Specification

Nominal Basket Diameter	18”, 457.2mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	1250W
Music Program	2500W
Resonance	32Hz
Usable Frequency Range***	33Hz-300Hz
Sensitivity	95.8
Magnet Weight	109 oz.
Gap Height	0.375”, 9.53mm
Voice Coil Diameter	4”, 101.6mm

Thiele & Small Parameters

Resonant Frequency (fs)	32Hz
DC Resistance (Re)	5.07
Coil Inductance (Le)	1.59mH
Mechanical Q (Qms)	10.15
Electromagnetic Q (Qes)	.49
Total Q (Qts)	0.47
Compliance Equivalent Volume (Vas)	331.5 liters / 11.7 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	1159cc
Mechanical Compliance of Suspension (Cms)	0.18mm/N
BL Product (BL)	17.2 T-M
Diaphragm Mass inc. Airload (Mms)	143.17 grams
Efficiency Bandwidth Product (EBP)	64.9
Maximum Linear Excursion (Xmax)	10.0mm
Surface Area of Cone (Sd)	1159.0 cm2
Maximum Mechanical Limit (Xlim)	19.2mm

Mounting Information

Recommended Enclosure Volume	
Sealed	104.8-172.7 liters/3.7-6.1cu.ft.
Vented	118.9-303 liters/4.2-10.7cu.ft.
Overall Diameter	18”, 457.2mm
Baffle Hole Diameter	16.56”, 420.6mm
Front Sealing Gasket	fitted as standard
Rear Sealing Gasket	fitted as standard
Mounting Holes Diameter	0.28”, 7mm
Mounting Holes B.C.D.	17.25”, 438.2mm
Depth	8.15”, 207mm
Net Weight	27.4 lbs., 12.4 kg
Shipping Weight	30.9 lbs., 14 kg

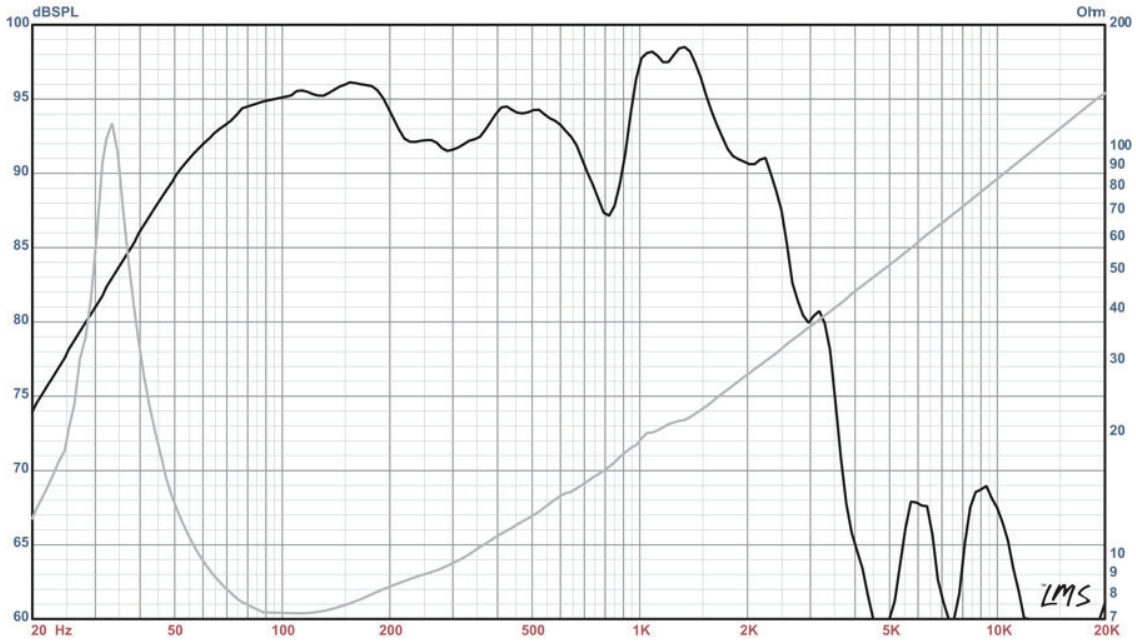
Materials of Construction

Copper voice coil
Kapton
Ferrite magnet
Extended core with Core Periphery Ventilation
Die-cast aluminum basket
Treated Paper-Kevlar
Cloth cone edge
Porous cloth top spider/ heatsink

EMINENCE®
The Art and Science of Sound

KILOMAX® PRO 18A Professional Series

Recommended for professional audio subwoofer and woofer applications in sealed and vented enclosures. Not for horn-loading or 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, non-temperature controlled environment.

