-inch woofer and a 3-inch voice coil compression driver on an asymmetrical 75-degree x 50-degree fully-rotatable constant directivity horn.

In factory-delivered position, the horn provides a 15-degree up/35-degree down vertical coverage pattern. The five-sided cabinet design allows this main PA system cabinet to easily conform to duties as a floor monitor or to be tucked against a ceiling for low-profile applications. The fully rotatable horn means that regardless of the cabinet position, pattern coverage is fully user-determined.

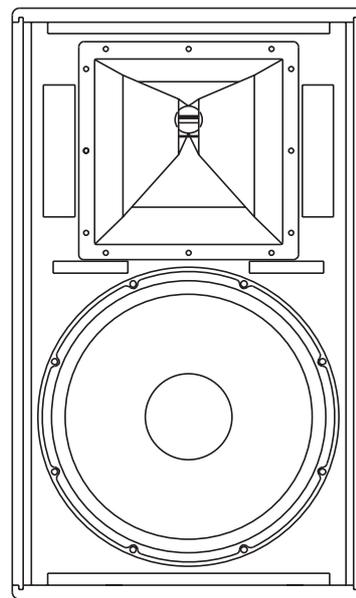
The Rx-115/75 is an excellent choice for small-to-medium size rooms when used as a main PA, as it provides moderate levels with good bass response in music or speech reproduction for DJs or live bands. The asymmetrical horn can allow a single box to more adequately direct the high frequencies where needed, such as when positioned above the audience for rear projection while still providing near-field coverage. In addition, streamlined multi-cabinet arrays can be accommodated by rotating the horn to opposite sides to extend horizontal coverage while minimizing overlapping and allowing tighter packs between the cabinets.

The M 115 processing module for modular P-series amplifiers provides optimized processing for fullrange use or in combination with any of the Rx-series subwoofers.

Rx-115/75 Loudspeaker System



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Speaker Description

LF Section & Components	15-inch woofer in vented enclosure
HF Section & Components	DH7 HF compression driver with 3-inch titanium diaphragm on asymmetric 75 x 50 horn
System Configuration	Two-way, full-range
Powering Configuration	Externally switchable passive or biamp
Recommended Active High-Pass Frequency (12 dB/octave min.)	45 Hz
Cabinet Type (shape)	Modified trapezoid
Enclosure Materials	13-ply birch plywood
Finish	Black textured paint
Connectors	Two Neutrik NL4
Suspension (optional)	prepared for Rx-rigging kit
Grille	Powder-coated perforated steel
Accessories	Rx-Rigging kit (2 L-tracks, 1 single stud plate incl. studs) M-115 processing module for P 1201, P 1202 system amplifier

Rx-115/75

Speaker System

Speaker Characteristics

Frequency Response

-10 dB	65 Hz-18 kHz
-10 dB*)	48 Hz-18 kHz
*) using M-115 module	

Axial Sensitivity

SPL, 1 watt @ 1 m, Passive	101 dB
SPL, 1 watt @ 1 m, Biamp (LF/HF)	101/112 dB

Impedance (nominal)

Passive	8 ohms
Biamp (LF/HF)	8/8 ohms

Power Handling

Passive - Long-term EIA	450 watts
Short-term peak	1800 watts
Biamp - LF Long-term EIA	400 watts
Short-term peak	1600 watts
Biamp - HF Long-term AES	75 watts
Short-term peak	300 watts

Calculated Maximum Output SPL

Long-term	127 dB
Peak	133 dB

Nominal Coverage Angle

Horizontal (-6 dB)	75°
Vertical (-6 dB)	+15/-35°

Dimensions

Height	759 mm	(29.90 in.)
Width at front	450 mm	(17.72 in.)
Width at back	193 mm	(7.59 in.)
Depth	407 mm	(16.02 in.)
Trapezoid angle	10° per side	

Weights

Net Weight	32 kg (71 lb)
Shipping Weight	35 kg (78 lb)

