

## Specification

Nominal Basket Diameter	15", 381mm
Nominal Impedance*	8 or 16 ohms
Power Rating**	
Watts	400W
Music Program	800W
Resonance	40Hz
Usable Frequency Range***	48Hz-4kHz
Sensitivity	100
Magnet Weight	56 oz
Gap Height	0.375", 9.53mm
Voice Coil Diameter	2.5", 63.5mm

## Thiele & Small Parameters

Resonant Frequency (fs)	40Hz
DC Resistance (Re)	6.3
Coil Inductance (Le)	0.64mH
Mechanical Q (Qms)	8.05
Electromagnetic Q (Qes)	0.57
Total Q (Qts)	0.53
Compliance Equivalent Volume (Vas)	270.7 ltr/9.56 cu.ft
Peak Diaphragm Displacement Volume (Vd)	233cc
Mechanical Compliance of Suspension (Cms)	0.26mm/N
BL Product (BL)	13.2 T-M
Diaphragm Mass inc. Airlod (Mms)	62 grams
Efficiency Bandwidth Product (EBP)	70
Maximum Linear Excursion (Xmax)	2.7mm
Surface Area of Cone (Sd)	864.6cm <sup>2</sup>
Maximum Mechanical Limit (Xlim)	11.1mm

## Mounting Information

Recommended Enclosure Volume	
Sealed	37-42.5 ltr/1.3-1.5 cu. ft.
Vented	82-161.4 ltr/2.9-5.7 cu. ft.
Overall Diameter	15.15", 384.8mm
Baffle Hole Diameter	13.77", 349.6mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.25", 6.4mm
Mounting Holes B.C.D.	14.56", 369.9mm
Depth	6.05", 154mm
Net Weight	12.3 lbs, 5.6 kg
Shipping Weight	14.4 lbs, 6.5 kg

## Materials of Construction

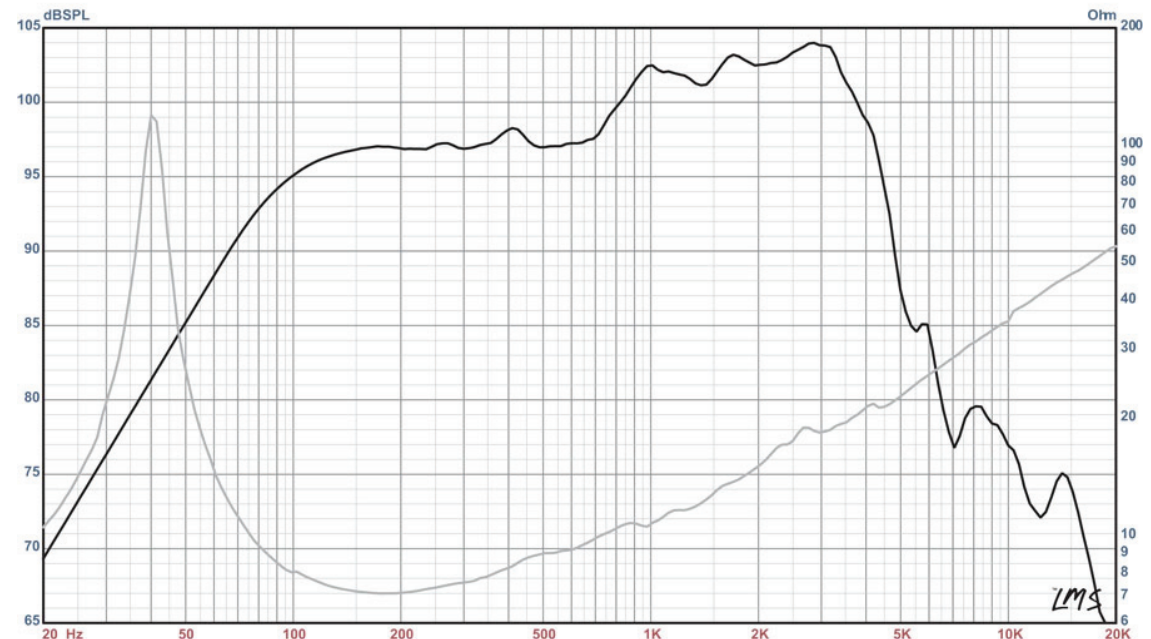
Coil Construction	Aluminum
Coil	Polyimide
Magnet Composition	Ferrite
Core Details	Vented
Basket Materials	Pressed Steel
Cone Composition	Paper
Cone Edge Composition	Cloth
Dust Cap Composition	Solid Composition Paper




  
**EMINENCE**<sup>®</sup>
  
 The Art and Science of Sound

## DELTA-15A American Standard Series

Recommended for professional audio as a mid-bass or vocal wedge in a sealed enclosure.  
 Also suitable as a mid-bass or woofer 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. I.e: 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 fiberglass on all six surfaces (three with custom-made wedges)

# Beta15A Large Vented Woofer Enclosure

By McJerry, Eminence Speaker LLC

Displacement Limited to 100 Watts; use above 40 Hz.

