

OmegaPro15A Larger Woofer Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 250 Watts; F3 of 51 Hz. Good for full range PA if used with a steep 40 Hz high pass filter.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 3.279 cu.ft

V(total) = 3.551 cu.ft

Fb = 48 Hz

QL = 7

F3 = 50.75 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 6.248 in

Driver Properties

--Description--

Name: Omega Pro-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Ribbed paper cone.

Suspension: Rolled cone edge surround.

Dust Cap: Solid paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 4 inch (101.6 mm) copper.

Magnet: 109 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 32.96 Hz

Qms = 5.69

Vas = 258.5 liters

Xmax = 4.8 mm

Sd = 856.3 sq.cm

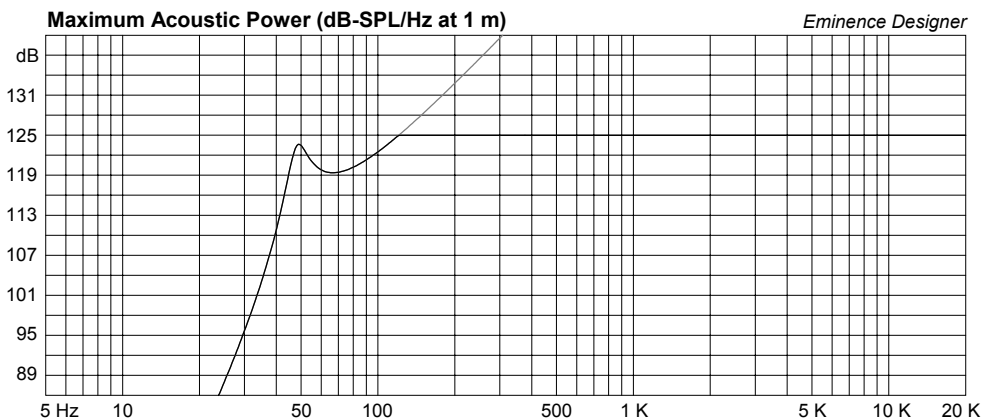
