OmegaPro18A Large Vented Cabinet

By McJerry, Eminence Speaker LLC
Displacement Limited to 200 Watts; F3 of 40 Hz. Must use a 30 Hz High Pass filter to protect woofer from overexcursion.

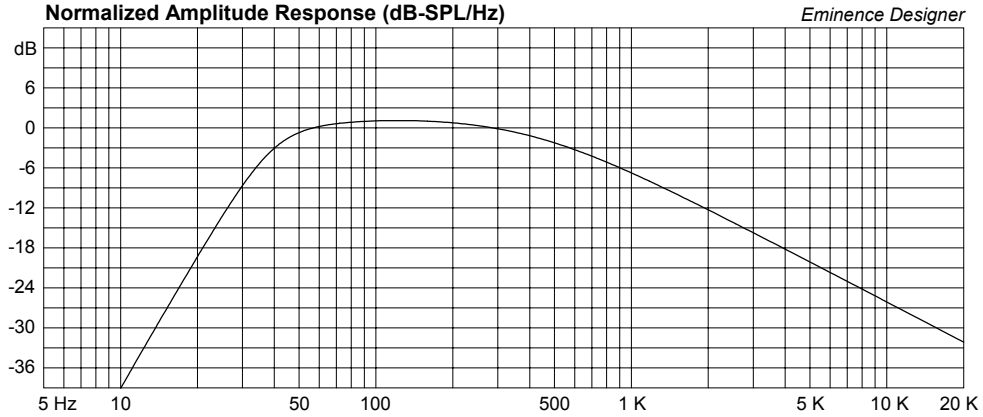
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 6.581 cu.ft
V(total) = 6.922 cu.ft
Fb = 35 Hz
QL = 7
F3 = 40.11 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 3 in
Lv = 5.588 in

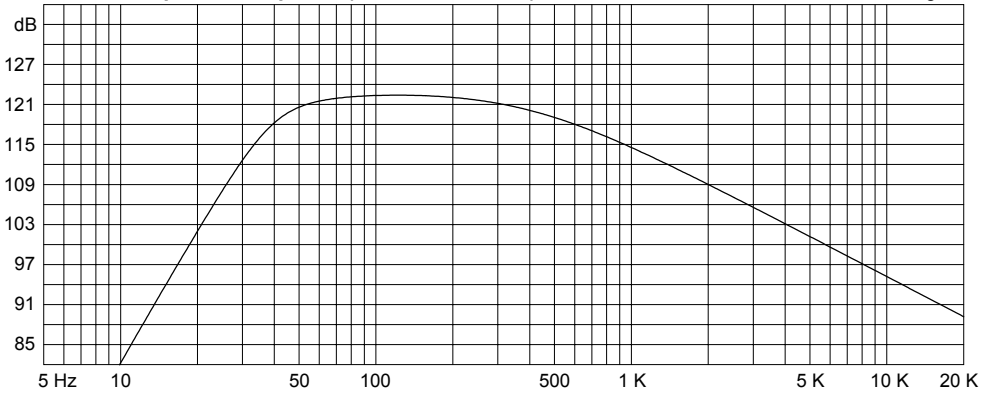
Driver Properties

--Description--
Name: Omega Pro-18 (8 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 = 25.33 Hz
Qms = 8.18
Vas = 548.7 liters
Xmax = 4.8 mm
Sd = 1159 sq.cm
Qes = 0.321
Re = 5.2 ohms
Le = 1.67 mH
Z = 8 ohms
Pe = 800 watts

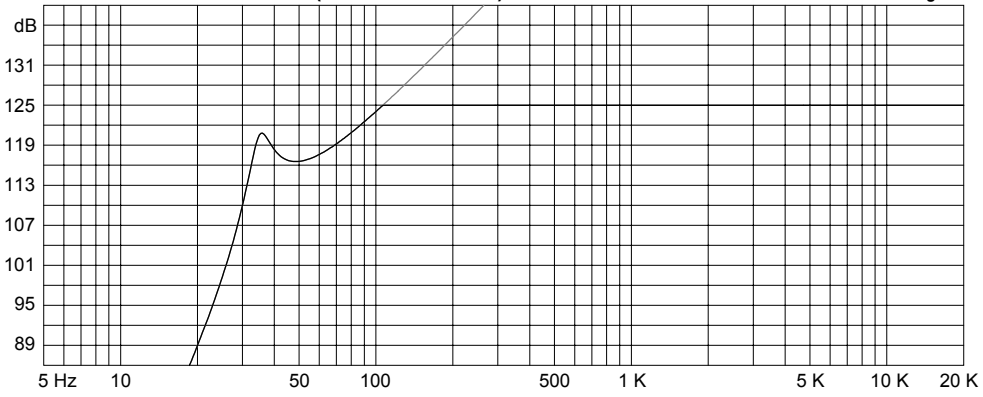
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