Will require EQ for flat playback.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 6 cu.ft

V(total) = 6.133 cu.ft

Fb = 47.79 Hz

QL = 7

F3 = 44.78 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4.25 in

Lv = 0.75 in

## Driver Properties

--Description--

Name: Beta-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised OCT 2005

Piston: Ribbed paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2 inch (50.8 mm) coated copper.

Magnet: 38 oz ferrite magnet.

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 35 Hz

Qms = 8.1

Vas = 334.6 liters

Xmax = 4 mm

Sd = 823.7 sq.cm

Qes = 0.63

Re = 6.32 ohms

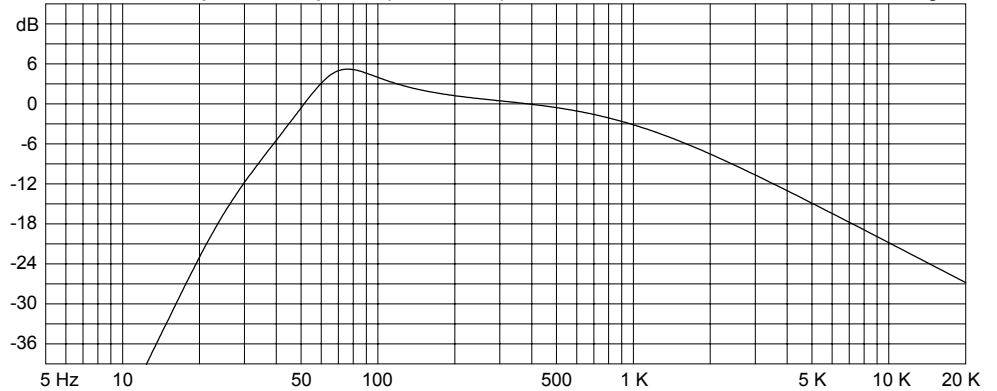
Le = 1.1 mH

Z = 8 ohms

Pe = 350 watts

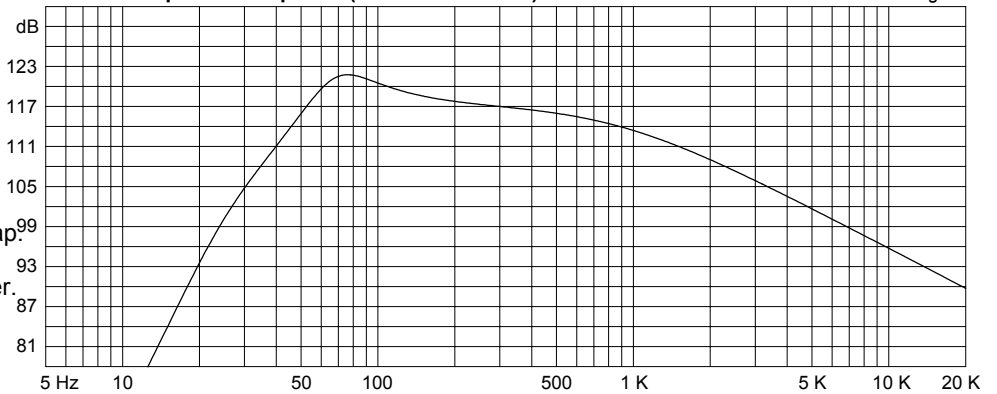
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



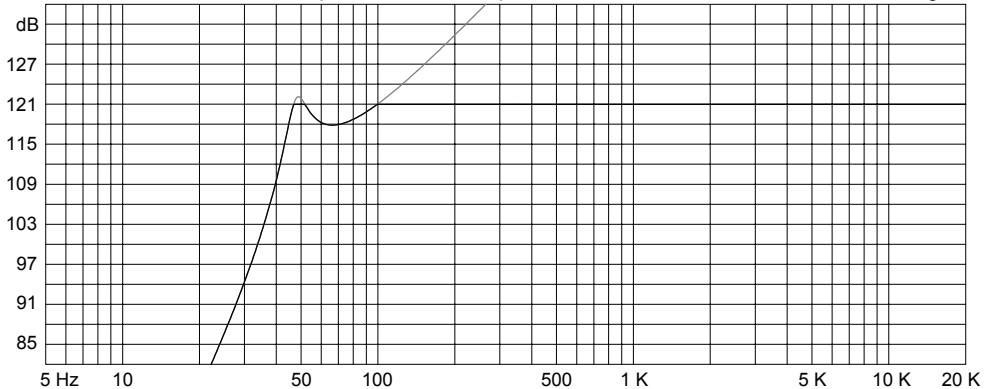
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 100 watts

