

## SPECIFICATIONS (See notes 1 & 2)

**Loudspeaker Type:** Horn-loaded Low Frequency System

**Operating Range:** 40 Hz - 300 Hz

50 Hz - 315 Hz (+/-3 dB with EQ)

**Maximum Input:**

800W continuous, 2000W program

98 volts RMS, 220 volts momentary peak

Recommended LF Power Amp:

1670W to 2400W @ 12 Ohms

**Sensitivity 1W/1m:**

107 dB SPL (50 Hz - 315 Hz 1/3 octave bands)

**Maximum Output:**

136 dB SPL / 143 dB SPL (peak)

**Nominal Impedance:**

12 Ohms

**Minimum Impedance:**

9.3 Ohms @ 80 Hz, 9 Ohms @ 30 Hz

**Nominal -6dB Beamwidth:**

90° H x 60° V (315 Hz)

**Axial Q / DI:** 12 / 10.8 @ 315 Hz

**Recommend Crossover Frequency:** 300 Hz

**Drivers:**

(3) 15 in / 318 mm, triple spider, cast frame

**Driver Protection:** None

**Input Connection:** (1) Neutrik NL8MP

(3) dual banana jacks

**Controls:** None

**Enclosure:** 13-ply 18 mm Baltic birch, Polane painted

**Enclosure Hardware:** None

**Mounting / Rigging Provisions:**

(8) 3/8-16 rigging points, W.L.L. 300 lb. vertical pull each

**Grille:** 16 gauge perforated steel

**Required Accessories:** Electronic system controller

**Supplied Accessories:** None

**Optional Accessories:** DSC42: digital speaker controller

EYBLTKIT: (4) forged 3/8-16 eyebolts

**Dimensions:**

Height: 46.5 in. / 1181 mm

Width (front): 27.6 in. / 702 mm

Width (rear): 9.5 in. / 242 mm

Depth: 45.5 in. / 1156 mm

**Weight:** 258 lb. / 117 kg

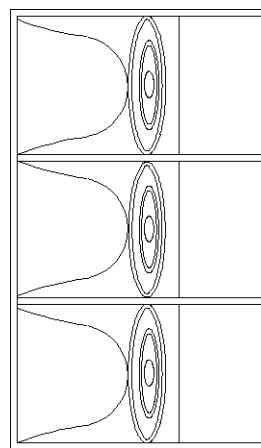
**Shipping Weight:** lb. / kg

**1. Sensitivities:** Free field pink noise measurements at 40 ft / 6.1 m at 10% power; extrapolated to 1 meter and an input voltage = square root of the nominal impedance.

**2. Watts:** All wattage figures are calculated using the rated nominal impedance.

**Options:**

CBS315FE with weather-resistant fiberglass exterior finish.



46.5 in.  
1181 mm

## DESCRIPTION

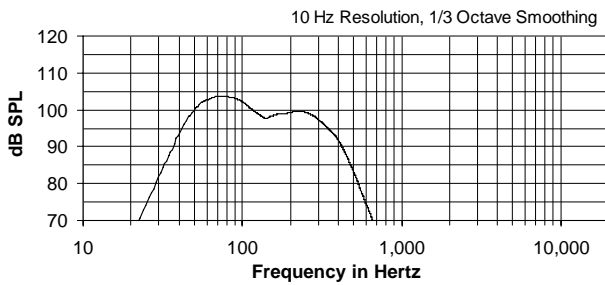
Community Professional Loudspeakers introducing the CBS315, a high output, high power, low frequency system expressly designed for long throw applications in the newer larger-style arenas, stadiums, and other large scale facilities. The system is capable of extremely high output levels with superb clarity and transient response. Horn loading for the drivers focuses the system's output in a tight 90 x 60 degree pattern over the upper part of its bandwidth with the pattern smoothly widening at the lower frequencies to maximize efficiency throughout the operating range. The CBS315 is specifically designed for arraying which effectively increases the pattern control and, through mutual coupling, the efficiency at lower frequencies.

The CBS315 uses three triple spider, high sensitivity 15 inch drivers with powerful, heavy-duty motor structures. The triple spider suspension maintains secure control over the voice coil centering even at extreme drive levels. In addition it provides superior damping for the cone preventing bass overhang and enhancing the transient response of the system. High stiffness-to-mass ratio cones and high linearity, long-throw suspensions ensure low distortion at high drive levels. All drivers are designed by Community and manufactured to strict quality and tolerance standards.

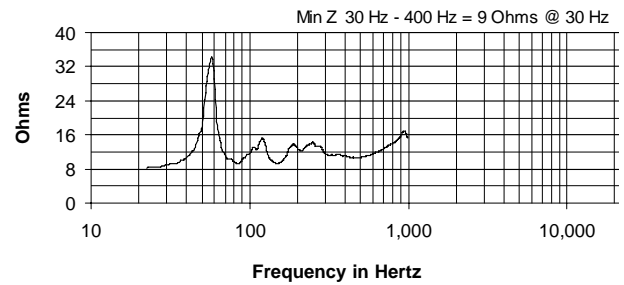
The CBS315's trapezoidal enclosure is made from high quality 13-ply Baltic Birch. Robust internal bracing helps eliminate cabinet resonances and flexing at high output levels that would otherwise induce distortion and compromise efficiency. The one-piece integral fiberglass horn baffle provides an extremely strong non-resonant structural mounting as well as optimum horn loading for each the driver. The enclosure incorporates a removable side panel for easy access to the drivers for testing or repair.