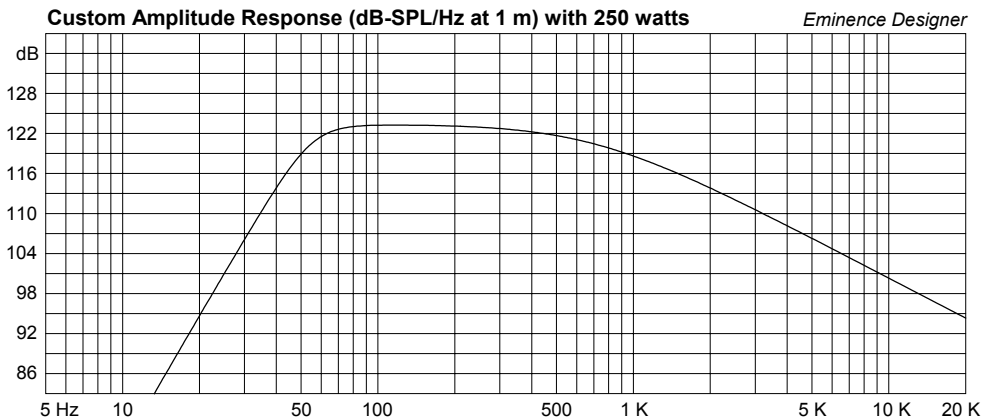
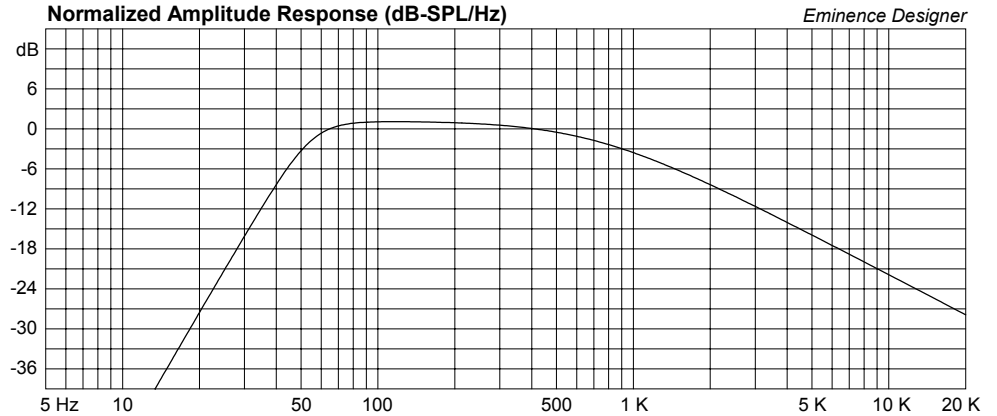
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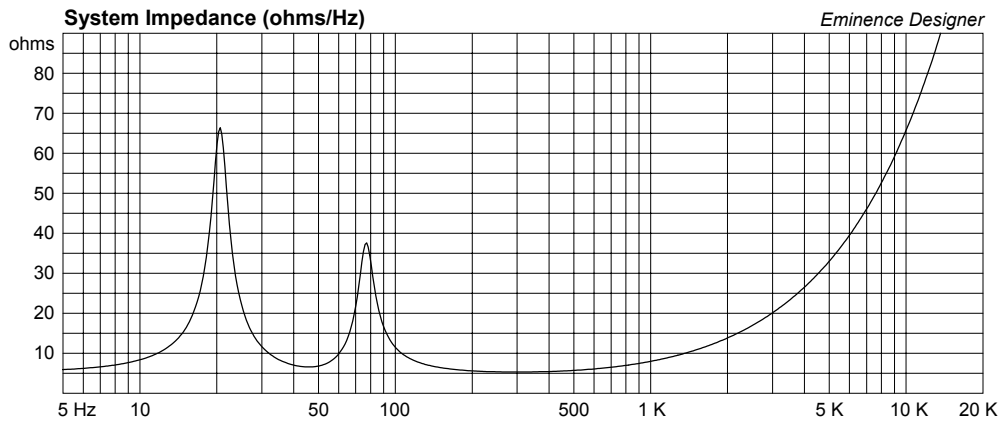
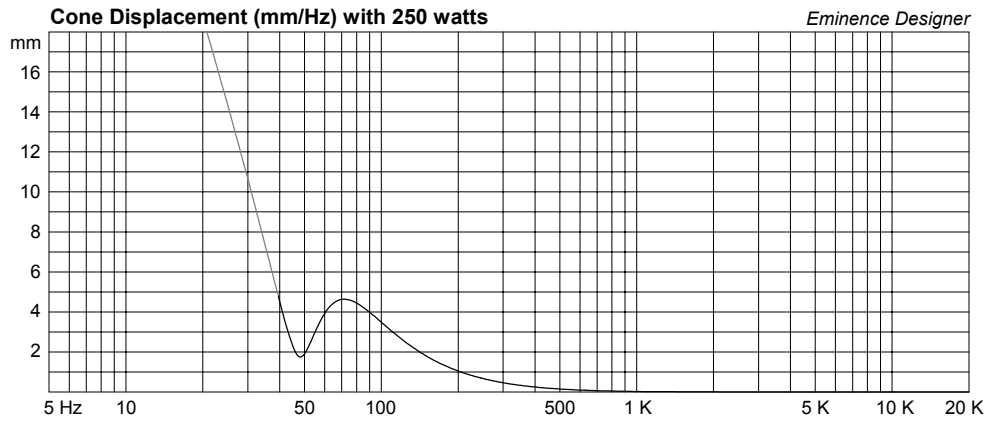
Re = 5.28 ohms

Le = 1.04 mH

Z = 8 ohms

Pe = 800 watts





OmegaPro15A Med Vented Woofer Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 450 Watts; F3 of 59 Hz. Good for full range PA when used with a high pass filter set to 50 Hz to protect woofer from overexcursion.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.75 cu.ft

V(total) = 2.952 cu.ft

Fb = 65 Hz

QL = 7

F3 = 59.36 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 2.579 in

Driver Properties

--Description--

Name: Omega Pro-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Ribbed paper cone.