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

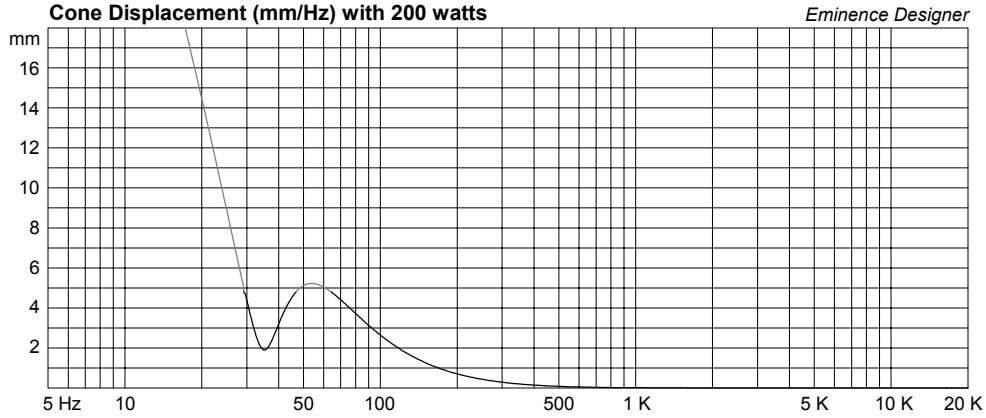


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



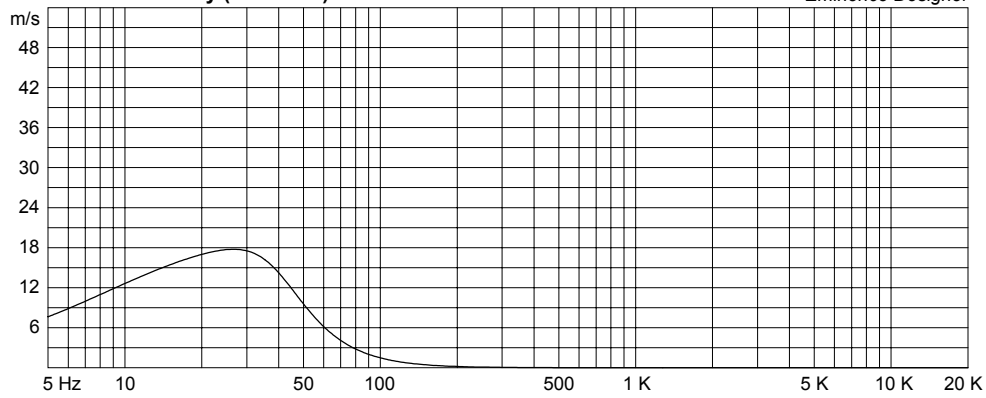
Cone Displacement (mm/Hz) with 200 watts

Eminence Designer



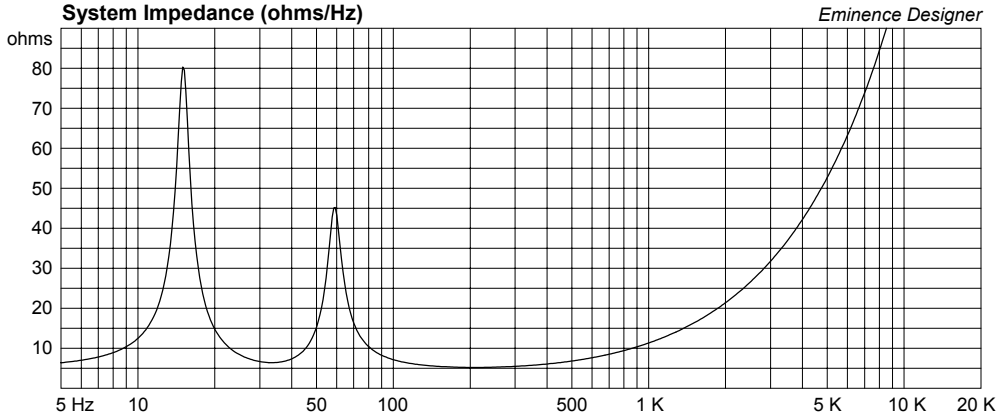
Vent Air Velocity (m/sec/Hz) with 200 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



OmegaPro18A Med Vented Cabinet

By McJerry, Eminence Speaker LLC
Displacement Limited to 250 Watts; F3 of 45 Hz. Must use a High Pass filter set to 40 Hz to protect woofer from overexcursion.

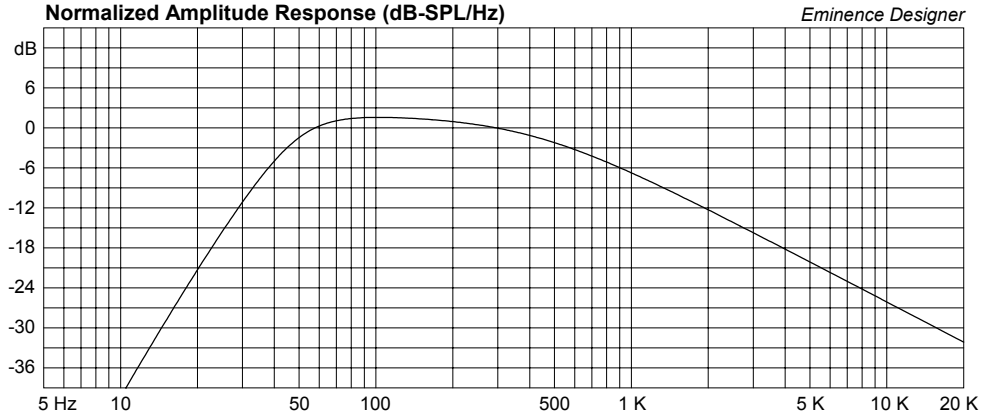
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 5 cu.ft
V(total) = 5.363 cu.ft
Fb = 38 Hz
QL = 7
F3 = 44.8 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 3 in
Lv = 6.734 in

