

**DESCRIPTION**

The engineering of the Altec 816V low-frequency horn represents the maximum performance parameters of the components that it will house. The size and shape of this combination front-loaded horn/bass reflex enclosure have been carefully designed with regard to overall system performance, making the 816V ideal for use in arrays.

The front-loading horn design loads the bass driver down to 200 Hz, while the bass reflex porting extends the useful response down to 50 Hz and below when multiple units are used. With a low-frequency loudspeaker mounted in

the cabinet, the 816V may be used in two-way sound systems that include a separate high-frequency horn/driver mounted externally on each cabinet.

Compact and extremely durable, the 816V is constructed of $\frac{3}{4}$ " particle board material for optimal acoustics, is extensively braced and is lined with absorbent damping material. Hand-somely completing the exterior is a classy, mar-resistant textured black finish, chosen especially to resist handling wear while appearing professional and contemporary on any stage.

SPECIFICATIONS

Type: Combination front-loaded horn and bass reflex enclosure

Power Rating with Band-Limited Pink Noise (40-1000 Hz) —

- w/416-8C Speaker:** 75 watts
- w/918A Speaker:** 100 watts
- w/515E 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 100-1000Hz and calculated to 4' equivalent (Ref.: 0.0002 dyne/cm²):

Speaker	1W, 4' Rating in dB SPL
416-8C	99.0
918A	101.0
515E	101.5

Equivalent EIA Rating at 30' with 1 mW Input —

- w/416-8C:** 52.0 dB SPL
- w/918A:** 54.0 dB SPL
- w/515E:** 54.5 dB SPL

Minimum Impedance—
w/416-8C: 8 ohms
w/918A: 8 ohms
w/515E: 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: Mar-resistant textured black

Weight—
Net: 95 pounds (42.1 kg) without speaker

Shipping: 110 pounds (49.9 kg) without speaker

Accessories (must be ordered separately): Altec 416-8C, 918A, 515E 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/cm²). Minimum impedance,

_____ ohms with Altec Model _____ LF speaker. 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.

The exterior shall be finished in mar-resistant textured black, and shall include metal corner guards and protective glides.

The low-frequency loudspeaker enclosure shall be the ALTEC Model 816V.



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