# **Specification**

12" 304 8mm Nominal Basket Diameter Nominal Impedance\* 16 ohms Power Rating\*\* 400W Watts Music Program 800W Resonance 55Hz Usable Frequency Range\*\*\* 54Hz-5kHz Sensitivity 98.3 Magnet Weight 56 oz Gap Height 0.375", 9.53mm Voice Coil Diameter 2.5". 63.5mm





## **Thiele & Small Parameters**

Resonant Frequency (fs) 55Hz DC Resistance (Re) 6.3 Coil Inductance (Le) 0.74mH Mechanical Q (Qms) 5.27 Electromagnetic Q (Qes) 0.46 Total Q (Qts) 0.43 81.3 ltr/2.9 cu. ft. Compliance Equivalent Volume (Vas) Peak Diaphragm Displacement Volume (Vd) 125cc Mechanical Compliance of Suspension (Cms) 0.21mm/N BL Product (BL) 13.5 T-M Diaphragm Mass inc. Airload (Mms) 39 grams Efficiency Bandwidth Product (EBP) 120 Maximum Linear Excursion (Xmax) 2.4mm Surface Area of Cone (Sd) 519.5cm<sup>2</sup> Maximum Mechanical Limit (Xlim) 9.9mm

# **Mounting Information**

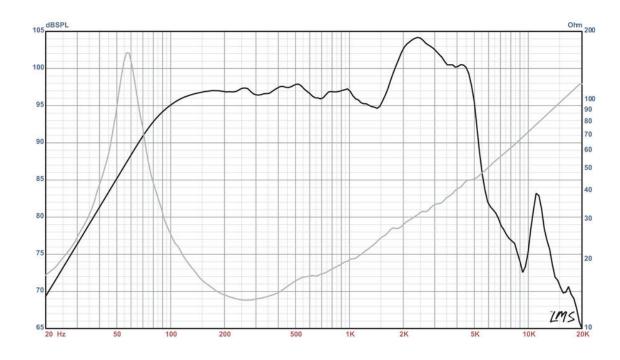
Recommended Enclosure Volume N/A Sealed Vented 25.5-85 ltr/0.9-3 cu. ft. Overall Diameter 12.03", 305.5mm Baffle Hole Diameter 10.95", 278.1mm Front Sealing Gasket Fitted as Standard Rear Sealing Gasket Fitted as Standard Mounting Holes Diameter 0.25", 6.4mm Mounting Holes B.C.D. 11.59". 294.3mm Depth 5.35". 136mm Net Weight 11.4 lbs, 5.2 kg Shipping Weight 13.5 lbs, 6.1 kg

## **Materials of Construction**

Coil Construction Aluminum Coil Polvimide Ferrite Magnet Composition Core Details Vented Pressed Steel **Basket Materials** Cone Composition Paper Cone Edge Composition Cloth **Dust Cap Composition** Solid Composition Felt

# **DELTA-12B** American Standard Series

Recommended for professional audio as a mid-bass or woofer (with high-pass filter) in vented enclosures.



- \* Please inquire about alternative impedances.
- \*\* Multiple units exceed published rating evaluated under EIA 426A noise source and test standard while in a free-air, nontemperature-controlled environment.
- \*\*\* The average output across the usable frequency range when applying 1W/1m into the nominal impedance. Ie: 2.83 V/8 ohms, 4 V/16 ohms.

  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 | Hafler P1500 Trans-Nova amplifier | 2700 cu.ft. chamber with fiberollass on all six surfaces (three with custom-made wedges)

# **Delta12B Large Vented Cabinet**

By McJerry, Eminence Speaker LLC Displacement Limited to 60 Watts; F3 of 65 Hz. Use a high pass filter set to 50 Hz. Ok for Low Pwr FR PA.

## **Box Properties**

--Description--

Name:

Type: Vented Box Shape: Prism, square --Box Parameters--Vb = 2.2 cu.ft V(total) = 2.361 cu.ft

V(total) = 2.361 cu.f Fb = 57.32 Hz

QL = 7

F3 = 64.53 HzFill = minimal

--Vents--

No. of Vents = 2 Vent shape = round Vent ends = one flush

Dv = 4 in Lv = 4.99 in

#### **Driver Properties**

--Description--

Name: Delta-12 (16 ohm)
Type: Standard one-way driver
Company: Eminence Speaker LLC
Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.
Dust Cap: Solid paper dust cap.
Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) copper.