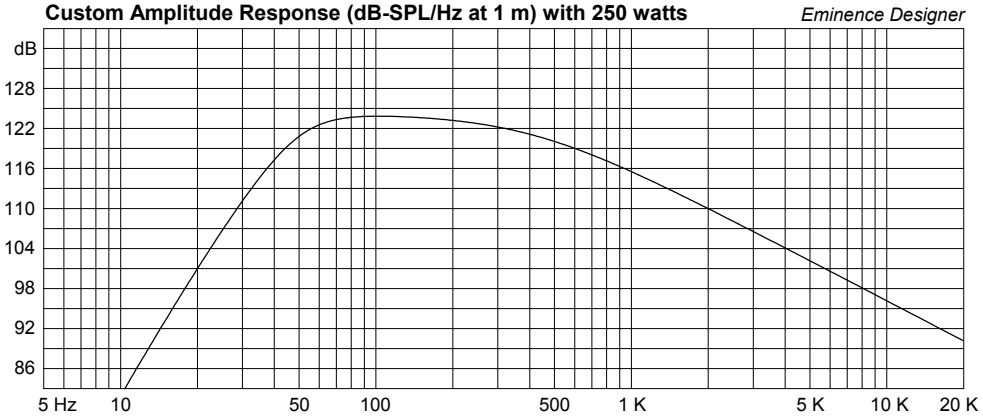
Driver Properties

--Description--
Name: Omega Pro-18 (8 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 = 25.33 Hz
Qms = 8.18
Vas = 548.7 liters
Xmax = 4.8 mm
Sd = 1159 sq.cm
Qes = 0.321
Re = 5.2 ohms
Le = 1.67 mH
Z = 8 ohms
Pe = 800 watts

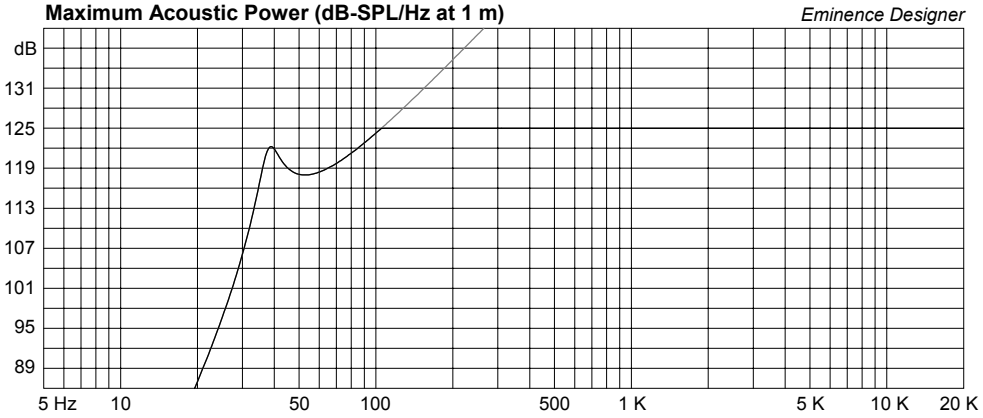
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 250 watts *Eminence Designer*

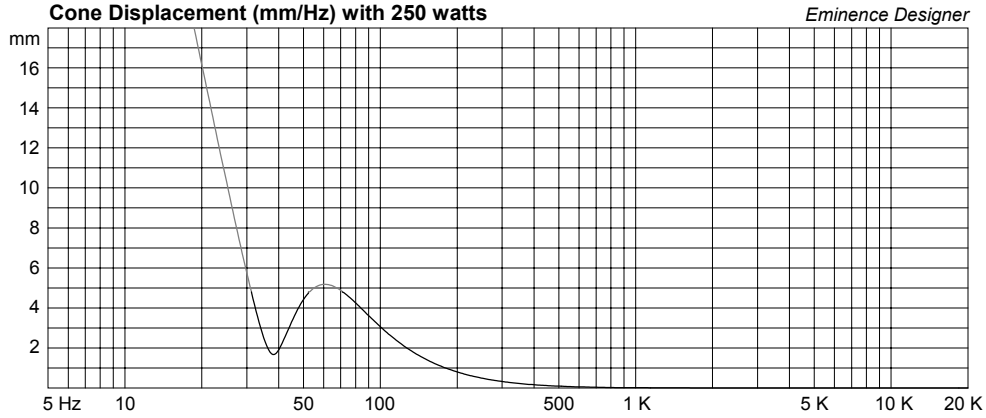


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



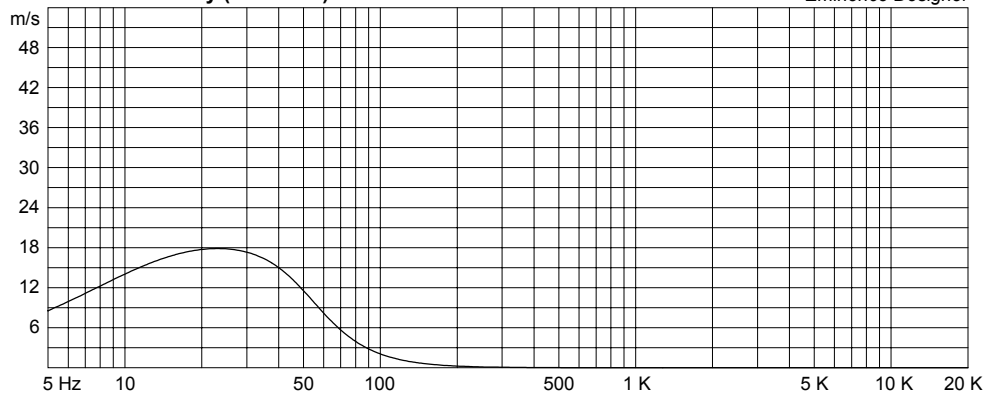
Cone Displacement (mm/Hz) with 250 watts