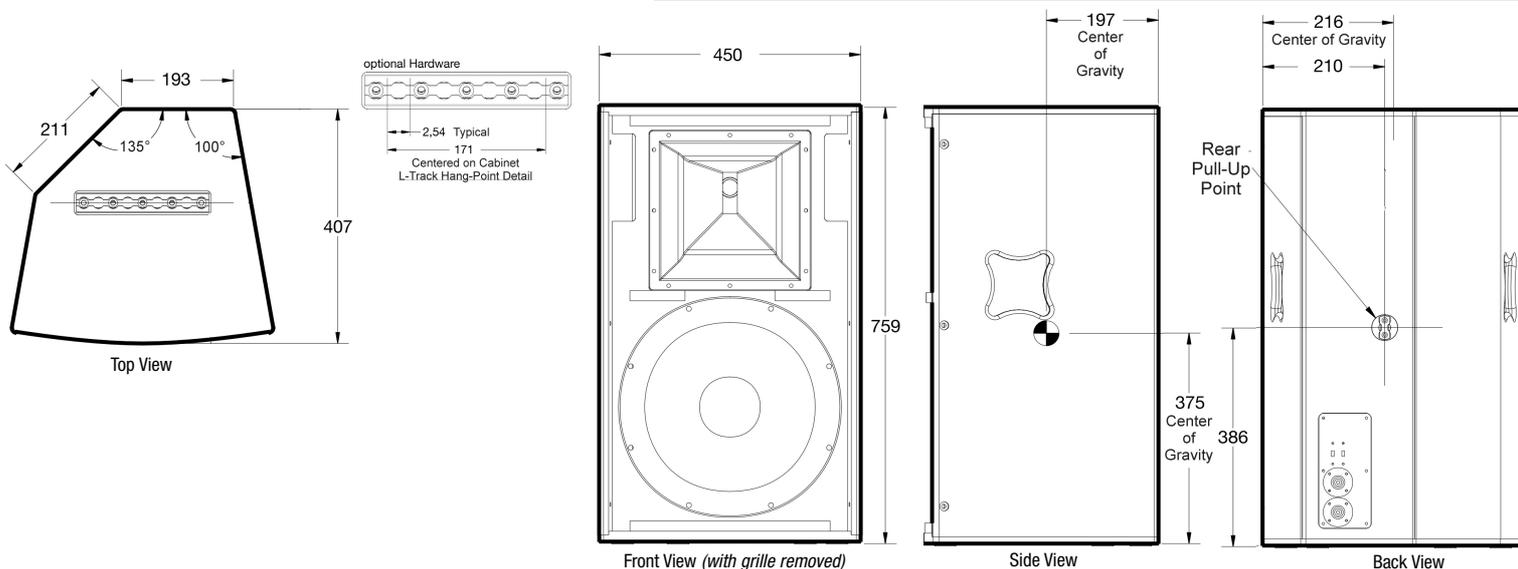
Architects' and Engineers' Specifications

Rx-115/75

The two-way, full-range loudspeaker system shall incorporate one 15-inch transducer with a cast aluminum basket as the LF component and one 3-inch diameter voice coil/diaphragm compression driver as the HF component. The compression driver shall be mounted on a 75-degree x 50-degree asymmetrical constant directivity horn with a factory delivered positioning of 15-degrees up/35-degrees down/50-degrees horizontal configuration. The horn shall be constructed of a material and design so as to be structurally capable of supporting the HF driver without any internal braces or suspension, thus allowing full 360-degree rotation of the horn. The enclosure shall be vented and tuned for optimum low-frequency extension. An internal passive filter network shall be included providing crossover filters or component band passes and nominal system voicing. The input panel shall incorporate two switches allowing external configuration between biamped or passive operation. Input connections shall be accommodated with two paralleled NL4 female Speakon® connectors.

Loudspeaker system frequency response shall be no less than 65 Hz to 18 kHz (-10 dB) measured on axis. The loudspeaker shall produce a sound pressure level (SPL) of 101 dB on axis at 1 meter with a power input of 1 watt and shall be capable of sustaining full power, long term average output of 127 dB on axis at 1 meter. The full-range system with passive network engaged shall handle 450 watts of amplified power long term in compliance with AES-EIA standards and have a nominal impedance of 8 ohms.

The loudspeaker enclosure shall be constructed of 13-ply void-free cross-grain-laminated birch plywood. It shall be finished in black textured paint. It shall have five sides with the fifth side angle as such to provide stable and safe placement of the cabinet on its side for floor monitor applications. Handles shall be recessed within the sides of the enclosure and of such design to allow safe handling from any direction. There shall be a 1-3/8 diameter pole mounting socket located on the bottom of the cabinet. The top and bottom of the enclosure shall be prepared for L-track rigging option and the rear shall have a pull-up point. The two-way full-range loudspeaker system shall be the Electro-Voice® model Rx-115/75.



Electro-Voice®

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