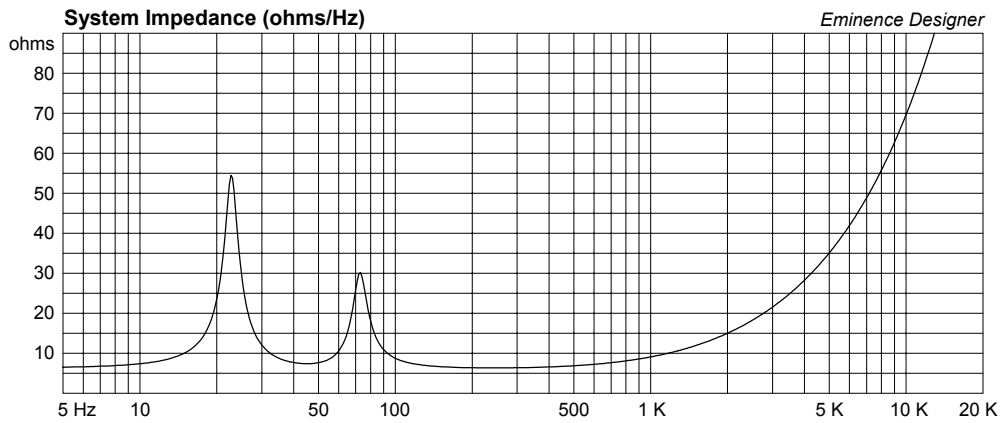
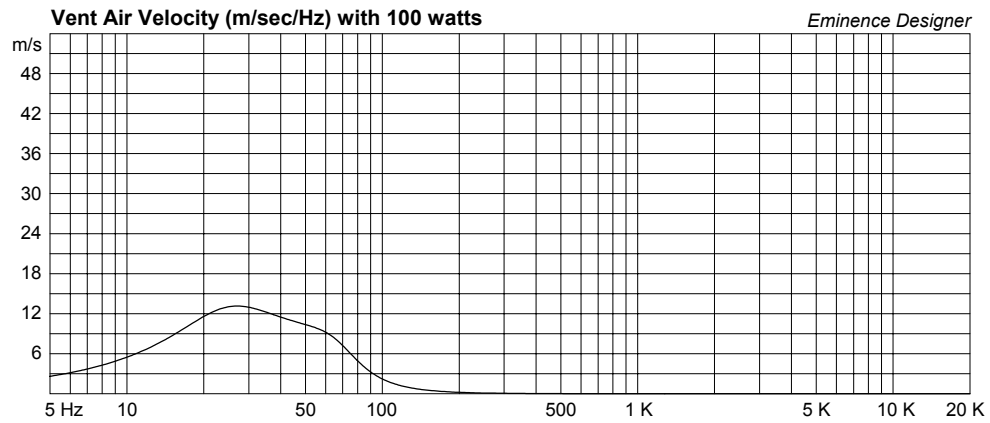
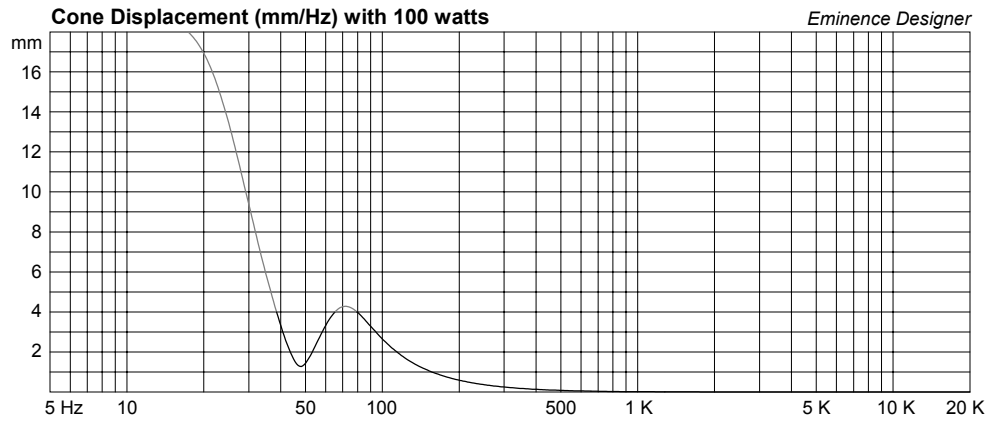
Eminence Designer



Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer





# Beta15A Sealed Semi-Full Range Enclosure

By McJerry, Eminence Speaker LLC

Displacement Limited to 175 Watts; use above 70 Hz.