Eminence Designer



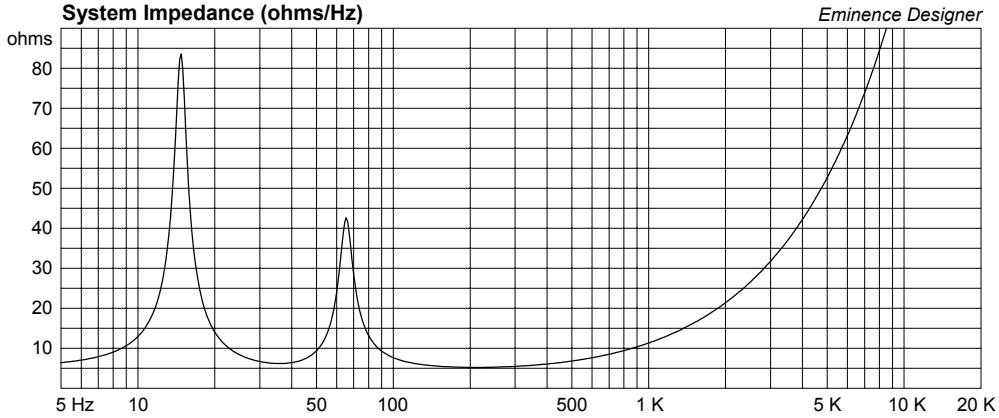
Vent Air Velocity (m/sec/Hz) with 250 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



OmegaPro18A Small Vented Box

By McJerry, Eminence Speaker LLC
Displacement Limited to 400 Watts; F3 of 55 Hz. Must use a high pass filter set to 50 Hz to protect woofer from overexcursion.

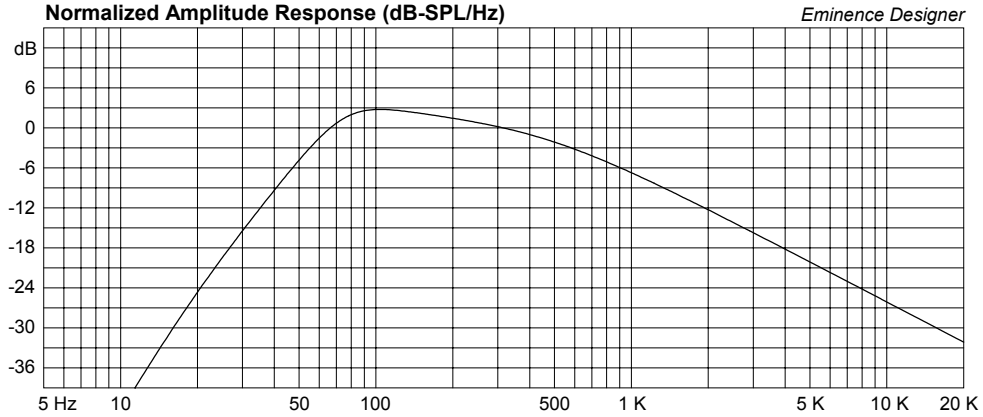
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 3 cu.ft
V(total) = 3.414 cu.ft
Fb = 44 Hz
QL = 7
F3 = 55.1 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 3 in
Lv = 9.403 in

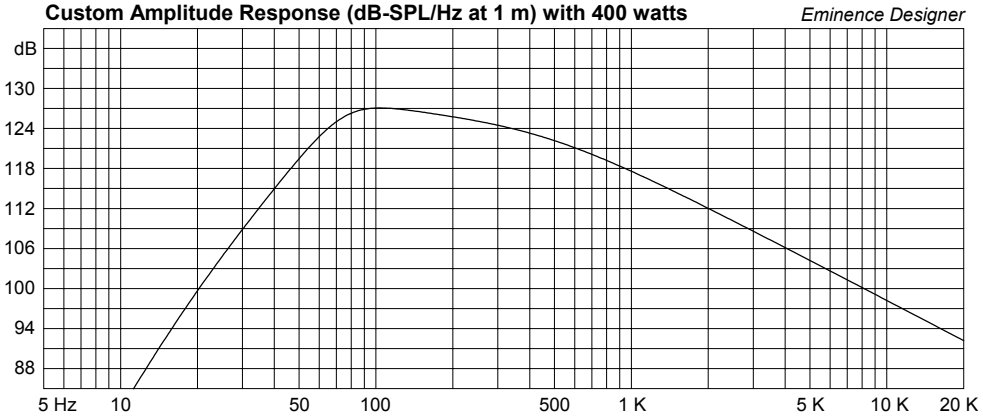
Driver Properties

--Description--
Name: Omega Pro-18 (8 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 = 25.33 Hz
Qms = 8.18
Vas = 548.7 liters
Xmax = 4.8 mm
Sd = 1159 sq.cm
Qes = 0.321
Re = 5.2 ohms
Le = 1.67 mH
Z = 8 ohms
Pe = 800 watts

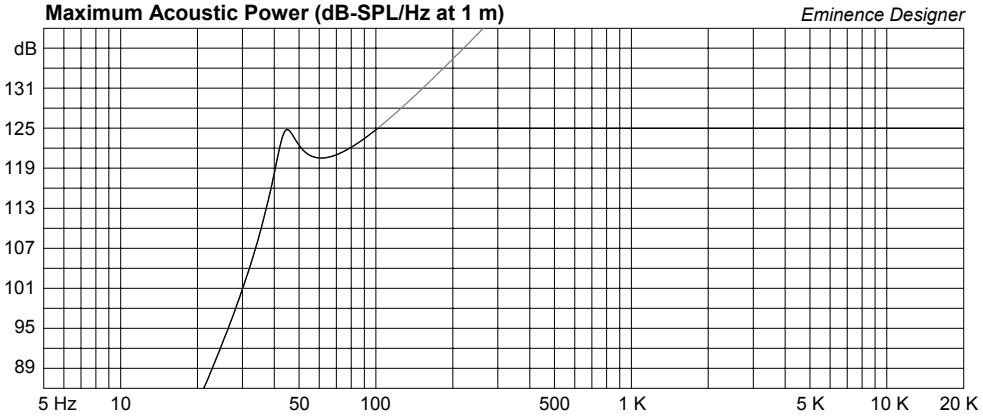
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 400 watts *Eminence Designer*

