



## AMERICAN STANDARD SERIES

# BETA-12CX

Recommended for professional audio as a mid-bass in either vented, or sealed satellite or floor monitor enclosures. Also works nicely in vented two-way enclosures used for small coverage areas.



The data for this coaxial woofer was calculated with the ASD:1001 driver screwed into the woofer, but not active.

### SPECIFICATION

|                         |                 |
|-------------------------|-----------------|
| Nominal Basket Diameter | 12.0", 305 mm   |
| Nominal Impedance*      | 8 Ω             |
| Power Rating**          |                 |
| Watts                   | 250 W           |
| Music Program           | 500 W           |
| Resonance               | 47 Hz           |
| Usable Frequency Range  | 57 Hz – 4.6 kHz |
| Sensitivity***          | 97.3 dB         |
| Magnet Weight           | 38 oz.          |
| Gap Height              | .312", 7.9 mm   |
| Voice Coil Diameter     | 2.0", 51 mm     |

### THIELE & SMALL PARAMETERS\*

|      |                            |
|------|----------------------------|
| Fs   | 47 Hz                      |
| Re   | 5.42 Ω                     |
| Le   | 0.64 mH                    |
| Qms  | 5.64                       |
| Qes  | 0.52                       |
| Qts  | 0.48                       |
| Vas  | 4.27 cu.ft., 120.94 liters |
| Vd   | 188.6 cc                   |
| Cms  | 0.30 mm/N                  |
| BL   | 10.79 T-M                  |
| Mms  | 38 grams                   |
| EBP  | 90                         |
| Xmax | 3.50 mm                    |
| Sd   | 538.9 cm <sup>2</sup>      |
| Xlim | 10.4 mm                    |

### MOUNTING INFORMATION

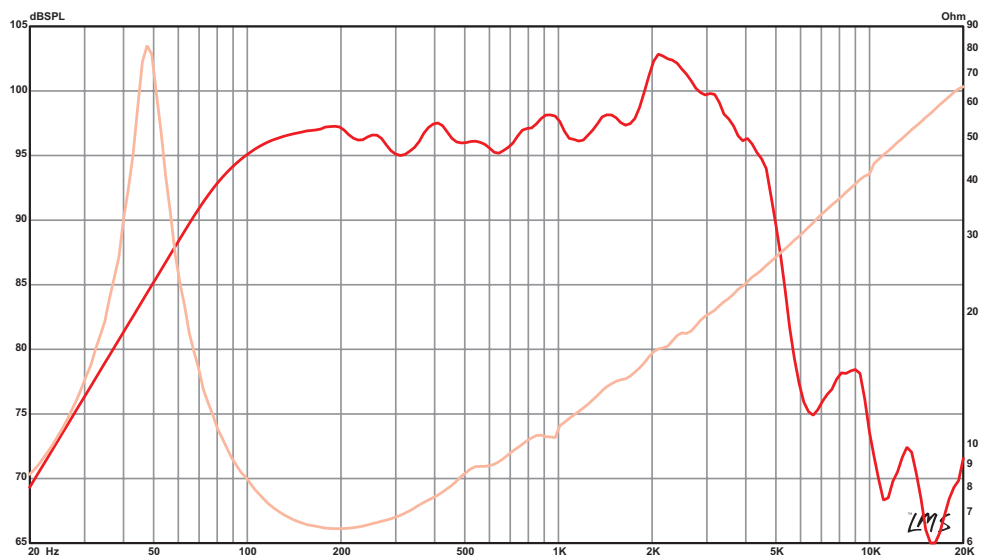
|                              |  |
|------------------------------|--|
| Recommended Enclosure Volume |  |
| Sealed                       | 26.90–70.79 liters,<br>0.95–2.50 cu.ft.  |
| Vented                       | 32.85–158.58 liters,<br>1.16–5.60 cu.ft. |
| Driver Volume Displaced      | 0.071 cu.ft., 2.00 liters                |
| Overall Diameter             | 12.03", 305.6 mm                         |
| Baffle Hole Diameter         | 11.07", 281.2 mm                         |
| Front Sealing Gasket         | Yes                                      |
| Rear Sealing Gasket          | Yes                                      |
| Mounting Holes Diameter      | 0.25", 6.4 mm                            |
| Mounting Holes B.C.D.        | 11.59", 294.4 mm                         |
| Depth                        | 4.47", 113.5 mm                          |
| Net Weight                   | 7.80 lbs , 3.54 kg                       |
| Shipping Weight              | 10.00 lbs , 4.54 kg                      |

### MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Ferrite magnet
- Tapered Coax
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Screened cloth dust cap



### FREQUENCY RESPONSE & IMPEDANCE CURVE\*



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## MISSION STATEMENT

*Eminence is dedicated to providing the best Quality, Value and Service to meet our customers' needs.*

## FOOTNOTES

- \* Please consult [www.eminence.com](http://www.eminence.com) for specifications of models with alternative impedances.
- \*\* Multiple units exceed published ratings evaluated under EIA 426A specification while tested in a free-air, non-temperature-controlled environment.
- \*\*\* The average output across the usable frequency range when applying 1W/1m into the nominal impedance. i.e: 2.83V/8Ω, 4V/16Ω. Eminence response curves are measured under the following conditions: All speakers are tested at 1W/1m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2 ft. x 2 ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction | Carver PM-120 amplifier | 2700 cu. ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).
- \*\*\*\* BETA 8CX, 10CX, and 12CX are coaxial speakers with tweeter sold separately. Published usable frequency response contingent upon use of ASD:1001 HF Driver.
- \*\*\*\*\* Multiple units exceeded published ratings evaluated under EIA-426A or AES specification while mounted on Eminence's H290, H290S, or H2EA horn in a non-temperature-controlled environment.
- \*\*\*\*\*The average on axis output across the entire usable frequency range when applying 1W/1m into the nominal impedance, i.e. 2.83V/8Ω, 4V/16Ω. Eminence response curves are measured under the following conditions: All speakers are tested at 1W/1m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2ft x 2ft baffle is built into the wall with horn front mounted | Carver PM-120 amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).

Prices, specifications and product cosmetics are subject to change without notice.

**EMINENCE SPEAKER LLC**

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