Magnet: 56 oz ferrite magnet.

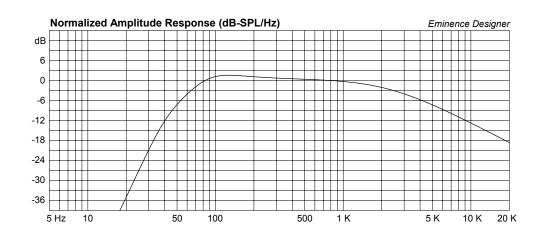
--Configuration--

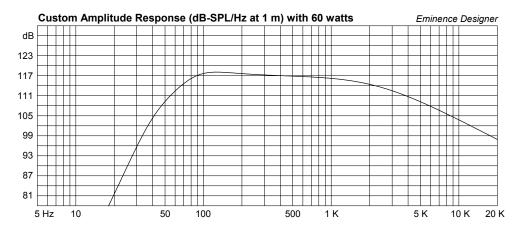
#### No. of Drivers = 1

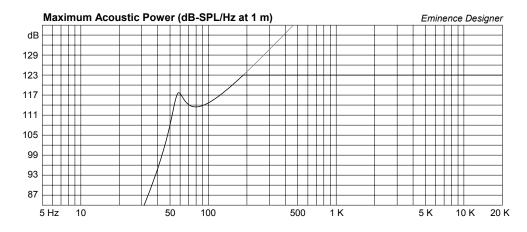
--Driver Parameters--

Fs = 58 Hz Qms = 7.04 Vas = 87 liters Xmax = 2.7 mm Sd = 519.5 sq.cm

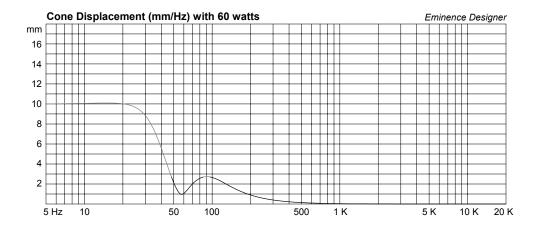
Qes = 0.52 Re = 11.4 ohms Le = 0.77 mH Z = 16 ohms Pe = 400 watts

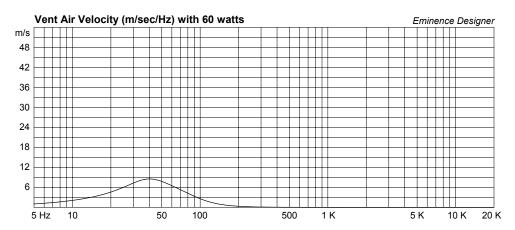


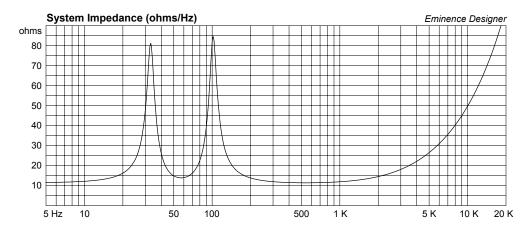




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## **Delta12B Med Vented Cabinet**

By McJerry, Eminence Speaker LLC Displacement Limited to 100 Watts; F3 of 75 Hz. Use a steep High Pass filter set to 50 Hz. Ok for Low Pwr FR, PA use if high passed at 50 Hz.

## **Box Properties**

--Description--

Name:

Type: Vented Box Shape: Prism, square --Box Parameters--Vb = 1.5 cu.ft V(total) = 1.684 cu.ft Fb = 65 Hz QL =

F3 = 75.18 Hz Fill = minimal

--Vents--

No. of Vents = 2Vent shape = round Vent ends = one flush

Dv = 4 in 6.359 in Lv =

#### **Driver Properties**

--Description--Name: Delta-12 (16 ohm) Type: Standard one-way driver Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone. Suspension: Cloth surround. Dust Cap: Solid paper dust cap. Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) copper.

519.5 sq.cm

Magnet: 56 oz ferrite magnet.