The CBS315 is designed as an optimum low frequency complement to the CBA Series full-range systems in terms of its output level, pattern control, frequency range and physical dimensions. Proper implementation of the loudspeaker requires an electronic crossover along with appropriate equalization. Community's DSC42 Digital System Controller is ideally suited to provide these functions when the CBS315 is used stand-alone. It can also provide the full 4-way configuration required when the CBS315 is used with CBA full-range systems.

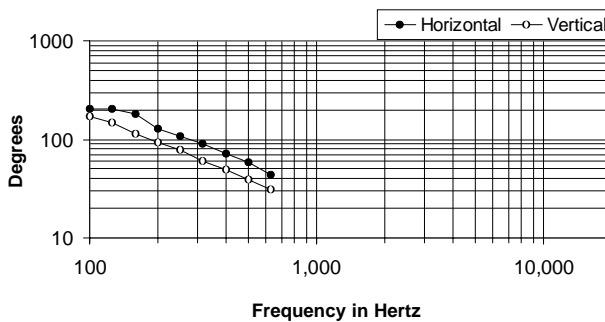
### FREQUENCY RESPONSE



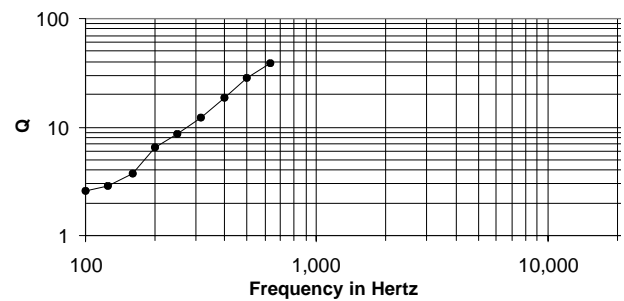
### IMPEDANCE



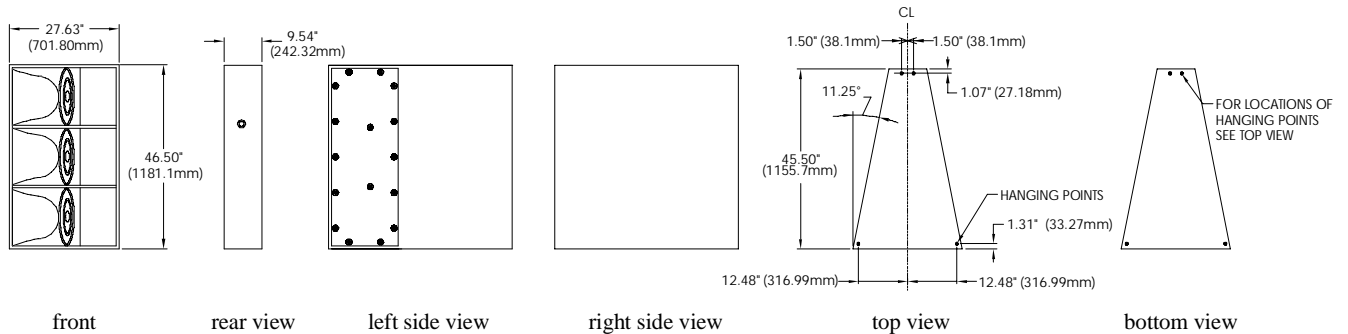
### BEAMWIDTH



### AXIAL Q



### DIMENSIONS



### ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The loudspeaker system shall be a horn loaded, ventless design with three cast frame 15 in. Ferrofluid-cooled woofers. There shall be a Neutrik NL4MP input connector and one dual banana test point. . [There shall be one Neutrik NL4MP input connector.] The loudspeaker enclosure shall be well-braced 18 mm13-ply Baltic birch with a 16 gauge perforated steel grille and finished with black paint. The enclosure shall have eight 3/8-16 integral threaded mounting points connected to internal steel bracing. [The loudspeaker enclosure shall be well-braced outdoor grade 18 mm13-ply Baltic birch with a 16 gauge 3-layer Weather-Stop grille and finished with a weather resistant laminated fiberglass cladding. The enclosure shall have integral threaded mounting points connected to internal steel bracing.] The system shall have an amplitude response of 50 Hz to 150 Hz (+/- 3 dB) with appropriate electronic crossover and signal processing. It shall have an input capability of 98V RMS, 107 dB sensitivity at one meter and 3.5V / 12 ohms nominal impedance. The nominal dispersion shall be 90° H x 60° V at 315 Hz. The loudspeaker shall be 46.5 in. (1181 mm) H x 27.6 in. (702 mm) W (front) x 9.5 in. (242 mm) W (rear) x 45.5 in. (1156 mm) D and weigh 258 lbs. (117 kg).