Good Floor Monitor or as a general voice PA cabinet.

## Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 1.75 cu.ft

V(total) = 1.869 cu.ft

Qtc = 1.018

QL = 8.85

F3 = 70.73 Hz

Fill = heavy

## Driver Properties

--Description--

Name: Beta-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised OCT 2005

Piston: Ribbed paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2 inch (50.8 mm) coated copper.

Magnet: 38 oz ferrite magnet.

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 35 Hz

Qms = 8.1

Vas = 334.6 liters

Xmax = 4 mm

Sd = 823.7 sq.cm

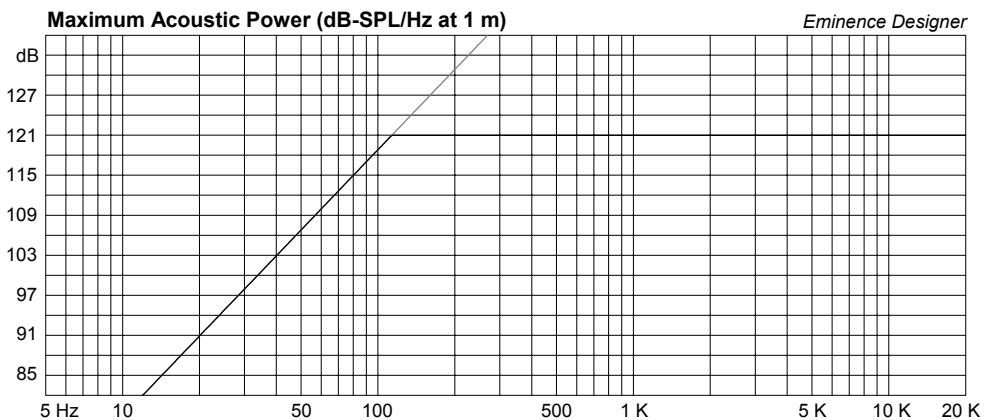
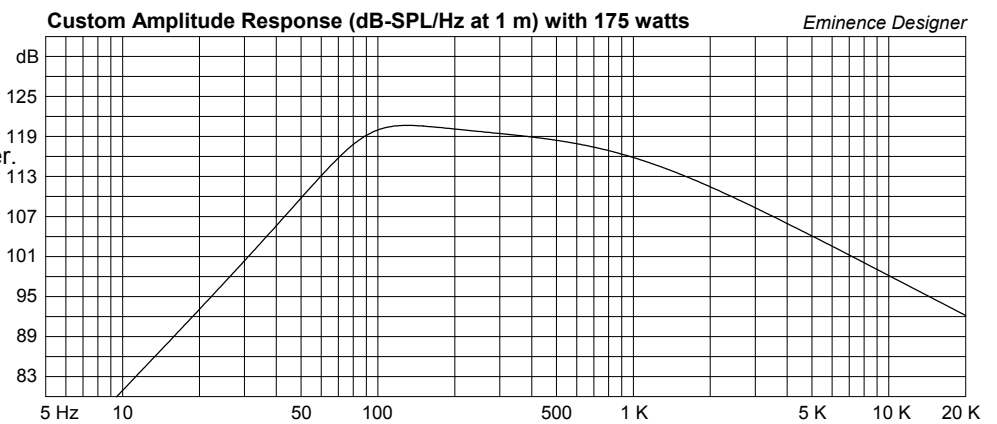
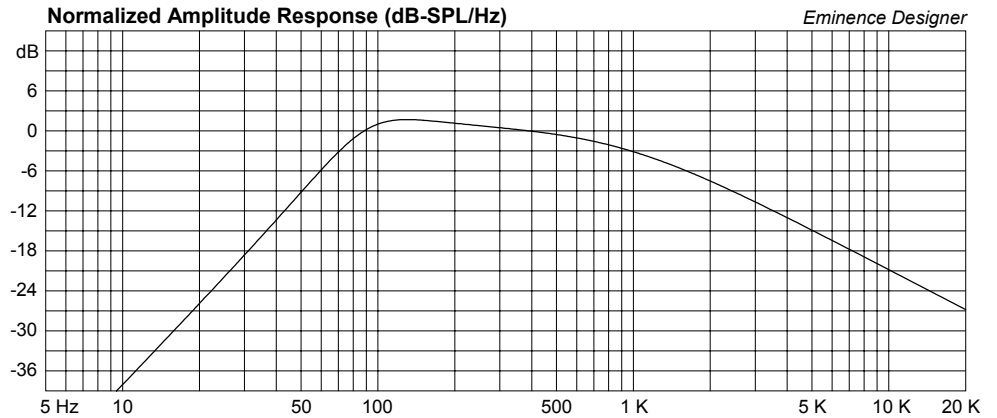
Qes = 0.63

