

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

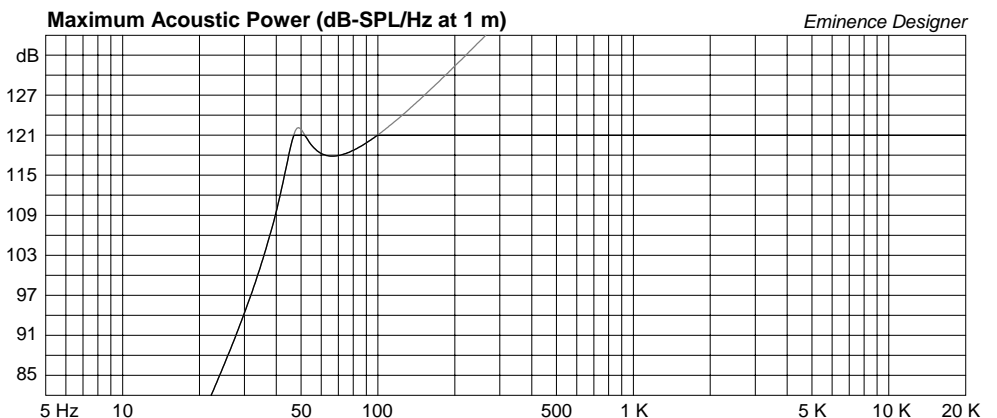
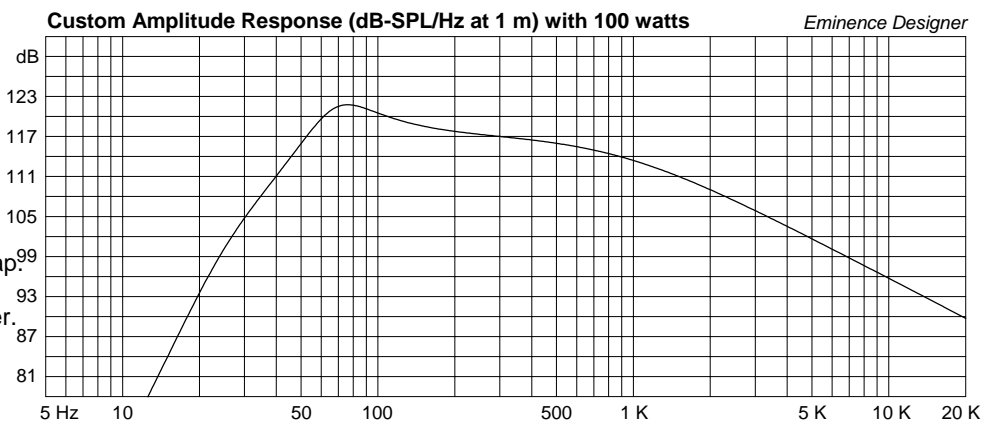
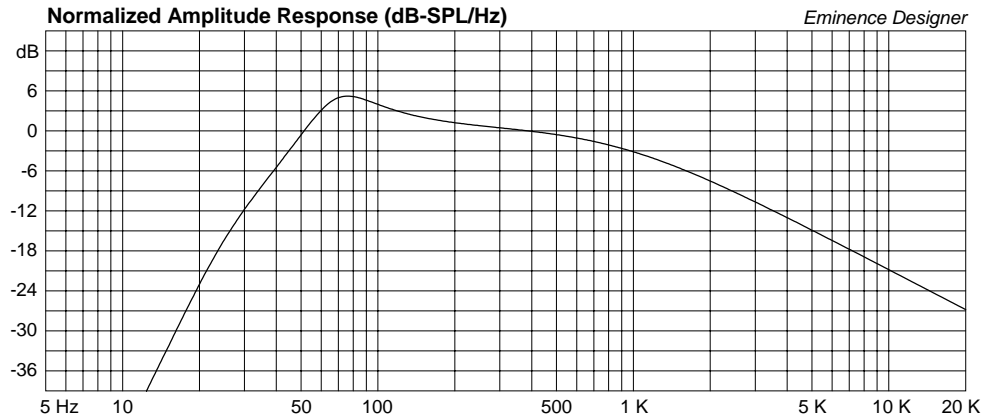
Qes = 0.63