Suspension: Rolled cone edge surround.

Dust Cap: Solid paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 4 inch (101.6 mm) copper.

Magnet: 109 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 32.96 Hz

Qms = 5.69

Vas = 258.5 liters

Xmax = 4.8 mm

Sd = 856.3 sq.cm

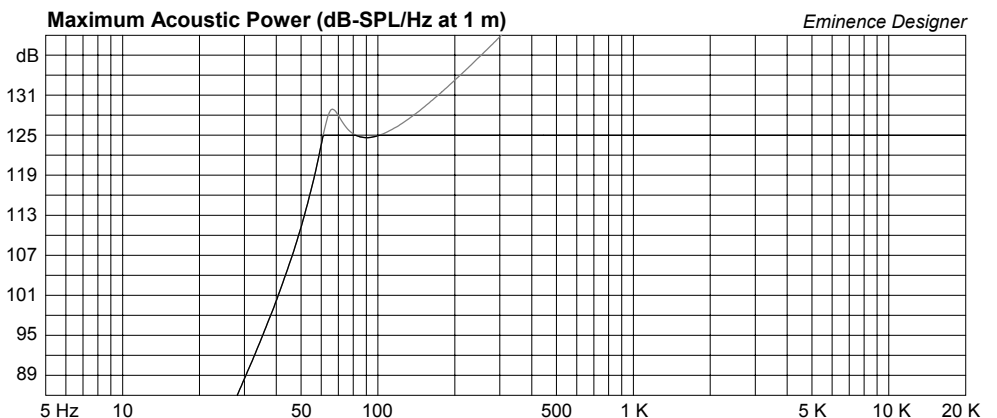
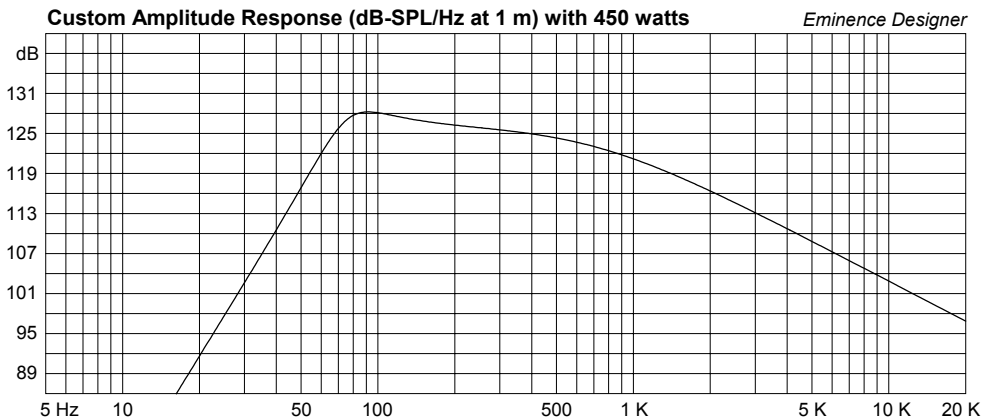
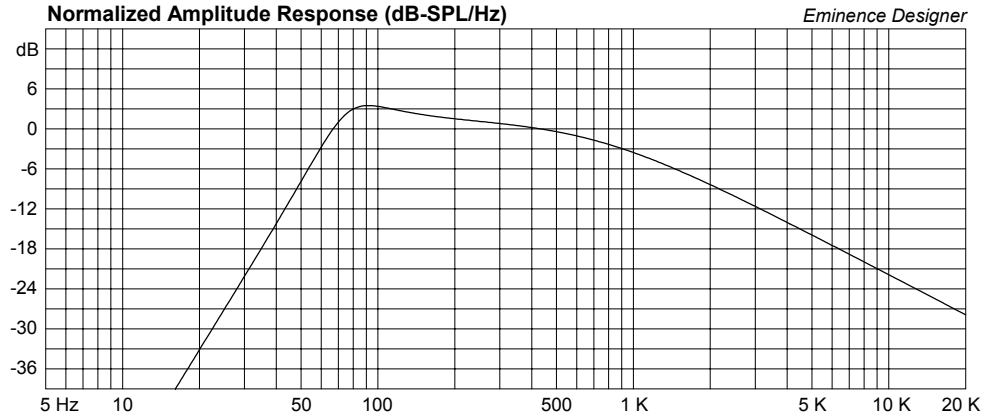
Qes = 0.33