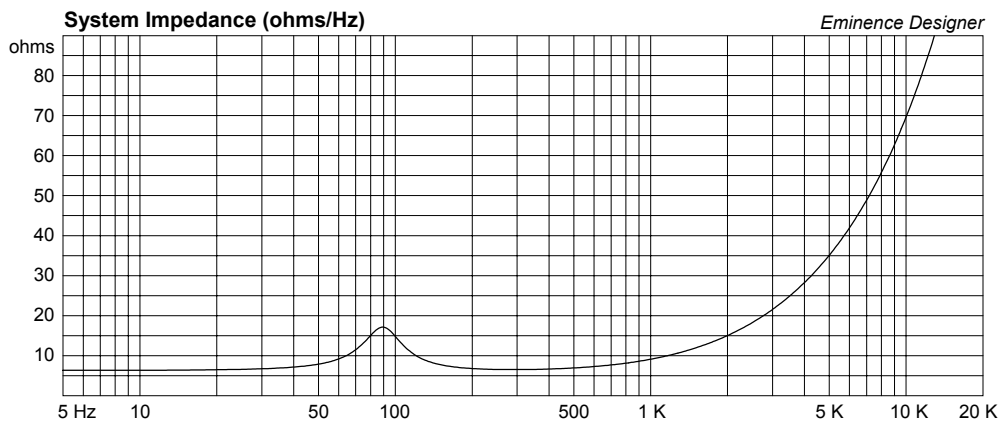
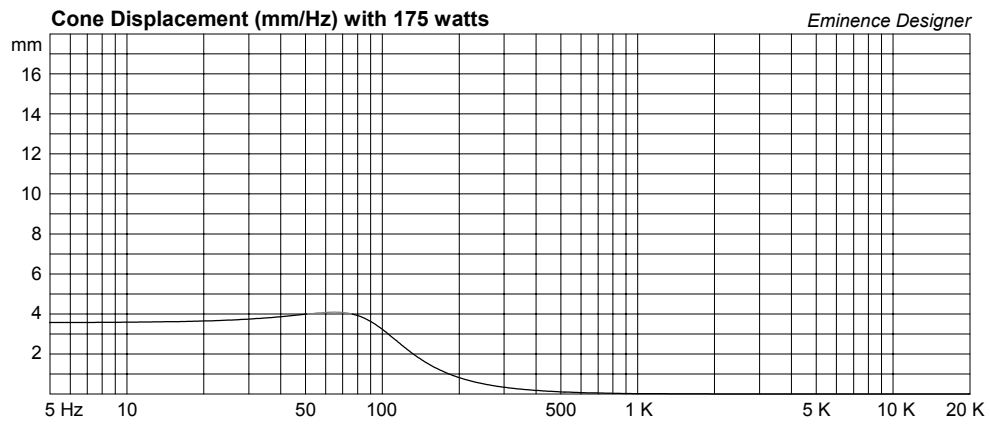
Re = 6.32 ohms

Le = 1.1 mH

Z = 8 ohms

Pe = 350 watts





# Beta15A Med Vented Woofer Enclosure

By McJerry, Eminence Speaker LLC

Displacement Limited to 200 Watts; use above 60 Hz.

Will require EQ for flat playback.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 3.58 cu.ft

V(total) = 3.715 cu.ft

Fb = 65 Hz

QL = 7

F3 = 58.83 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4.64 in

Lv = 0.75 in

## Driver Properties

--Description--

Name: Beta-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised OCT 2005

Piston: Ribbed paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2 inch (50.8 mm) coated copper.

Magnet: 38 oz ferrite magnet.

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 35 Hz

Qms = 8.1

Vas = 334.6 liters

Xmax = 4 mm

Sd = 823.7 sq.cm

Qes = 0.63

Re = 6.32 ohms

Le = 1.1 mH

Z = 8 ohms

Pe = 350 watts