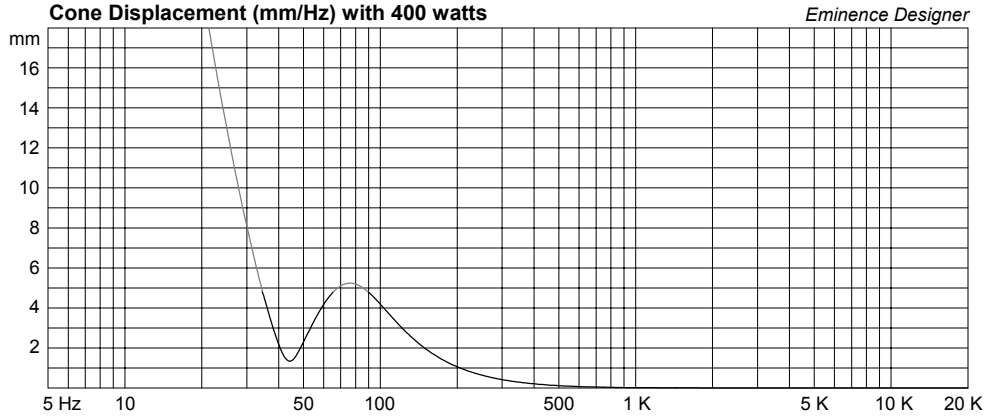


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



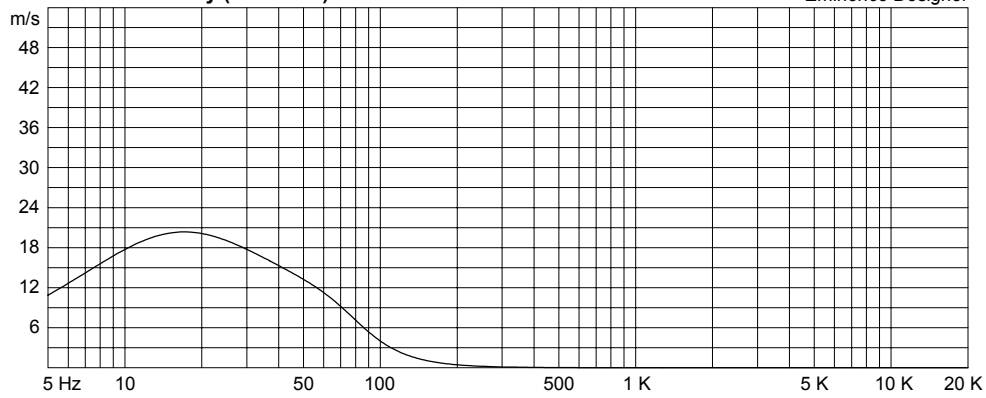
Cone Displacement (mm/Hz) with 400 watts

Eminence Designer



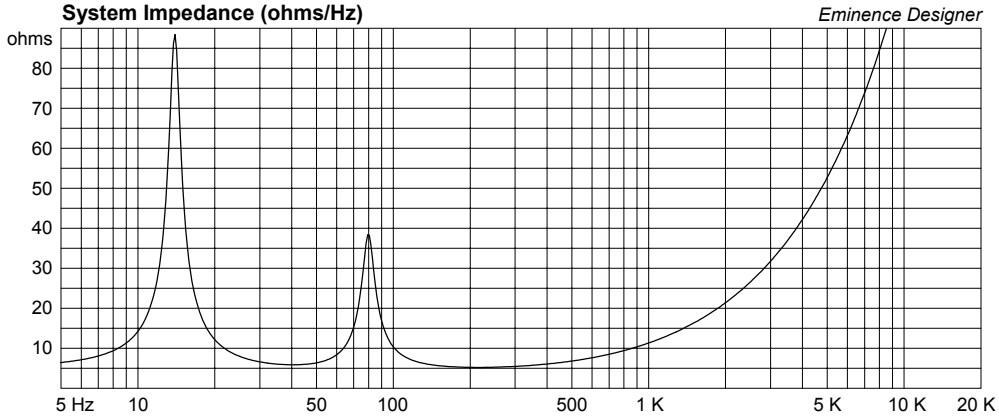
Vent Air Velocity (m/sec/Hz) with 400 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



Dual OmegaPro18A Med Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 550 Watts; F3 of 47 Hz. Must use a High Pass filter set to 35 Hz to protect woofer from over excursion.

