



GREAT PLAINS AUDIO

MODEL 515-8/16C

Classic Series

LOW-FREQUENCY LOUDSPEAKER



Great Plains Audio is pleased to reintroduce one of the finest low-frequency loudspeakers ever built, the *Model 515-C Series Low-Frequency Loudspeaker*. The *Model 515-C* is part of GPA's new *Classic Series* of loudspeakers, all of which are hand-made, incorporating precision manufacturing practices, a distinctive paint scheme, and featuring the superb sonic performance that can only be achieved through the use of massive AlnicoV magnetic assemblies.

In addition to the powerful AlnicoV motor structure, the *GPA Model 515-C Series Low-Frequency Loudspeaker* utilizes a relatively light cone assembly. The result is a low-frequency loudspeaker that exhibits the highest possible conversion that is ideal for use in bass-horns, direct radiator enclosures, or in multiple arrays of low-frequency units.

☐ *Digital Ready? OF COURSE!*

The amount of low frequency program material found in today's digital recordings is much greater than

in other recorded media. When a loudspeaker system accurately reproduces such sounds, the result is impressive. When it does not, the results can often be unbearable to listen to. Most manufacturers, attempting to make their speakers "digital ready", realize that substantial changes must be made in their speaker designs if they are going to be able to keep up with the audio found in the digital world of today. **Great Plains Audio's 515-C Series Low-Frequency Loudspeakers** are able to respond to the demands of digital music and sound effects accurately and do so with extraordinary linearity. Utilizing a lightweight cone, high-compliance suspension, a voice-coil of edge-wound copper ribbon, and a design that provides axial retention of the low-frequency voice coil in the magnetic gap at all times, the **515-C Series** is an outstanding performer in all venues.

When used in a properly designed bass horn or direct radiator enclosure, they exhibit tight bass, excellent transient response, and extremely accurate low-frequency sound reproduction.

Great Plains Audio's dedication to manufacturing loudspeakers of the highest quality that perform with equal excellence is exemplified in our new *Classic Series* of loudspeakers. This series reintroduces to the audio world speakers of timeless design, and features the sonic qualities of AlnicoV magnetic assemblies. This combination has resulted in an ever-growing series of loudspeakers that can be used as direct replacements for, or companions to, vintage loudspeakers of the same design. ■



GREAT PLAINS AUDIO

"The Legacy Lives On"™

MODEL 515-8/16C *Classic Series* LOW-FREQUENCY LOUDSPEAKER

PERFORMANCE SPECIFICATIONS -

Frequency Response*: 20-1kHz

Power Handling:** 150 watts

Pressure Sensitivity*:**

Enclosure:	210	107 dB
	210A	106 dB
	211	106 dB
	410	108 dB
	612C	99 dB
	815A	105 dB
	816A	101.5 dB
	828C	102 dB

Note: Enclosure models 210, 210A, 211, and 815A use two 515-C series speakers, while the model 410 uses four.

Minimum Impedance: 515-8C 515-16C

8 ohms 16 ohms

Input Connections: Large push-on type terminals.

Thiele-Small Parameters: 515-8C

<i>X_{max}</i> (inch)	0.20
<i>R_e</i> (ohms)	6.46
<i>V_d</i> (cu. in.)	23.00
<i>F_s</i> (Hz)	27.80
<i>V_{as}</i> (cu. ft.)	14.92
<i>Ref. Eff</i> (%)	2.78
<i>Q_{ts}</i>	0.30
<i>Q_{ms}</i>	8.25
<i>Q_{es}</i>	0.31

Magnet Type: AlnicoV

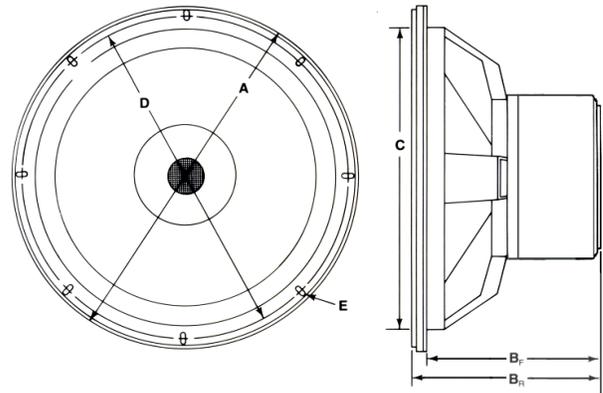
Magnet Weight: 4.4 pounds

Flux Density: 14,750 Gauss

Net Weight: 26 pounds

Finish: Hammertone Black

Loudspeaker Mounting Dimensions:



- A = Loudspeaker Diameter: 16"
- B_F = Depth When Front Mounted: 9 3/4"
- B_R = Depth When Rear Mounted: 10 9/16"
- C = Baffle Opening Diameter: 14 1/8"
- D = Bolt Circle Diameter: 15"
- E = Bolt Hole Slots: 1/4" x 3/4" (8 slots spaced 45° apart)

NOTES:

- * Low frequency limit is the 3 dB down point using the particular enclosure and the Thiele/Small parameters of the loudspeaker.
- ** AES power rating (measured Power = E²/R, using Pink Noise with a crest factor of 6 dB and a band limit of 60-600 Hz).
- *** Measured in the free-field at 4' on-axis with one watt (Power = E²/R), of band-limited pink noise from 100 to 1000 Hz.



GREAT PLAINS AUDIO
7127 NORTHWEST THIRD ST.
OKLAHOMA CITY, OKLAHOMA 73127
TELE: (405) 789-0221
WWW.GREATPLAINSAUDIO.COM

"The Legacy Lives On"™

© Great Plains Audio, LLC.

Specifications subject to change without notice. Overall performance will be maintained or improved.
Great Plains Audio, The Engine, Pascalite, and "The Legacy Lives On" are trademarks of Great Plains Audio.

GPA-515C, Rev 5, 02/11/08