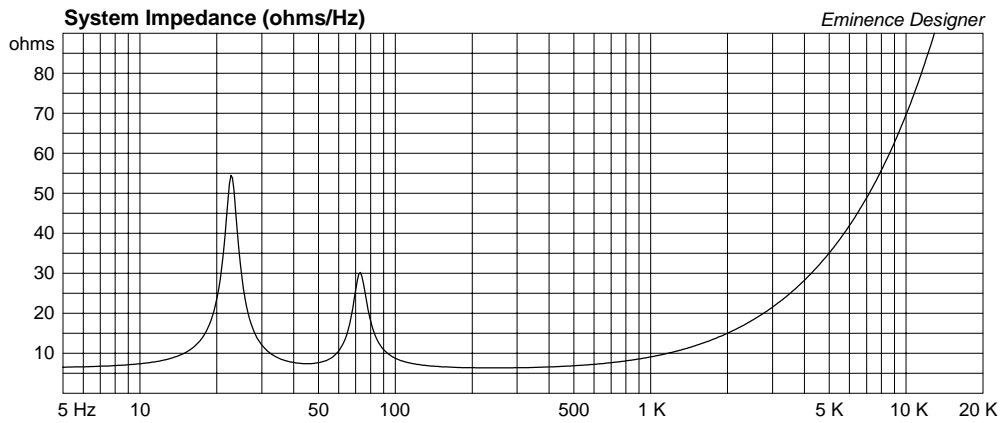
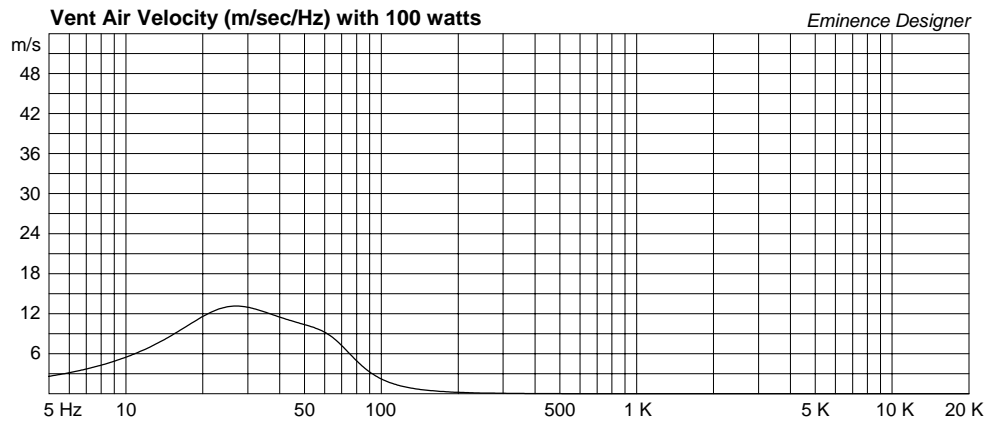
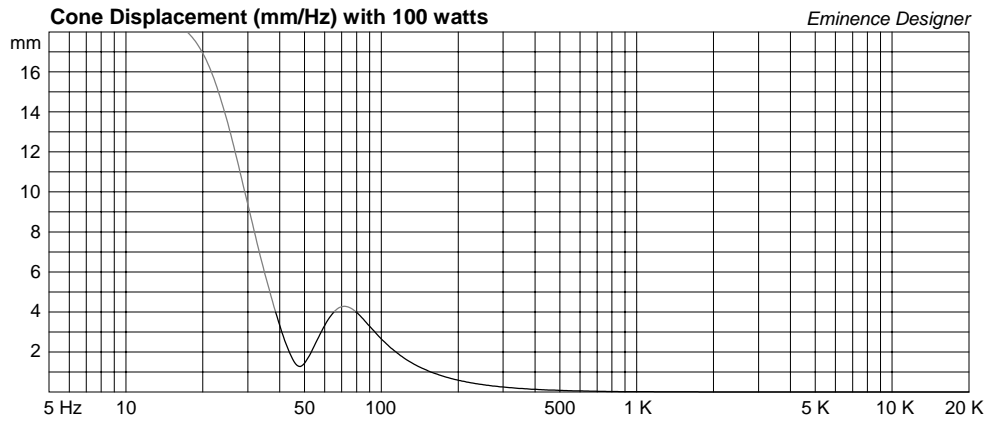
Re = 6.32 ohms