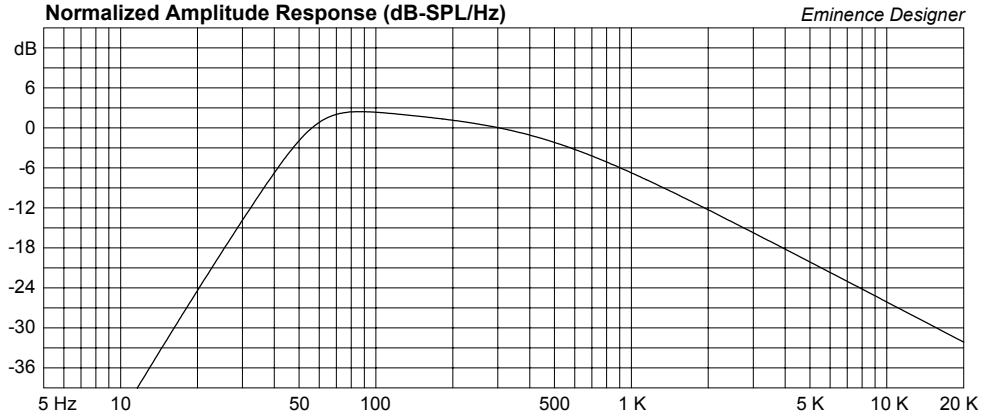
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 9 cu.ft
V(total) = 10.09 cu.ft
Fb = 45 Hz
QL = 7
F3 = 47.3 Hz
Fill = minimal
--Vents--
No. of Vents = 2
Vent shape = rectangle
Vent ends = one flush
Hv = 20 in
Wv = 2.5 in
Lv = 9.73 in

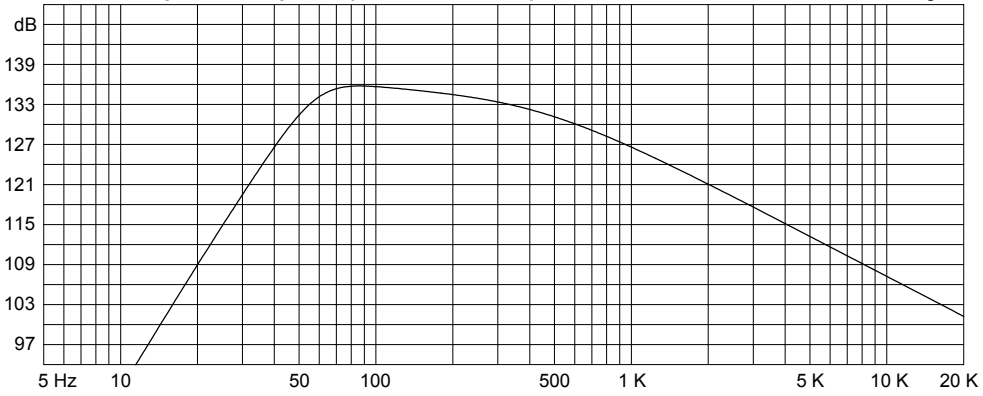
Driver Properties

--Description--
Name: Omega Pro-18 (8 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 = 2
Mounting = Standard
Wiring = Parallel
Drivers sum coherently = Yes
--Driver Parameters--
Fs = 25.33 Hz
Qms = 8.18
Vas = 548.7 liters [1097]
Xmax = 4.8 mm
Sd = 1159 sq.cm [2318]
Qes = 0.321
Re = 5.2 ohms [2.6]
Le = 1.67 mH [0.835]
Z = 8 ohms [4]
Pe = 800 watts [1600]

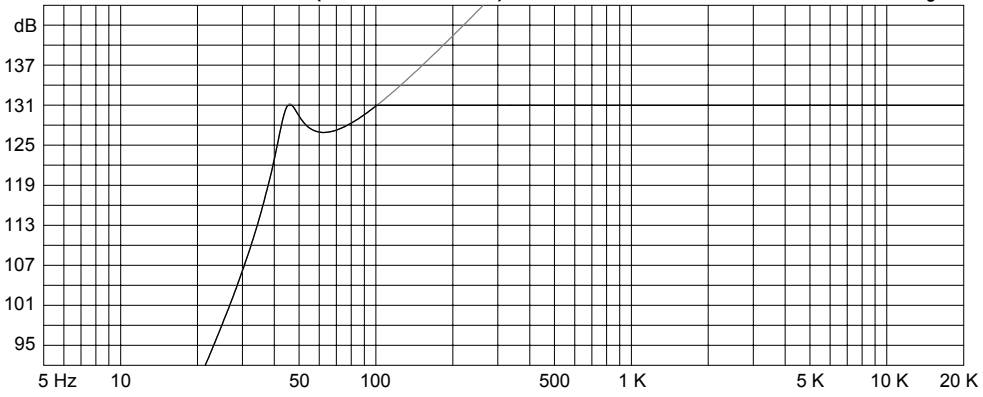
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1600 watts *Eminence Designer*

