



## PROFESSIONAL SERIES

# LAB12C

Recommended for vented, sealed, and horn loaded, professional audio enclosures as a subwoofer. Also great as an automotive sub.



### SPECIFICATION

|                         |                 |
|-------------------------|-----------------|
| Nominal Basket Diameter | 12.0", 305 mm   |
| Nominal Impedance*      | 4 Ω             |
| Power Rating**          |                 |
| Watts                   | 500 W           |
| Music Program           | 1000 W          |
| Resonance               | 23 Hz           |
| Usable Frequency Range  | 25 Hz – 0.1 kHz |
| Sensitivity***          | 88.9 dB         |
| Magnet Weight           | 160 oz.         |
| Gap Height              | .375", 9.5 mm   |
| Voice Coil Diameter     | 2.5", 64 mm     |

### THIELE & SMALL PARAMETERS\*

|      |                            |
|------|----------------------------|
| Fs   | 23 Hz                      |
| Re   | 3.11 Ω                     |
| Le   | 1.09 mH                    |
| Qms  | 11.70                      |
| Qes  | 0.34                       |
| Qts  | 0.33                       |
| Vas  | 4.53 cu.ft., 128.31 liters |
| Vd   | 659.0 cc                   |
| Cms  | 0.36 mm/N                  |
| BL   | 13.36 T-M                  |
| Mms  | 136 grams                  |
| EBP  | 67                         |
| Xmax | 13.00 mm                   |
| Sd   | 506.7 cm <sup>2</sup>      |
| Xlim | 22.0 mm                    |

### MOUNTING INFORMATION

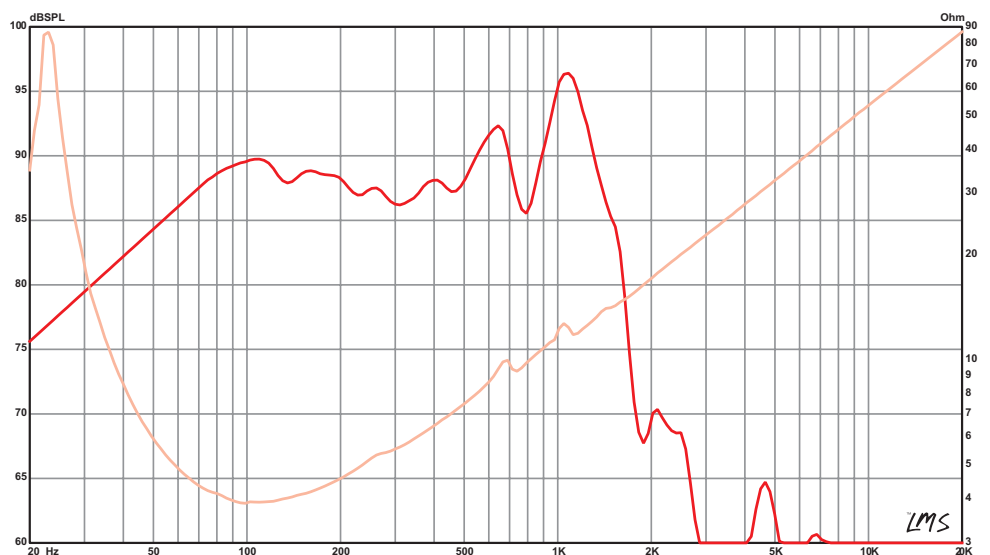
|                              |                                       |
|------------------------------|---------------------------------------|
| Recommended Enclosure Volume |                                       |
| Sealed                       | 28.32–118.93 liters, 1.00–4.20 cu.ft. |
| Vented                       | 39.64–141.59 liters, 1.40–5.00 cu.ft. |
| Driver Volume Displaced      | 0.109 cu.ft., 3.09 liters             |
| Overall Diameter             | 12.32", 312.9 mm                      |
| Baffle Hole Diameter         | 10.98", 278.9 mm                      |
| Front Sealing Gasket         | Yes                                   |
| Rear Sealing Gasket          | N/A                                   |
| Mounting Holes Diameter      | 0.26", 6.6 mm                         |
| Mounting Holes B.C.D.        | 11.77", 299.0 mm                      |
| Depth                        | 6.44", 163.6 mm                       |
| Net Weight                   | 22.00 lbs, 9.98 kg                    |
| Shipping Weight              | 23.80 lbs, 10.80 kg                   |

### MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Double stacked 80 oz. ferrite magnets
- Vented and extended core
- 12-spoke die-cast aluminum basket
- Kevlar-reinforced paper cone
- Foam cone edge
- Dual inverted dust caps



### FREQUENCY RESPONSE & IMPEDANCE CURVE\*



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*From design and manufacturing to the stage or studio. Once you've experienced the performance of Eminence, you'll never accept anything else.*

## 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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