



**DESCRIPTION**

The Altec 816A Low-Frequency Horn is a combination front-loaded horn—bass reflex enclosure of compact dimensions. The compact size (21 $\frac{3}{4}$ "H x 30"W x 26"D) makes the 816A ideal for multiple use in arrays that maximize mutual coupling and density of cluster elements.

The front-loading horn element loads the bass driver down to 200 Hz, while the bass reflex porting extends the useful response to 50 Hz

and below when multiple units are employed. The cabinet is heavily constructed of  $\frac{3}{4}$ " material, extensively braced, and lined with absorbent material.

When a low-frequency loudspeaker is mounted in the cabinet, the 816A may be used in two-way sound systems that include separate high-frequency horn/drivers and dividing network mounted externally.

## SPECIFICATIONS

**Type:** Combination front-loaded horn and bass reflex enclosure

### Power Rating with Band-Limited Pink

**Noise (40-1000 Hz)—**

**w/416-8A Speaker:** 75 watts

**w/421A Speaker:** 100 watts

**w/515B Speaker:** 75 watts

**Frequency Response:** 50-1000 Hz

**Pressure Sensitivity:** Measured in the far (free) field with 1 watt input of band-limited pink noise from 100-1000 Hz and calculated to 4' equivalent (Ref.: 0.0002 dyne/cm<sup>2</sup>):

Speaker	1W, 4' Rating in dB SPL
416-8A	99.0
421A	101.0
515B	101.5

### Equivalent EIA Rating at 30' with 1 mW Input—

**w/416-8A:** 52.0 dB SPL

**w/421A:** 54.0 dB SPL

**w/515B:** 54.5 dB SPL

### Minimum Impedance—

**w/416-8A:** 8 ohms

**w/421A:** 8 ohms

**w/515B:** 16 ohms

**Distribution Pattern:** 40°V x 90°H

### Dimensions—

**Height:** 21¾" (55.3 cm)

**Width:** 30" (76.2 cm)

**Depth:** 26" (66.0 cm)

**Finish:**

Theatre gray enamel

**Weight—**

**Net:** 95 pounds (42.1 kg)

without speaker

**Shipping:** 110 pounds (49.9 kg)

without speaker

### Accessories

**(must be ordered separately):**

Altec 416-8A, 421A, 515B LF Speakers

## ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The low-frequency loudspeaker enclosure shall be a combination front-loaded horn and bass reflex type providing for one 15" low-frequency loudspeaker. The enclosure shall meet the following performance criteria. Power rating with band-limited pink noise 40-1000 Hz, \_\_\_\_\_ watts with Altec Model \_\_\_\_\_ LF speaker. Frequency response, 50-1000 Hz. Pressure sensitivity, \_\_\_\_\_ dB SPL with Altec Model \_\_\_\_\_ LF speaker when measured on axis 4' from front edge of enclosure with 1 watt input of band-limited pink noise from 100-1000 Hz (Ref.: 0.0002 dyne/cm<sup>2</sup>). Minimum impedance, \_\_\_\_\_ ohms with Altec Model \_\_\_\_\_ LF speaker. Distribution pattern, 40°V x 90°H. The enclosure shall be constructed of heavy ¾" material and shall be heavily braced and lined with acoustic damping material. It shall be 21¾"H x 30"W x 26"D, shall weigh 95 pounds, and shall be finished in gray enamel.

The low-frequency loudspeaker enclosure shall be the Altec Model 816A Low-Frequency Horn.

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