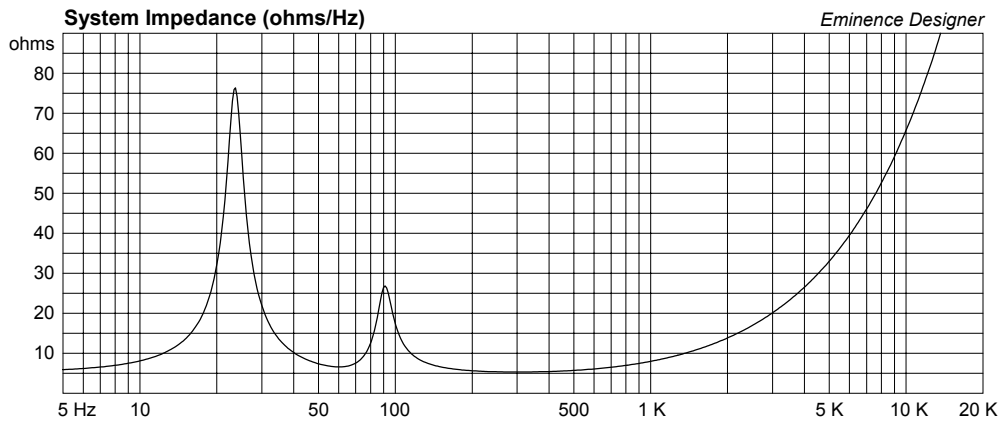
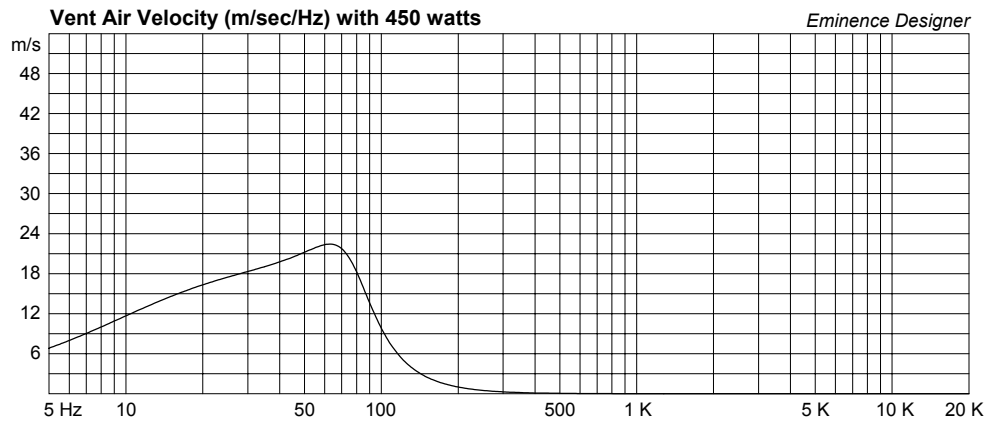
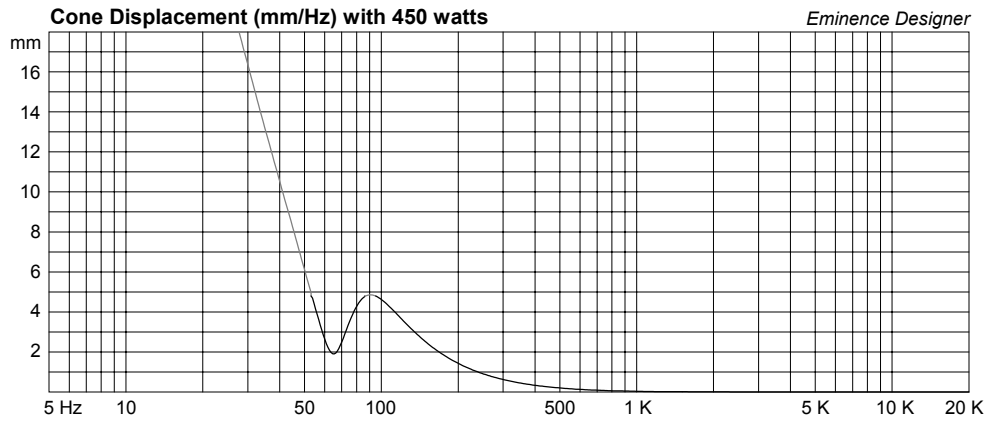
Re = 5.28 ohms

Le = 1.04 mH

Z = 8 ohms

Pe = 800 watts





OmegaPro15A Small Vented Hi Pwr Woofer Cabinet

By McJerry, Eminence Speaker LLC

Thermally Limited to 800 Watts; F3 of 76 Hz. Will need some EQ.

Use a 60 Hz high pass filter to protect woofer from overexcursion.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.7 cu.ft

V(total) = 2.057 cu.ft

Fb = 85 Hz

QL = 7

F3 = 75.67 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 6 in

Lv = 5.77 in

Driver Properties

--Description--

Name: Omega Pro-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Ribbed paper cone.

Suspension: Rolled cone edge surround.

Dust Cap: Solid paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 4 inch (101.6 mm) copper.

Magnet: 109 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 32.96 Hz

Qms = 5.69

Vas = 258.5 liters

Xmax = 4.8 mm

Sd = 856.3 sq.cm

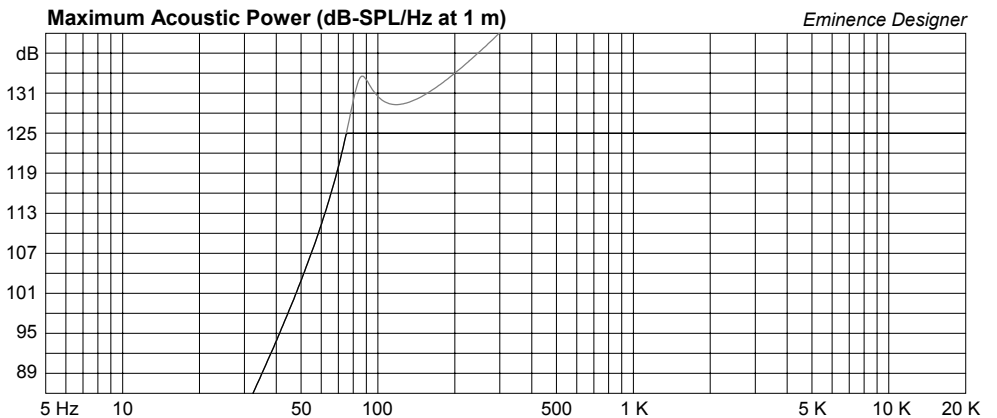
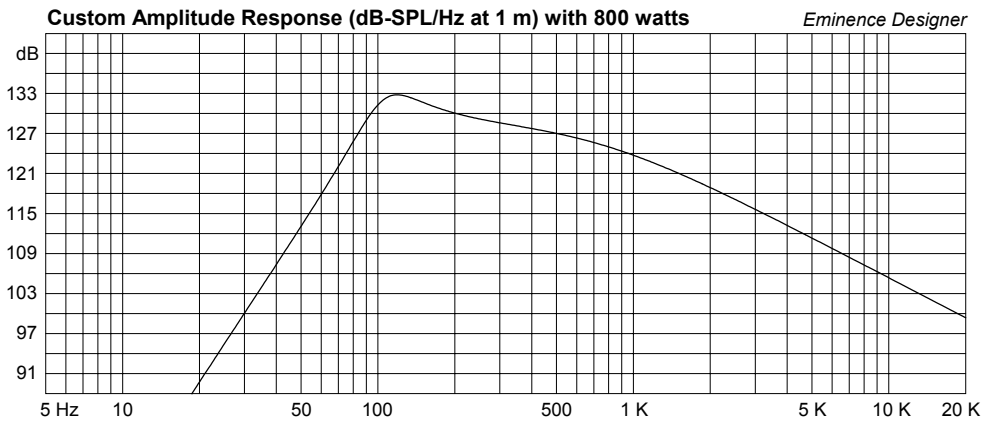
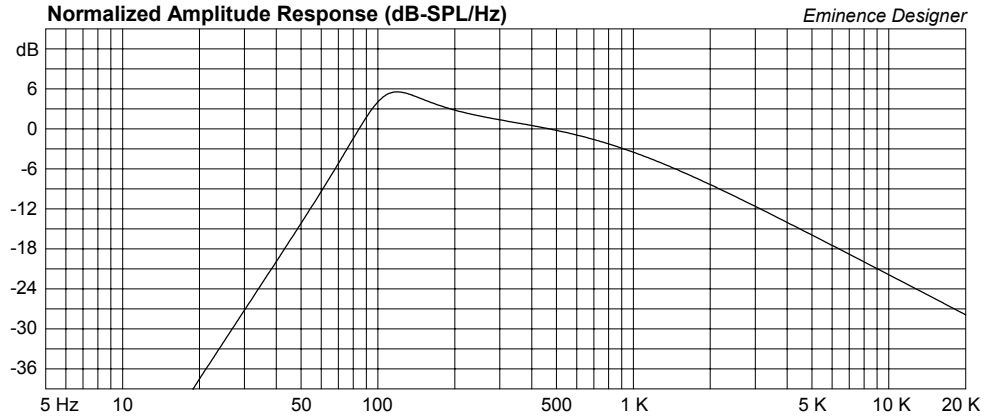
Qes = 0.33

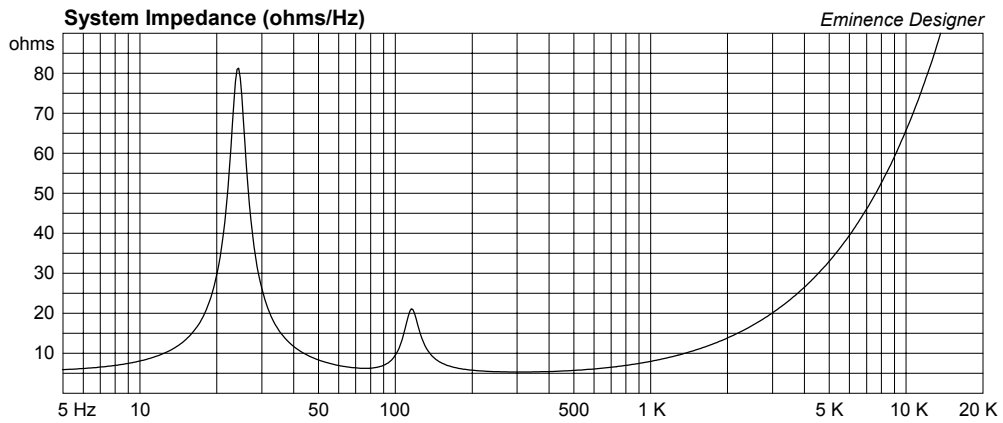
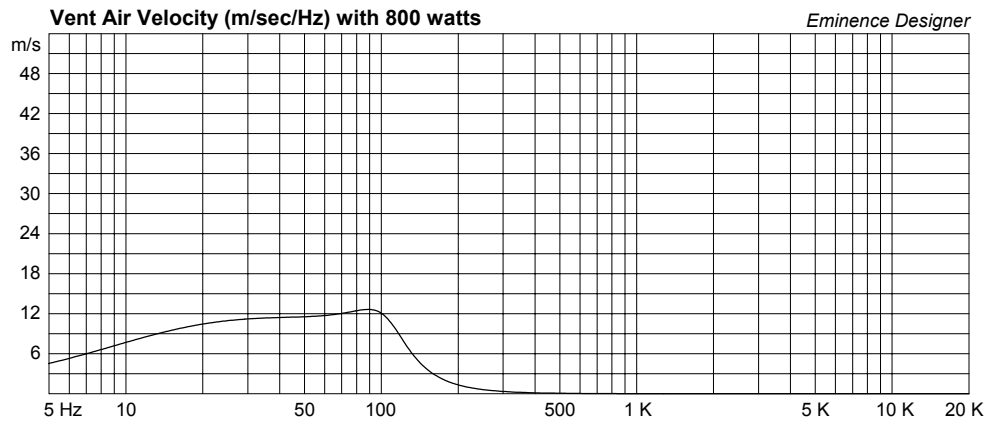
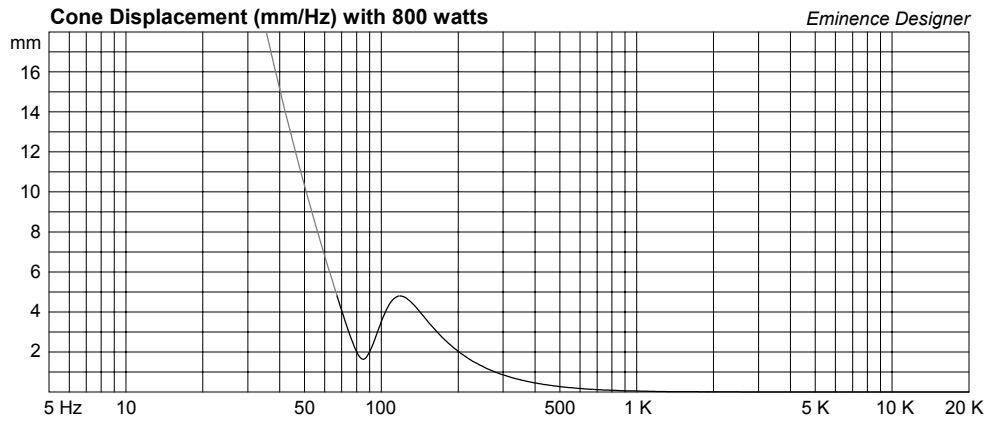
Re = 5.28 ohms

Le = 1.04 mH

Z = 8 ohms

Pe = 800 watts





Dual OmegaPro15A Med Vented Woofer Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 850 Watts; F3 of 59 Hz. Good for full range PA when used with a high pass filter set to 50 Hz to protect woofer from overexcursion.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 5.25 cu.ft

V(total) = 5.878 cu.ft

Fb = 62 Hz

QL = 7

F3 = 58.73 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 16.5 in

Wv = 2.5 in

Lv = 6.074 in

Driver Properties

--Description--

Name: Omega Pro-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Ribbed paper cone.

Suspension: Rolled cone edge surround.

Dust Cap: Solid paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 4 inch (101.6 mm) copper.

Magnet: 109 oz ferrite magnet.

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 32.96 Hz

Qms = 5.69

Vas = 258.5 liters [516.9]

Xmax = 4.8 mm

Sd = 856.3 sq.cm [1713]

Qes = 0.33

Re = 5.28 ohms [2.64]

Le = 1.04 mH [0.52]

Z = 8 ohms [4]

Pe = 800 watts [1600]