--Configuration--

#### No. of Drivers = 1 --Driver Parameters--

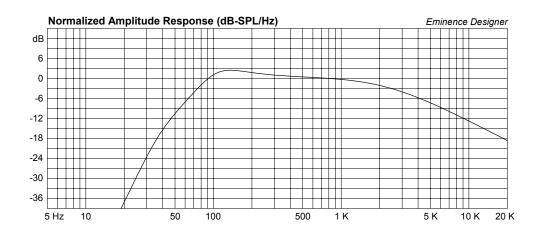
Fs= 58 Hz

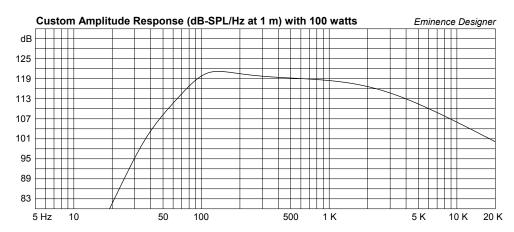
Qms = 7.04 Vas = 87 liters Xmax = 2.7 mm

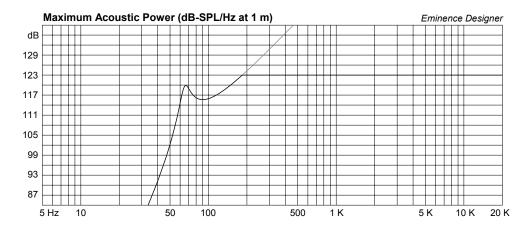
Sd =

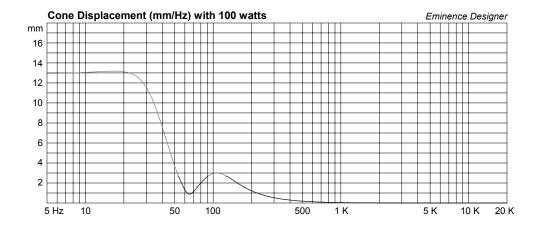
Qes = 0.52 11.4 ohms Re = Le = 0.77 mH

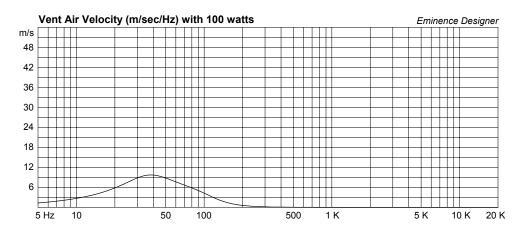
Z = 16 ohms Pe = 400 watts

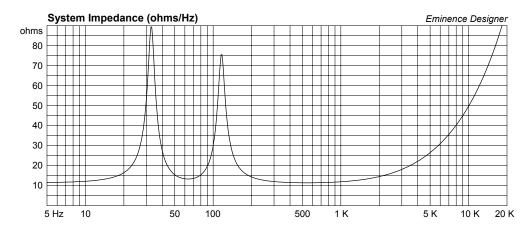












# **Delta12B Small Sealed Midrange Cabinet**

By McJerry, Eminence Speaker LLC Limited to 300 Watts. Not for FR use. Use only above 200 Hz; use a steep high pass filter set to 200 Hz.

## **Box Properties**

--Description--

Name:

Type: Closed Box
Shape: Prism, square
--Box Parameters-Vb = 0.486 cu.ft
V(total) = 0.566 cu.ft
Qtc = 0.924
QL = 20
F3 = 120.2 Hz
Fill = heavy

#### **Driver Properties**

--Description--

Name: Delta-12 (16 ohm) Type: Standard one-way driver Company: Eminence Speaker LLC Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround. Dust Cap: Solid paper dust cap. Frame: Pressed steel basket.

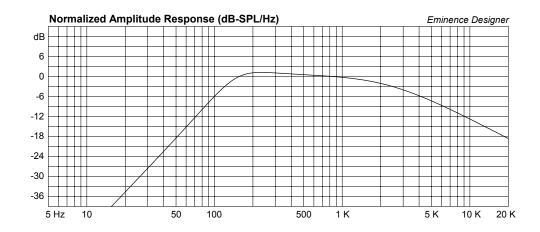
Voice Coil: 2.5 inch (63.5 mm) copper.

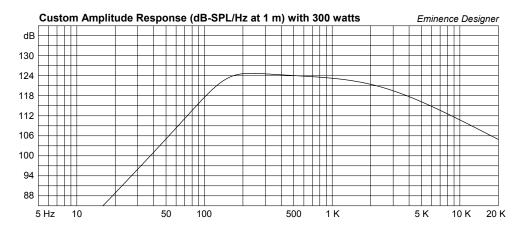
Magnet: 56 oz ferrite magnet.