Le = 1.1 mH

Z = 8 ohms

Pe = 350 watts





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

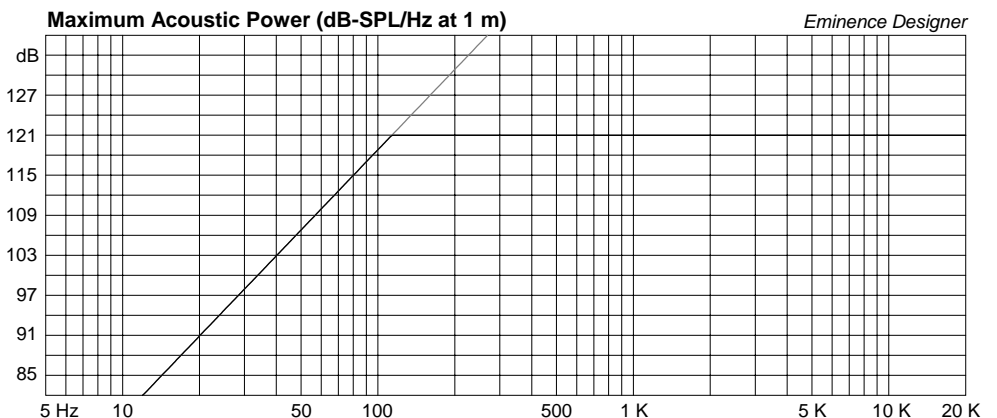
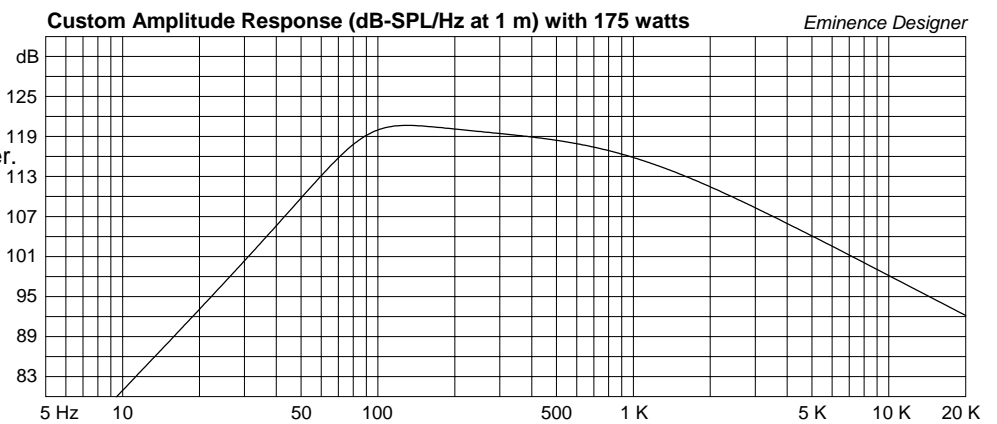
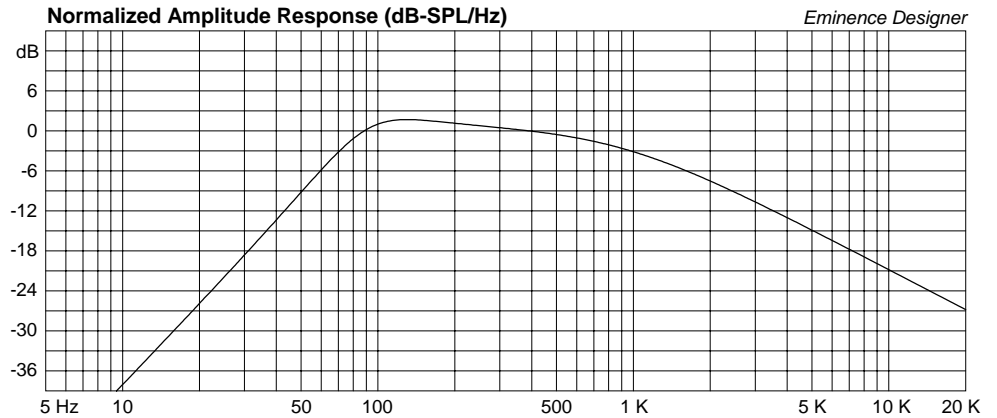
Qes = 0.63