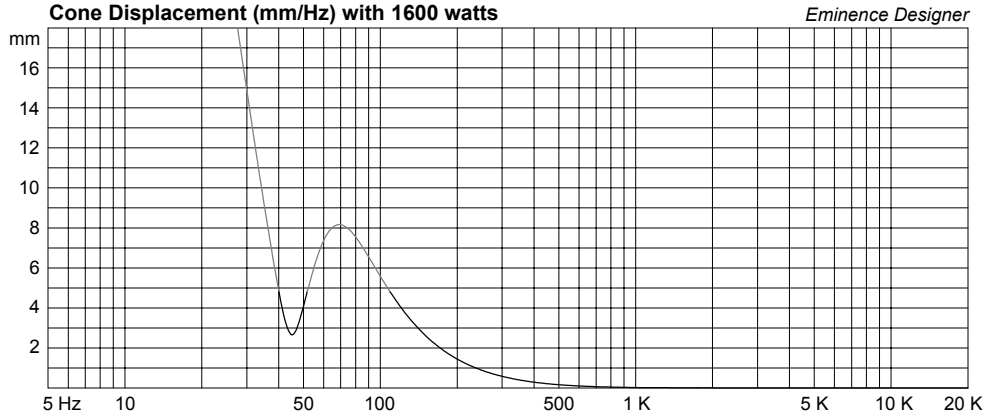


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



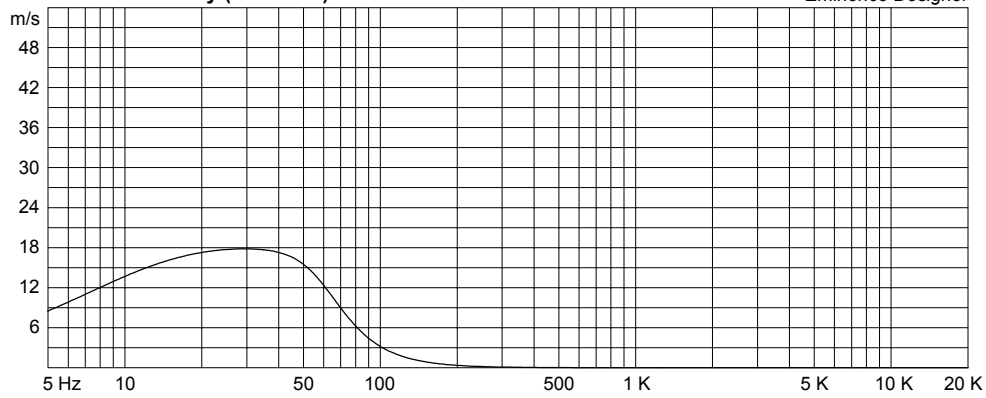
Cone Displacement (mm/Hz) with 1600 watts

Eminence Designer



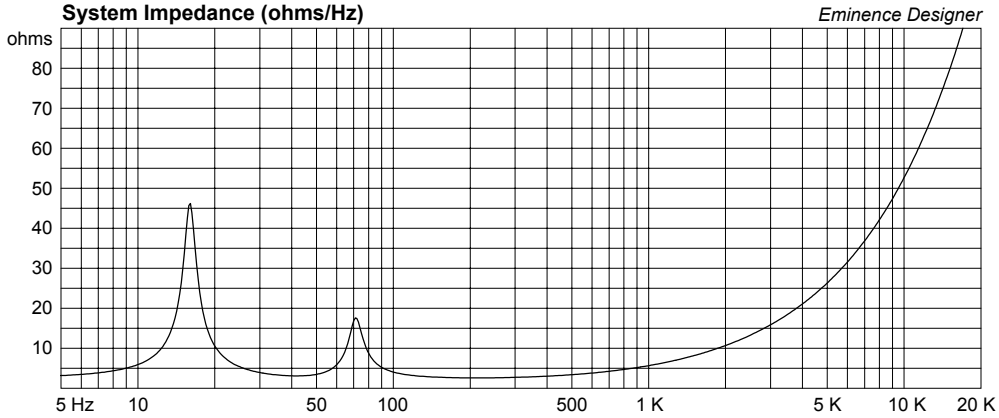
Vent Air Velocity (m/sec/Hz) with 1600 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



Dual OmegaPro18A Large Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 300 Watts; F3 of 40 Hz. Must use a High Pass filter set to 30Hz to protect woofer from over excursion.

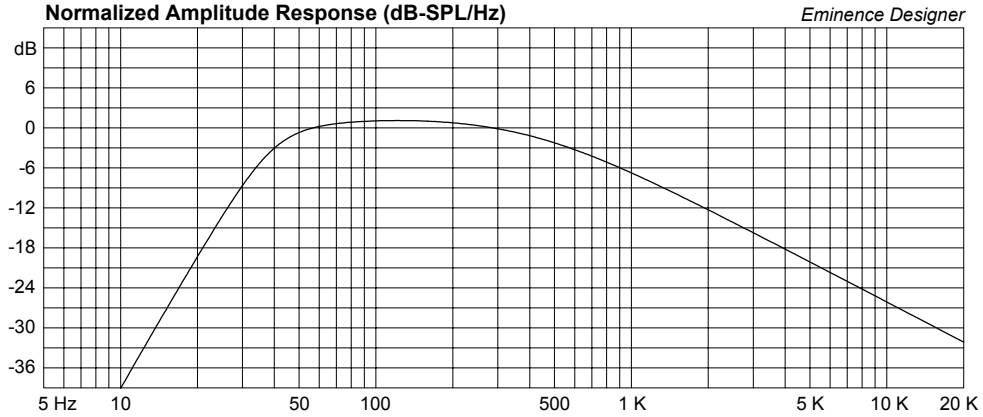
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 13.16 cu.ft
V(total) = 14.39 cu.ft
Fb = 35 Hz
QL = 7
F3 = 40.1 Hz
Fill = minimal
--Vents--
No. of Vents = 2
Vent shape = rectangle
Vent ends = one flush
Hv = 20 in
Wv = 2.5 in
Lv = 11.73 in