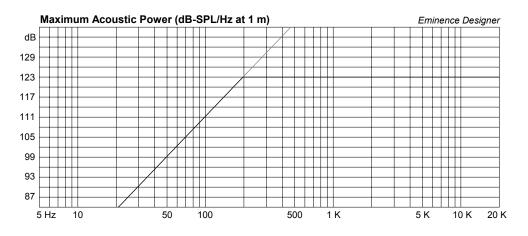
--Configuration-No. of Drivers = 1
--Driver Parameters--

Fs = 58 Hz Qms = 7.04 Vas = 87 liters Xmax = 2.7 mm Sd = 519.5 sq.cm Qes = 0.52

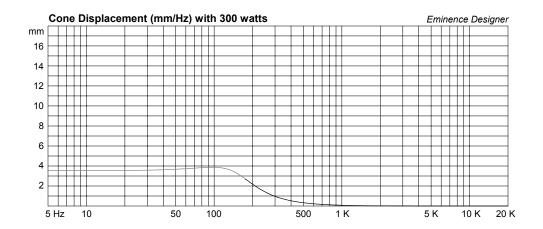
Re = 11.4 ohms Le = 0.77 mH Z = 16 ohms Pe = 400 watts

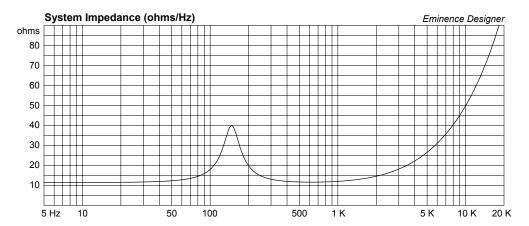






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# **Delta12B Small Sealed Midrange Cabinet**

By McJerry, Eminence Speaker LLC Limited to 300 Watts. Not for FR use. Use only above 200 Hz; use a steep high pass filter set to 200 Hz.

## **Box Properties**

--Description--

Name:

Type: Closed Box
Shape: Prism, square
--Box Parameters-Vb = 0.486 cu.ft
V(total) = 0.566 cu.ft
Qtc = 0.924
QL = 20
F3 = 120.2 Hz
Fill = heavy

#### **Driver Properties**

--Description--

Name: Delta-12 (16 ohm) Type: Standard one-way driver Company: Eminence Speaker LLC Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround. Dust Cap: Solid paper dust cap. Frame: Pressed steel basket.

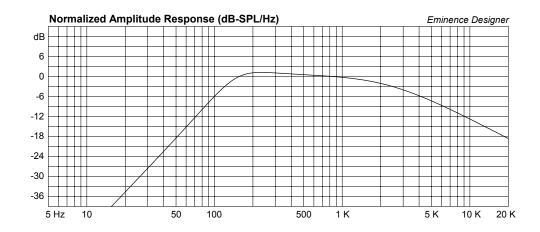
Voice Coil: 2.5 inch (63.5 mm) copper.

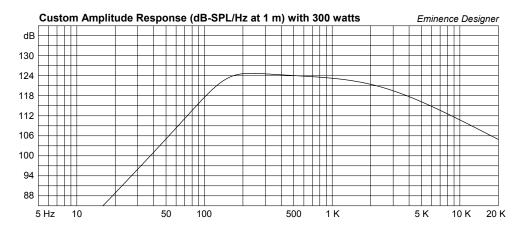
Magnet: 56 oz ferrite magnet.

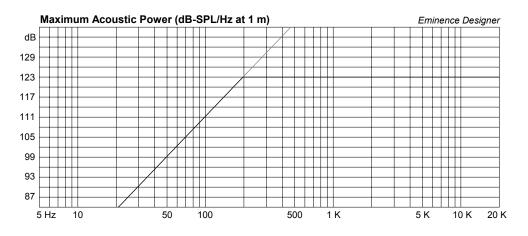
--Configuration-No. of Drivers = 1
--Driver Parameters--

Fs = 58 Hz Qms = 7.04 Vas = 87 liters Xmax = 2.7 mm Sd = 519.5 sq.cm Qes = 0.52

Re = 11.4 ohms Le = 0.77 mH Z = 16 ohms Pe = 400 watts







File: Delta12BSmallSealedCabinet.bb6