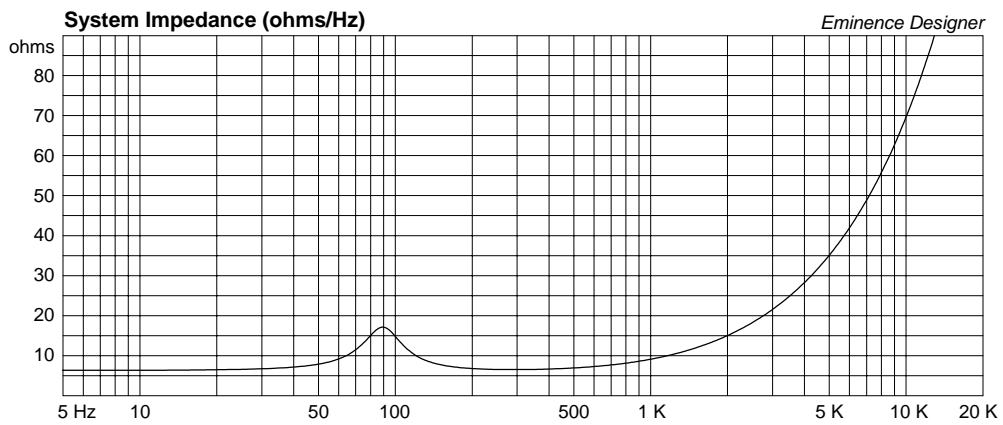
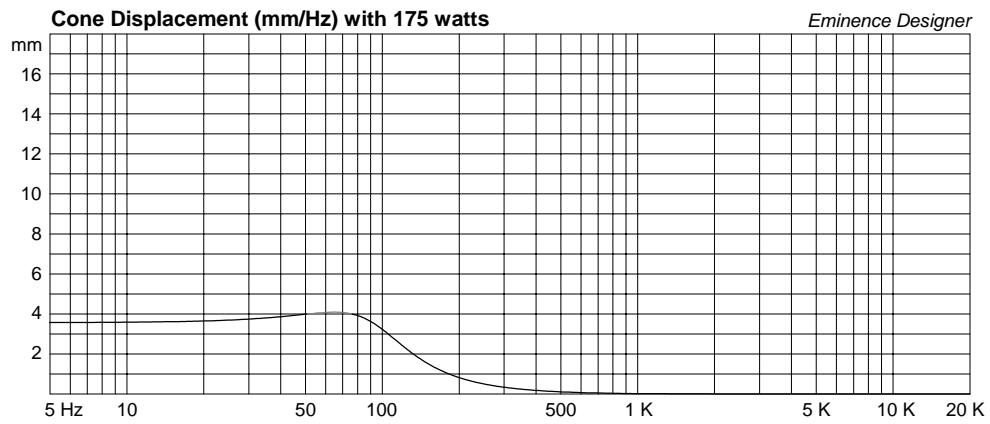
Re = 6.32 ohms

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

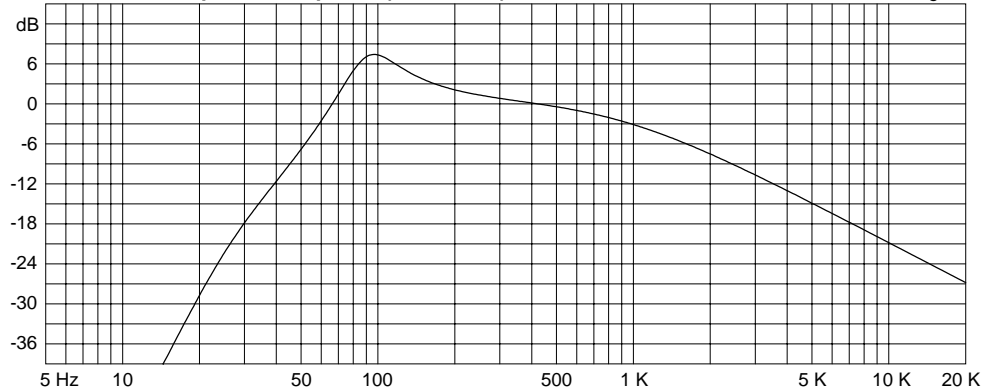
Le = 1.1 mH

Z = 8 ohms

Pe = 350 watts

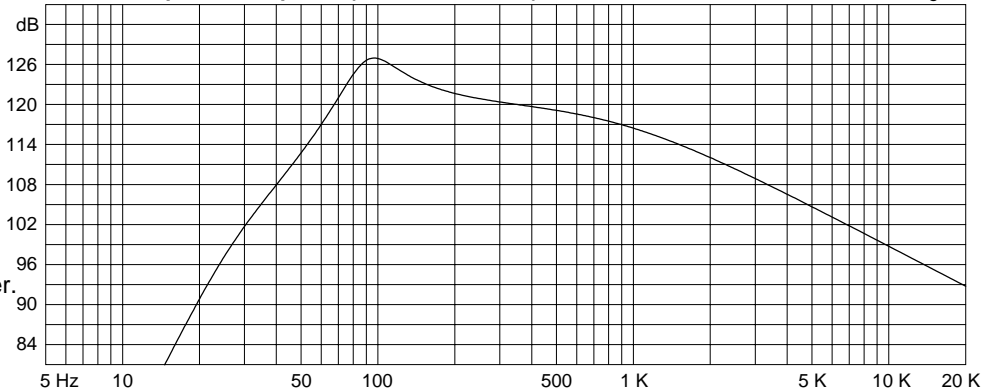
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts

Eminence Designer



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

Eminence Designer