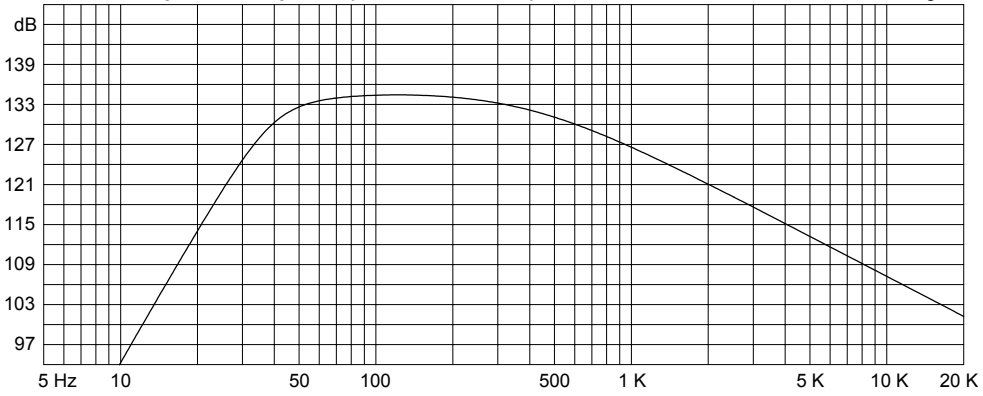
Driver Properties

--Description--
Name: Omega Pro-18 (8 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 = 2
Mounting = Standard
Wiring = Parallel
Drivers sum coherently = Yes
--Driver Parameters--
Fs = 25.33 Hz
Qms = 8.18
Vas = 548.7 liters [1097]
Xmax = 4.8 mm
Sd = 1159 sq.cm [2318]
Qes = 0.321
Re = 5.2 ohms [2.6]
Le = 1.67 mH [0.835]
Z = 8 ohms [4]
Pe = 800 watts [1600]

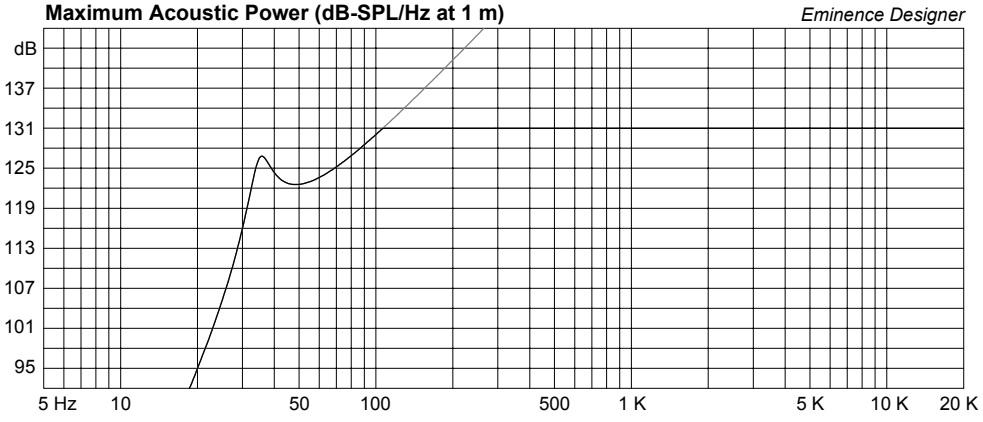
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1600 watts *Eminence Designer*

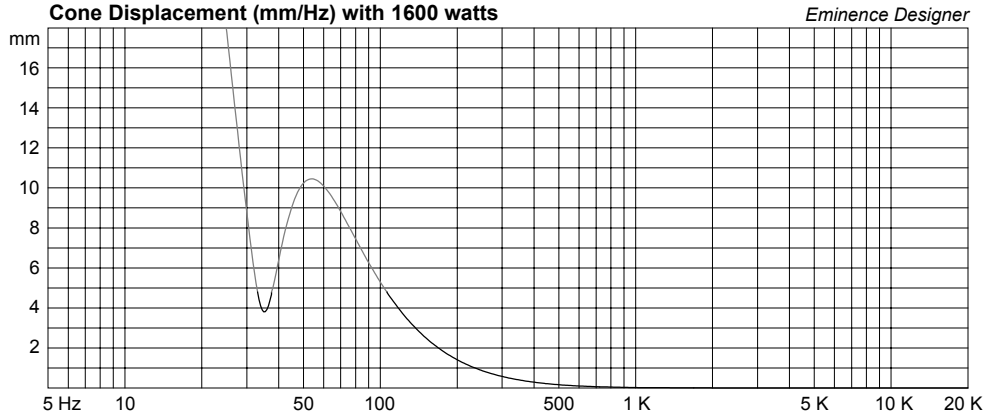


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



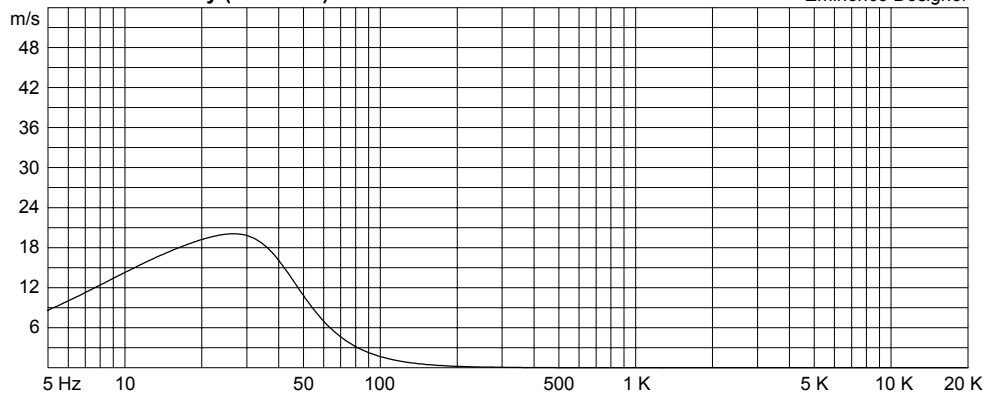
Cone Displacement (mm/Hz) with 1600 watts

Eminence Designer



Vent Air Velocity (m/sec/Hz) with 1600 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer