

## Specification

Nominal Basket Diameter	18", 457.2mm
Nominal Impedance*	4 ohms
Power Rating**	
Watts	800W
Music Program	1600W
Resonance	23Hz
Usable Frequency Range***	40Hz-800Hz
Sensitivity	96.4
Magnet Weight	109 oz.
Gap Height	0.375", 9.53mm
Voice Coil Diameter	4", 101.6mm

## Thiele & Small Parameters

Resonant Frequency (fs)	23Hz
DC Resistance (Re)	2.5
Coil Inductance (Le)	0.61mH
Mechanical Q (Qms)	6.41
Electromagnetic Q (Qes)	0.29
Total Q (Qts)	0.28
Compliance Equivalent Volume (Vas)	639 ltr/22.6 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	556cc
Mechanical Compliance of Suspension (Cms)	0.34mm/N
BL Product (BL)	13.4 T-M
Diaphragm Mass inc. Airlod (Mms)	137 grams
Efficiency Bandwidth Product (EBP)	79
Maximum Linear Excursion (Xmax)	4.8mm
Surface Area of Cone (Sd)	1159.0cm <sup>2</sup>
Maximum Mechanical Limit (Xlim)	16.0mm

## Mounting Information

Recommended Enclosure Volume	
Sealed	N/A
Vented	99-193 ltr/3.5-6.8 cu.ft.
Overall Diameter	18", 457.2mm
Baffle Hole Diameter	16.56", 420.5mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.28", 7.1mm
Mounting Holes B.C.D.	17.25", 438.2mm
Depth	8.15", 207mm
Net Weight	25.1 lbs., 11.4 kg
Shipping Weight	28.6 lbs., 13 kg

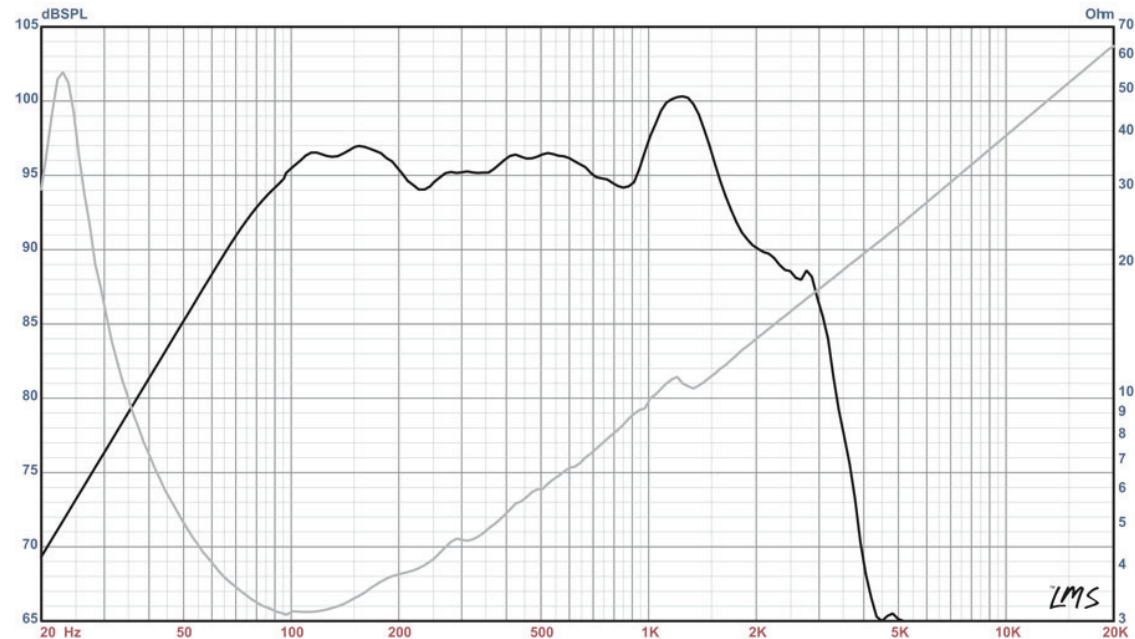
## Materials of Construction

Coil Construction	Copper
Coil	Polyimide
Magnet Composition	Ferrite
Core Details	Vented and Extended
Basket Materials	Die-Cast Aluminum
Cone Composition	Paper
Cone Edge Composition	Cloth
Dust Cap Composition	Solid Composition Paper



## OMEGA PRO-18C Professional Series

Recommended for professional audio as a woofer in vented enclosures. Also good for horn loading and scoops.



\* 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)

# OmegaPro18C Larger Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 200 Watts; F3 of 40 Hz. Use a steep high pass filter set to 30 Hz to protect woofer from overexcursion.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 6 cu.ft

V(total) = 6.503 cu.ft

Fb = 35 Hz

QL = 7

F3 = 40.39 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 6.54 in

## Driver Properties

--Description--

Name: Omega Pro-18 (4 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: Diecast aluminum basket.

Voice Coil: 4 inch (101.6 mm) copper.

Magnet: 109 oz ferrite magnet.

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 22.8 Hz

Qms = 6.414

Vas = 638.6 liters

Xmax = 4.8 mm

Sd = 1159 sq.cm

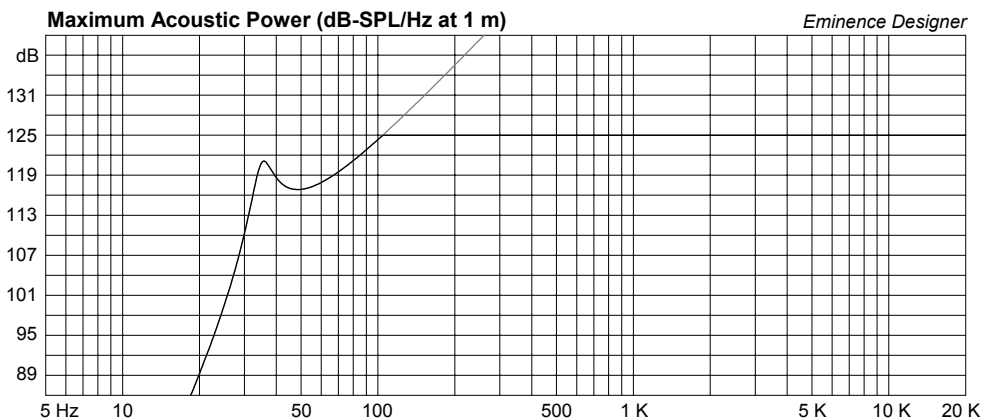
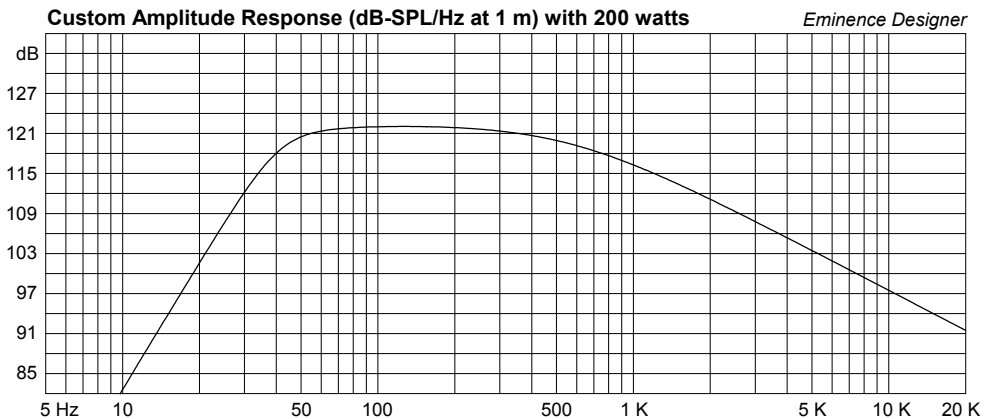
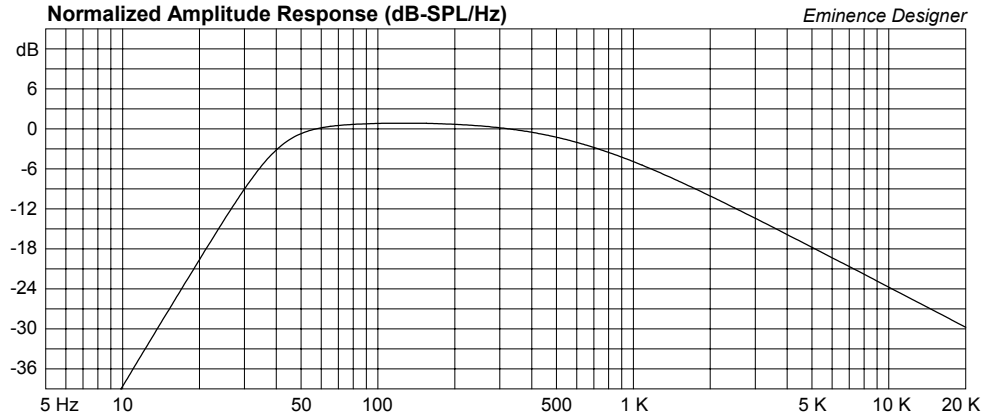
Qes = 0.29

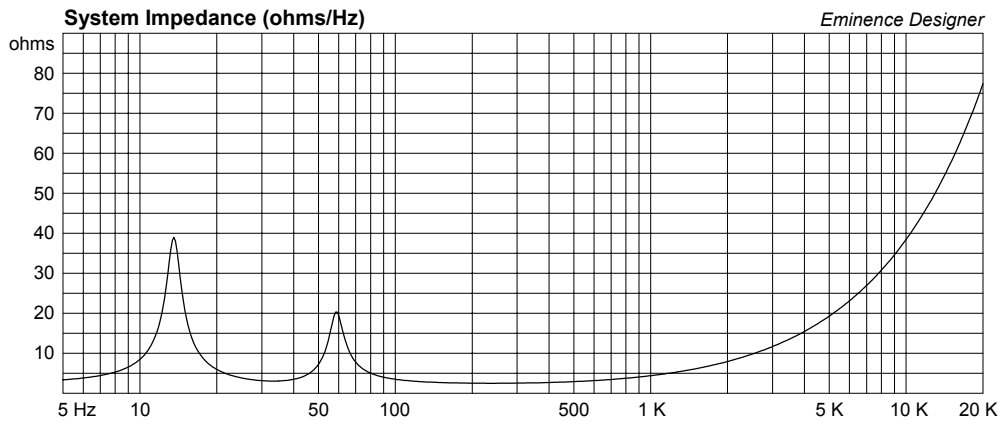
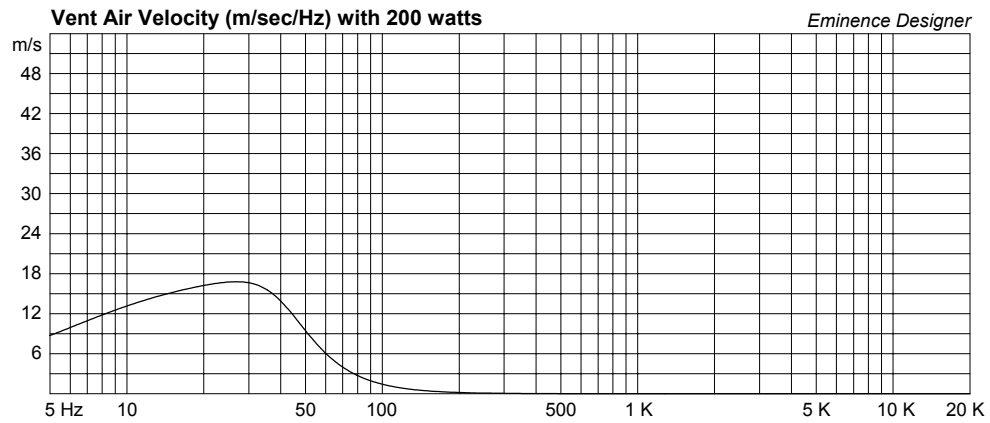
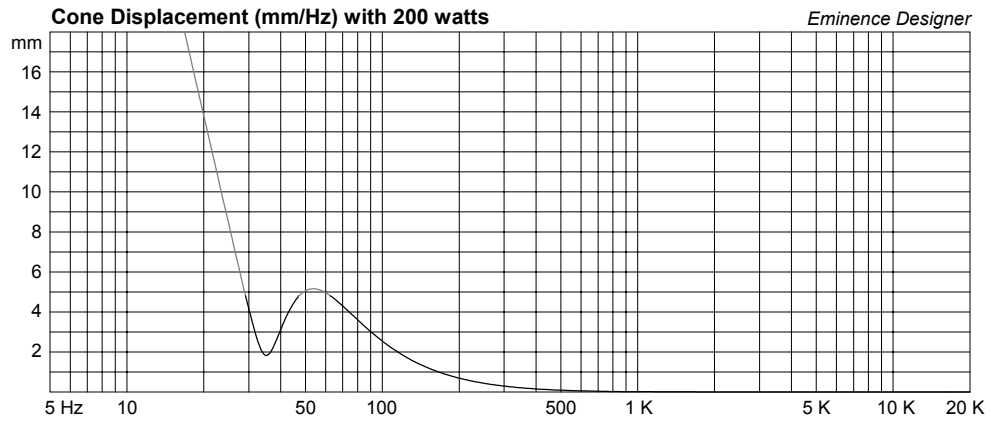
Re = 2.5 ohms

Le = 0.61 mH

Z = 4 ohms

Pe = 800 watts





# OmegaPro18C Med Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 250 Watts; F3 of 44 Hz. Use a steep high pass filter set to 35 Hz to protect woofer from overexcursion.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 4.9 cu.ft

V(total) = 5.39 cu.ft

Fb = 40 Hz

QL = 7

F3 = 43.92 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 5.866 in

## Driver Properties

--Description--

Name: Omega Pro-18 (4 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: Diecast aluminum basket.

Voice Coil: 4 inch (101.6 mm) copper.

Magnet: 109 oz ferrite magnet.

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 22.8 Hz

Qms = 6.414

Vas = 638.6 liters

Xmax = 4.8 mm

Sd = 1159 sq.cm

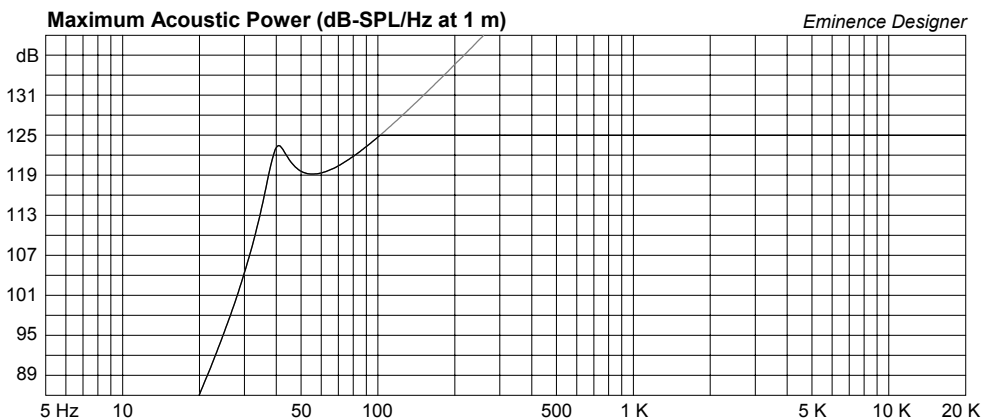
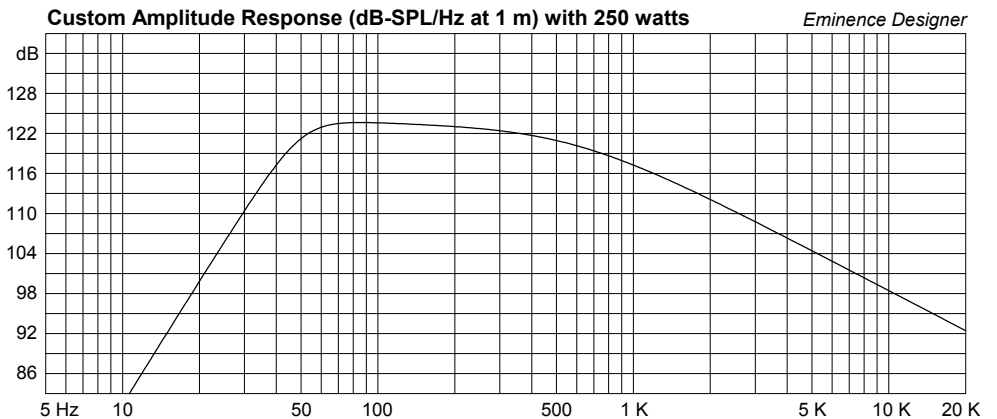
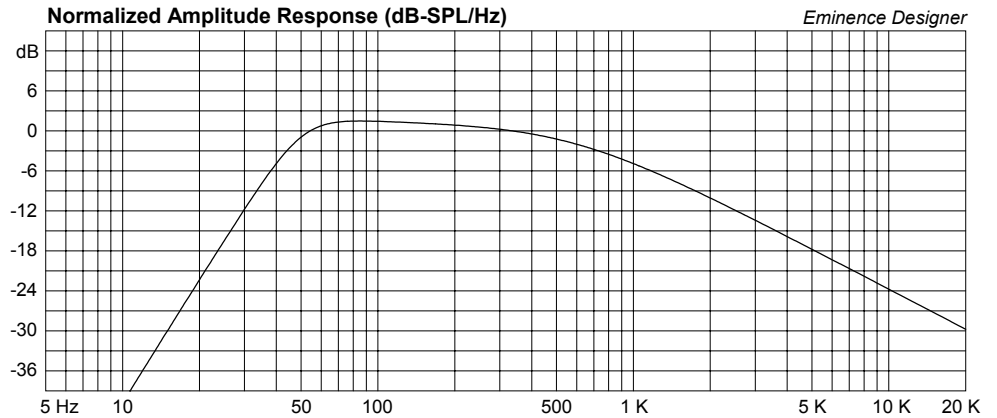
Qes = 0.29

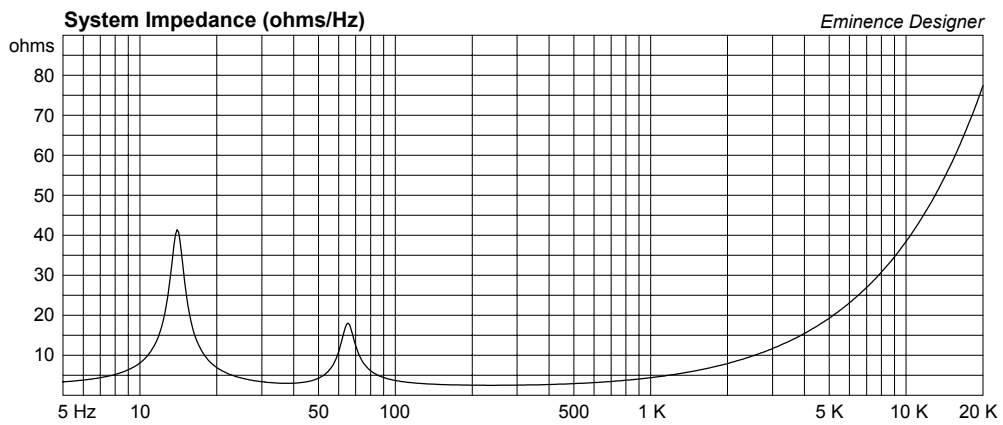
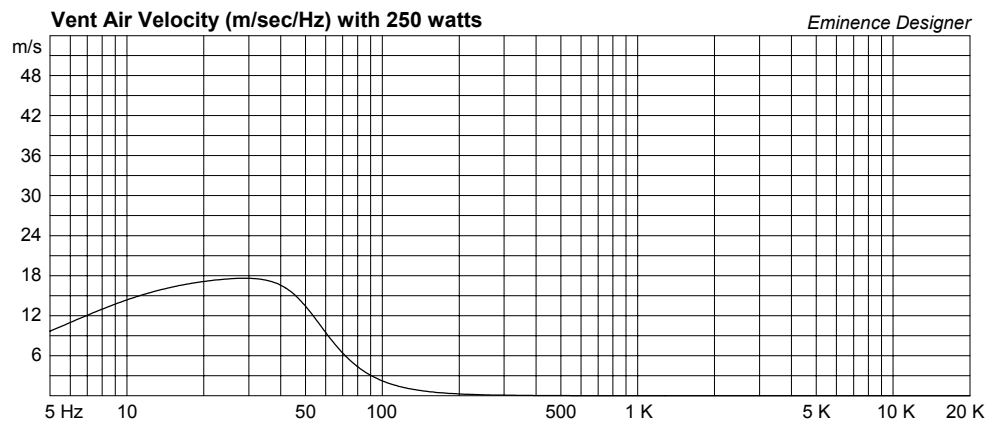
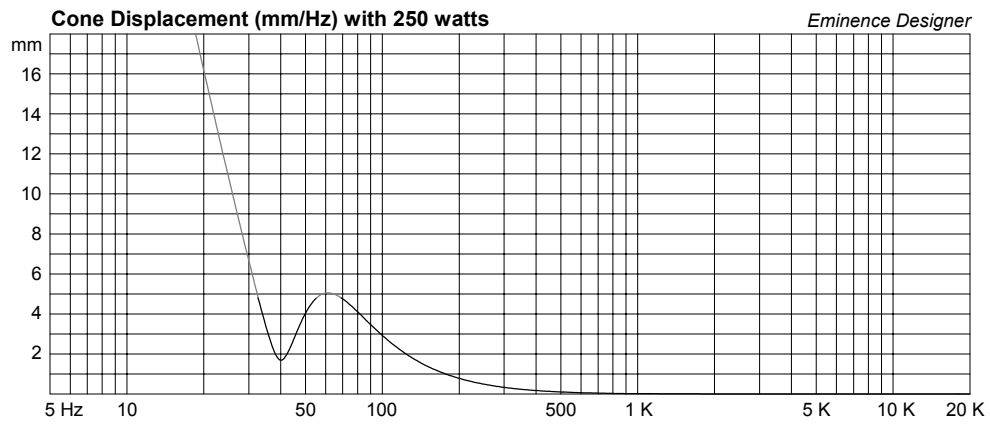
Re = 2.5 ohms

Le = 0.61 mH

Z = 4 ohms

Pe = 800 watts





# OmegaPro18C Small Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 400 Watts; F3 of 54 Hz. Use a steep high pass filter set to 40 Hz to protect woofer from overexcursion.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3 cu.ft

V(total) = 3.535 cu.ft

Fb = 46 Hz

QL = 7

F3 = 53.69 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 8.242 in

## Driver Properties

--Description--

Name: Omega Pro-18 (4 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: Diecast aluminum basket.

Voice Coil: 4 inch (101.6 mm) copper.

Magnet: 109 oz ferrite magnet.

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 22.8 Hz

Qms = 6.414

Vas = 638.6 liters

Xmax = 4.8 mm

Sd = 1159 sq.cm

Qes = 0.29

Re = 2.5 ohms

Le = 0.61 mH

Z = 4 ohms

Pe = 800 watts