*** The average output across the usable frequency range when applying 1W/1M into the nominal impedance. Ie: 2.83V/8ohms, 4V/16ohms.
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 | 2ft. X 2ft. 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)

KiloMaxPro 18A Super Small Vented Subwoofer

By Jerry McNutt, Eminence Speaker LLC
Limit to 1250 Watts; F3 of 51 Hz. Use a steep high pass filter set to 40 Hz to protect your woofer. Place ports symmetrically about woofer. Rock and Roll.

EMINENCE

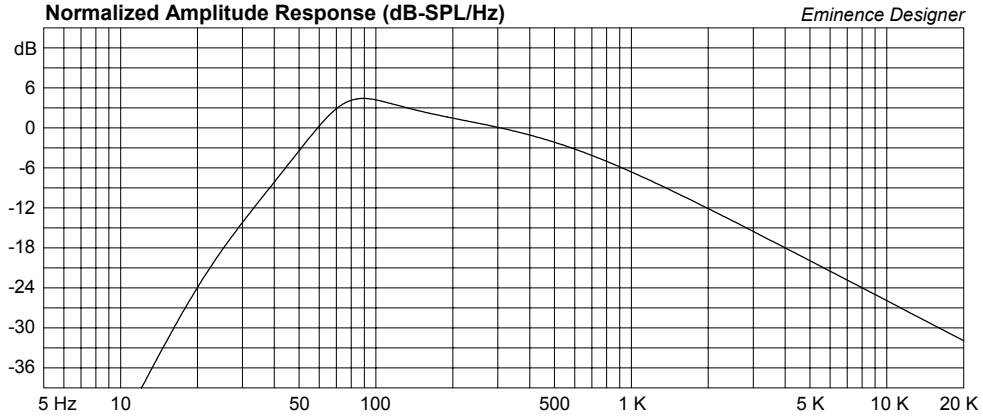
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 3.5 cu.ft
V(total) = 4.206 cu.ft
Fb = 48 Hz
QL = 7
F3 = 51.01 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 11.82 in

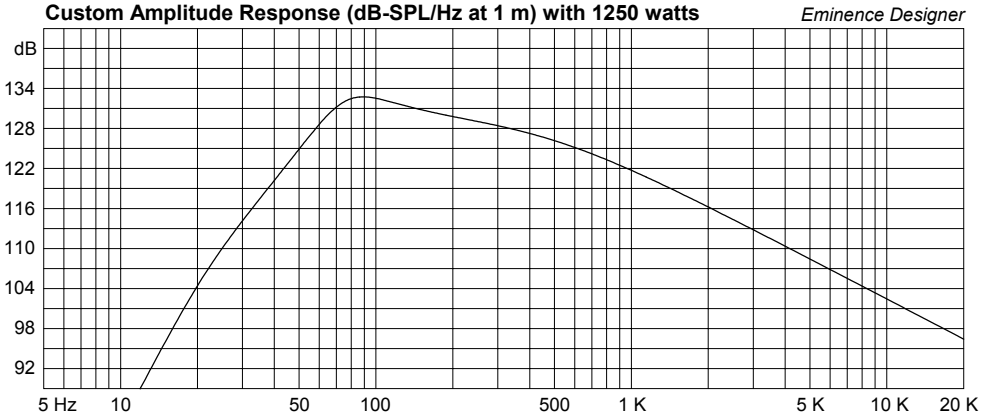
Driver Properties

--Description--
Name: KiloMax Pro 18A
Type: Standard one-way driver
Comment: Updated Nov 2008
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 31.73 Hz
Qms = 10.15
Vas = 11.71 cu.ft
Xmax = 0.394 in
Sd = 179.6 sq.in
Qes = 0.49
Re = 5.07 ohms
Le = 1.59 mH
Z = 8 ohms
Pe = 1250 watts

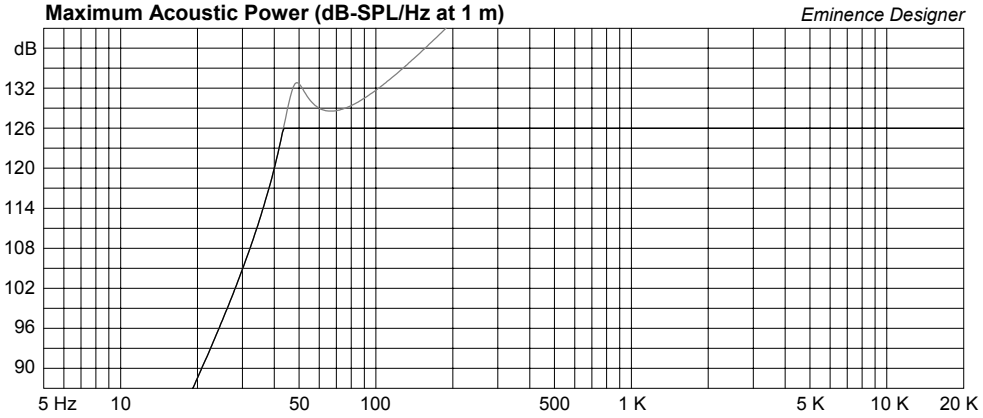
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1250 watts *Eminence Designer*

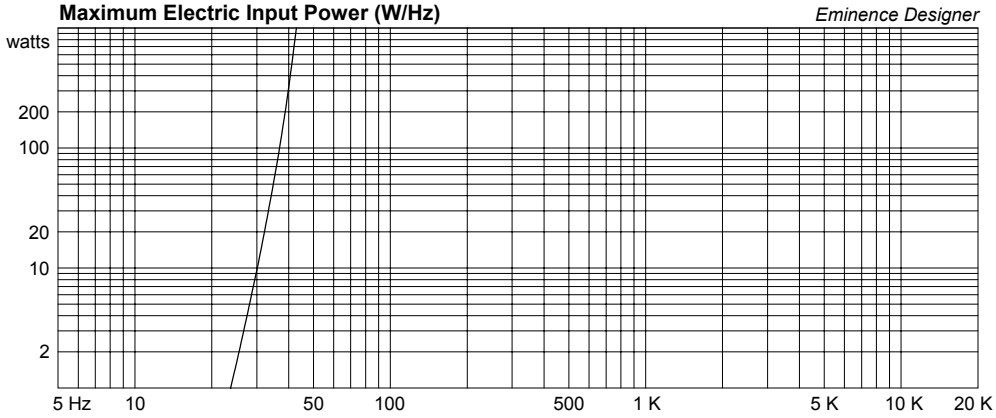


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



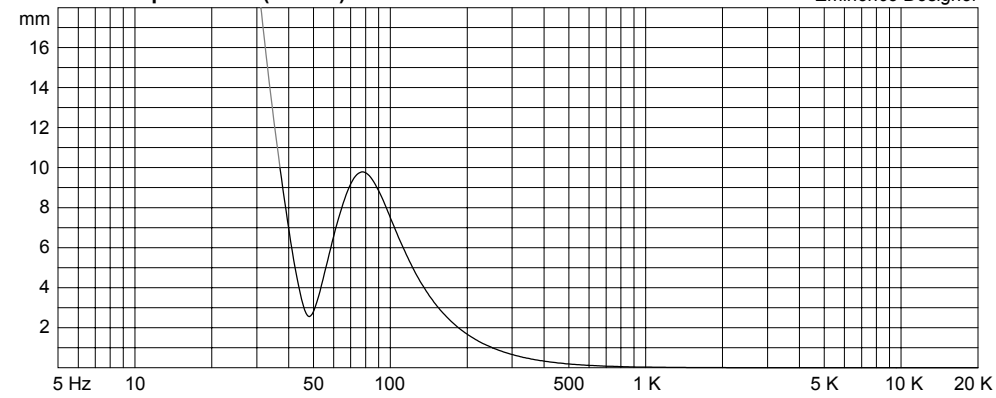
Maximum Electric Input Power (W/Hz)

Eminence Designer



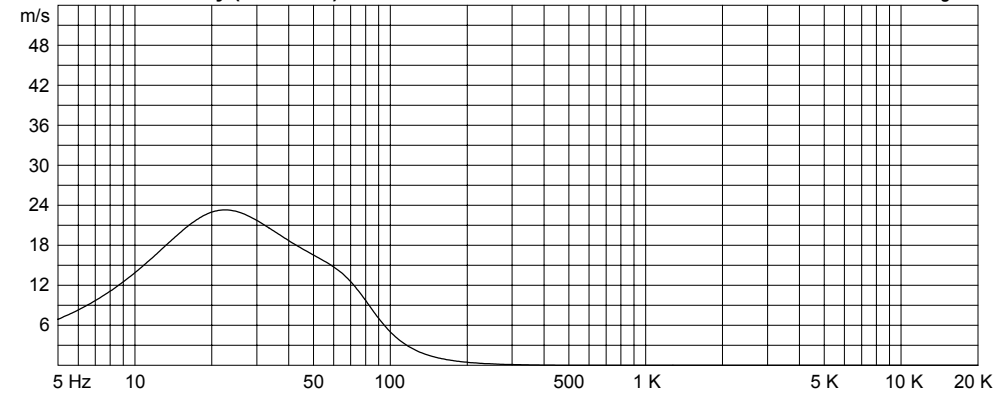
Cone Displacement (mm/Hz) with 1250 watts

Eminence Designer



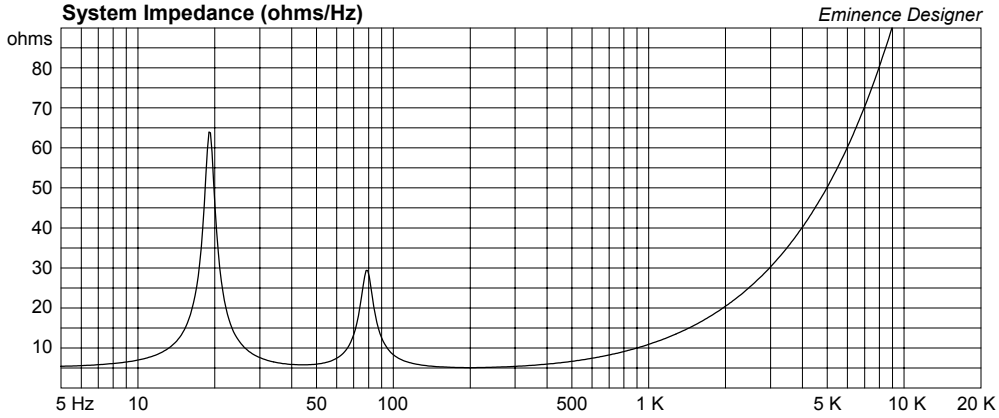
Vent Air Velocity (m/sec/Hz) with 1250 watts

Eminence Designer



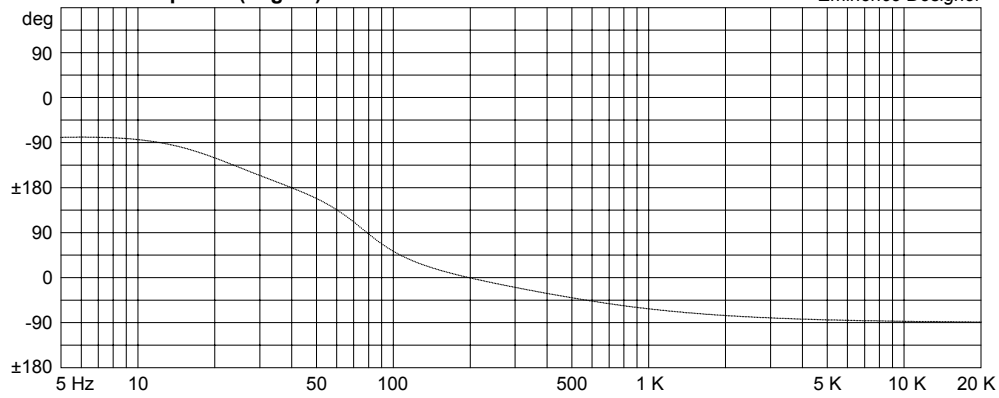
System Impedance (ohms/Hz)

Eminence Designer



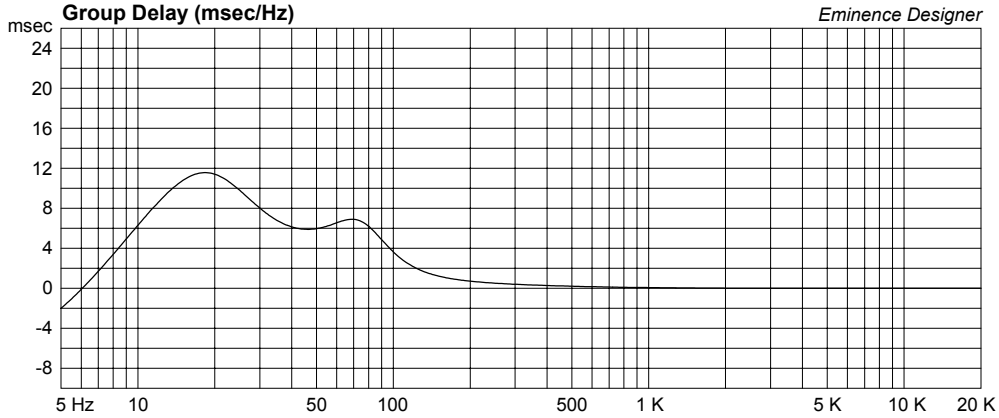
Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer



Kilomax Pro 18A Large Vented Box

By Jerry McNutt, Eminence Speaker LLC
Limit to 350 Watts, F3 @ 28Hz. Use High Pass Filter @ 20Hz.

EMINENCE

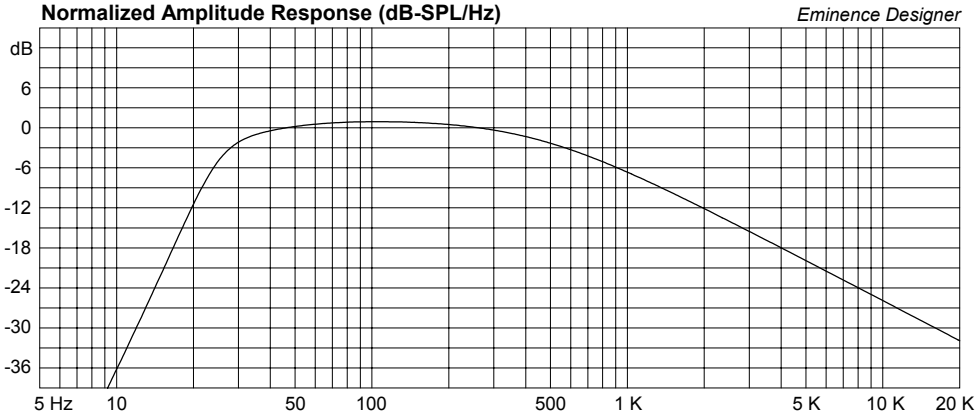
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 14.24 cu.ft
V(total) = 14.79 cu.ft
Fb = 28 Hz
QL = 7
F3 = 27.92 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 6.964 in

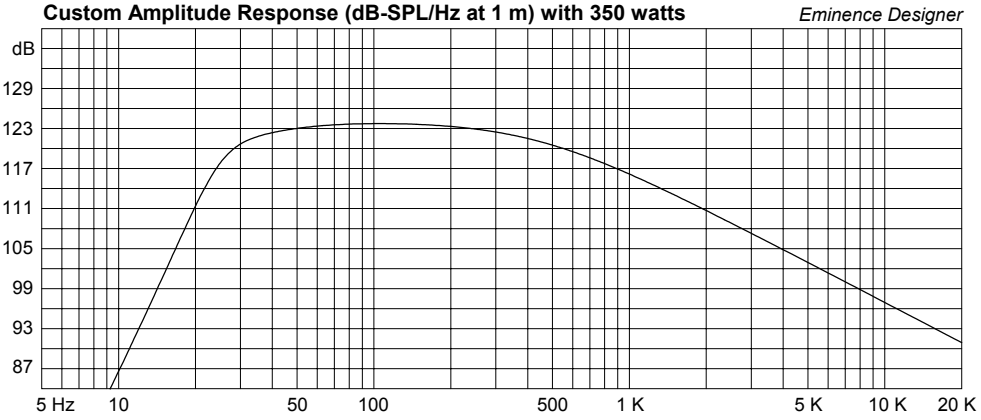
Driver Properties

--Description--
Name: KiloMax Pro 18A
Type: Standard one-way driver
Comment: Updated Nov 2008
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 31.73 Hz
Qms = 10.15
Vas = 11.71 cu.ft
Xmax = 0.394 in
Sd = 179.6 sq.in
Qes = 0.49
Re = 5.07 ohms
Le = 1.59 mH
Z = 8 ohms
Pe = 1250 watts

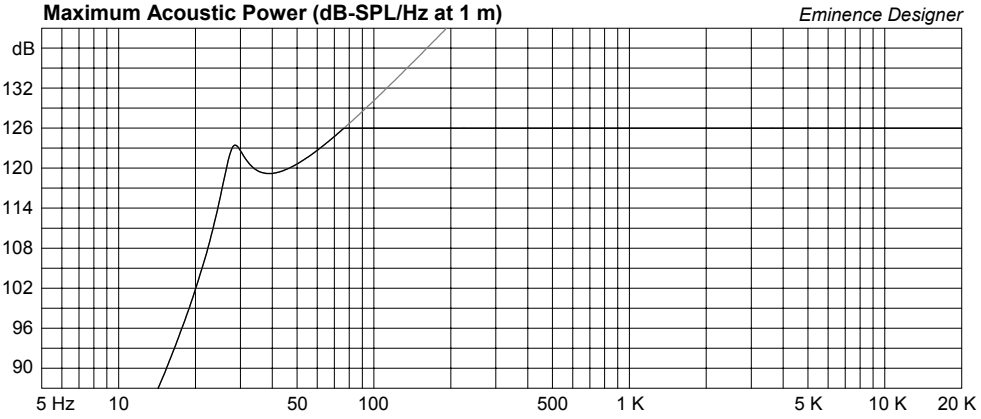
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 350 watts *Eminence Designer*

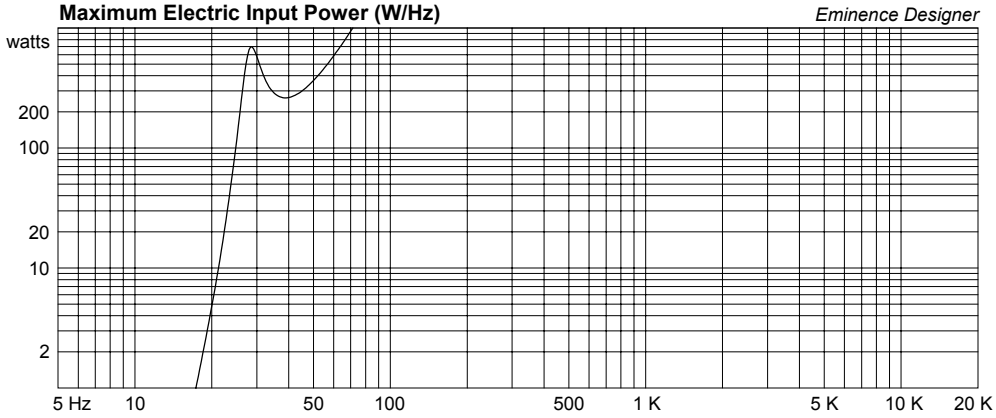


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



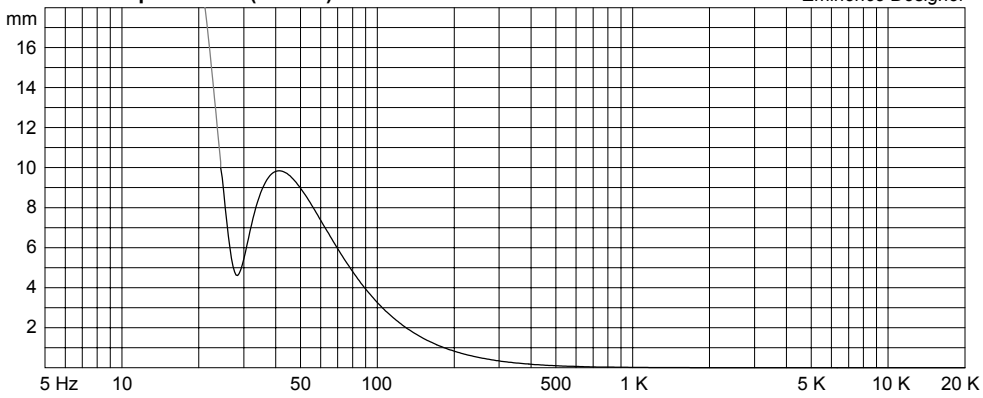
Maximum Electric Input Power (W/Hz)

Eminence Designer



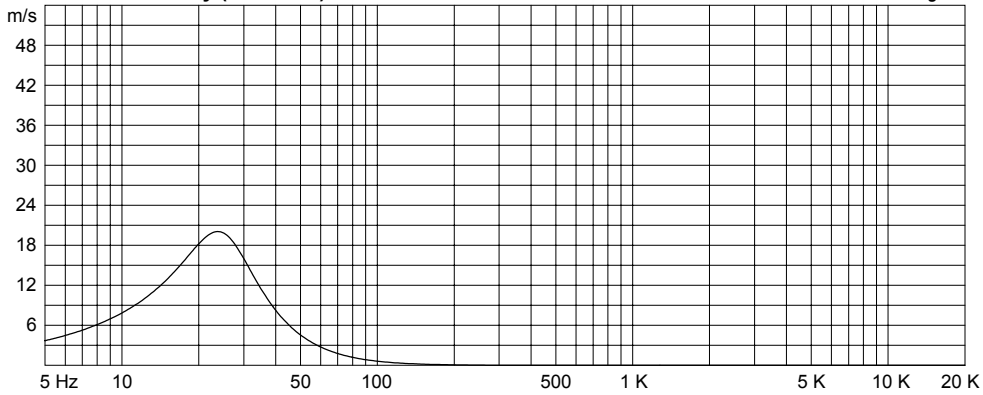
Cone Displacement (mm/Hz) with 350 watts

Eminence Designer



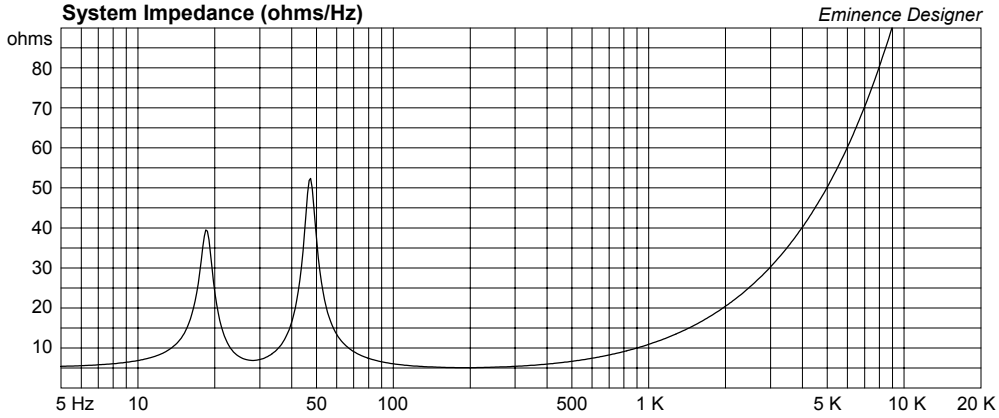
Vent Air Velocity (m/sec/Hz) with 350 watts

Eminence Designer



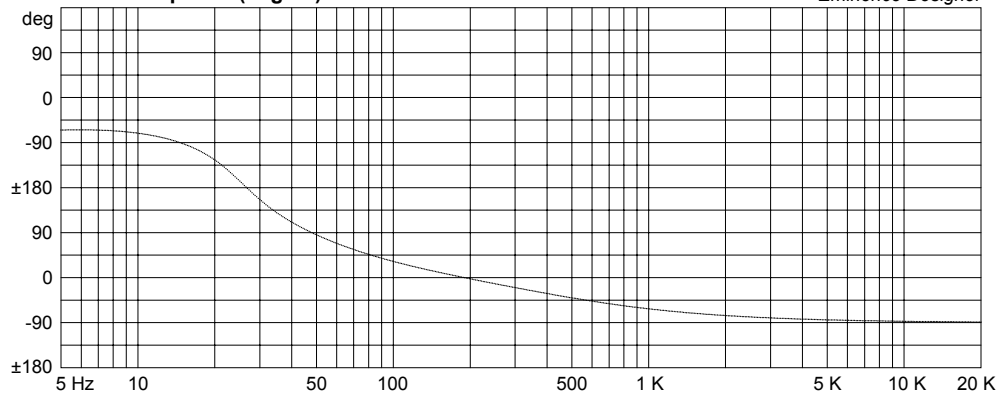
System Impedance (ohms/Hz)

Eminence Designer



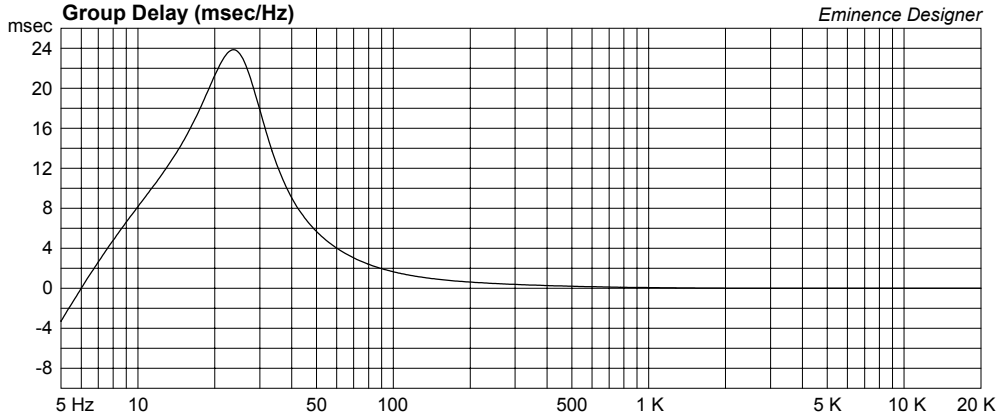
Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer



KiloMaxPro 18A Small Vented Subwoofer

By Jerry McNutt, Eminence Speaker LLC
Limit to 1150 Watts; F3 of 47 Hz. Use a steep high pass filter set to 40 Hz to protect your woofer. Place ports symmetrically about woofer.

EMINENCE

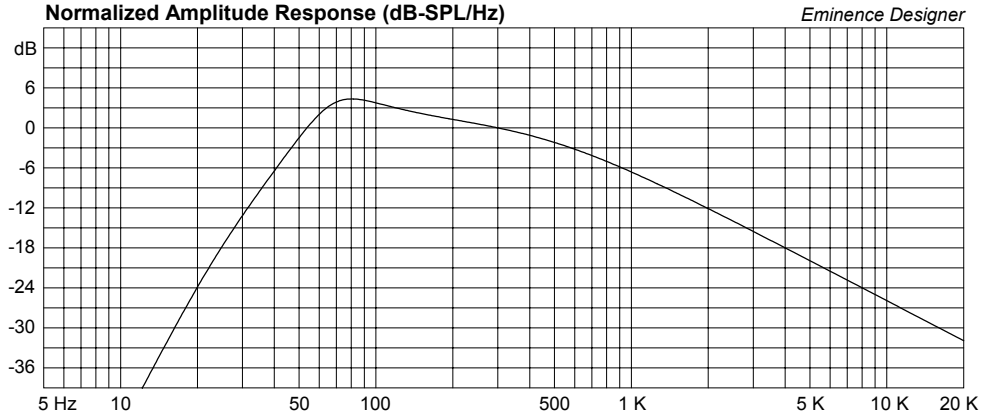
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 4.556 cu.ft
V(total) = 5.129 cu.ft
Fb = 48 Hz
QL = 7
F3 = 46.61 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 7.766 in

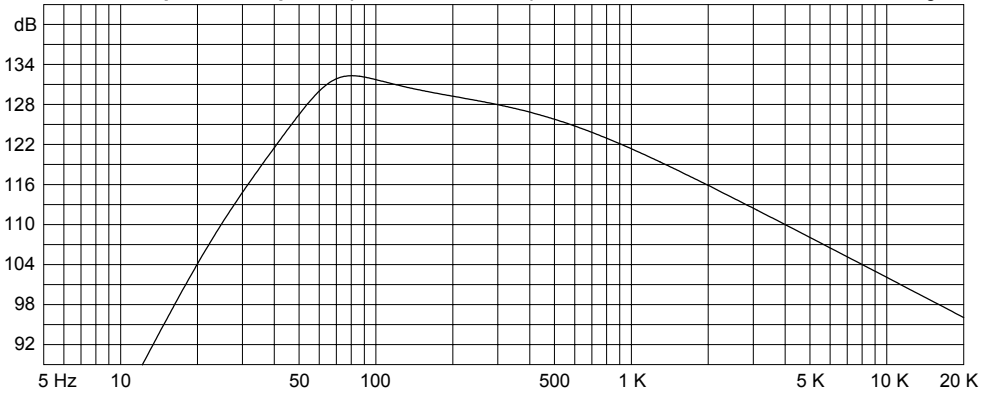
Driver Properties

--Description--
Name: KiloMax Pro 18A
Type: Standard one-way driver
Comment: Updated Nov 2008
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 31.73 Hz
Qms = 10.15
Vas = 11.71 cu.ft
Xmax = 0.394 in
Sd = 179.6 sq.in
Qes = 0.49
Re = 5.07 ohms
Le = 1.59 mH
Z = 8 ohms
Pe = 1250 watts

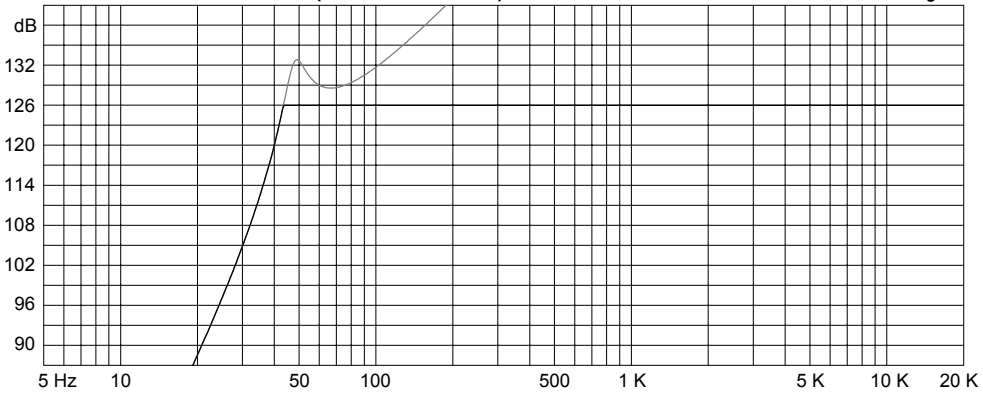
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1150 watts *Eminence Designer*

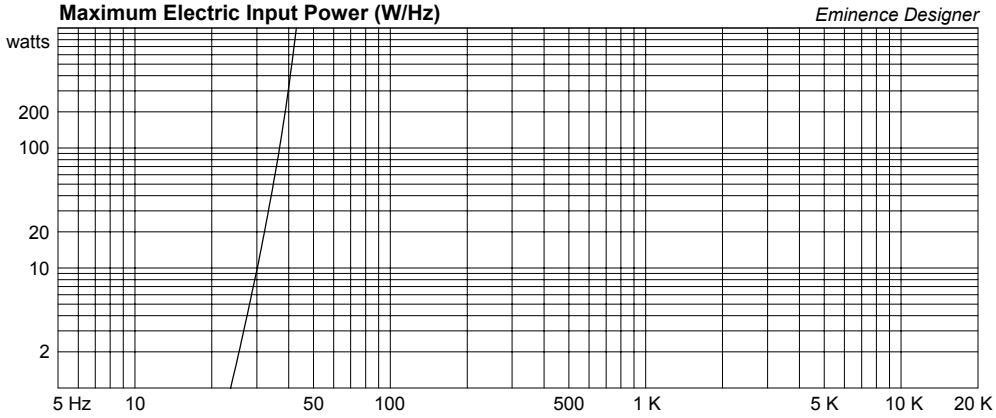


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



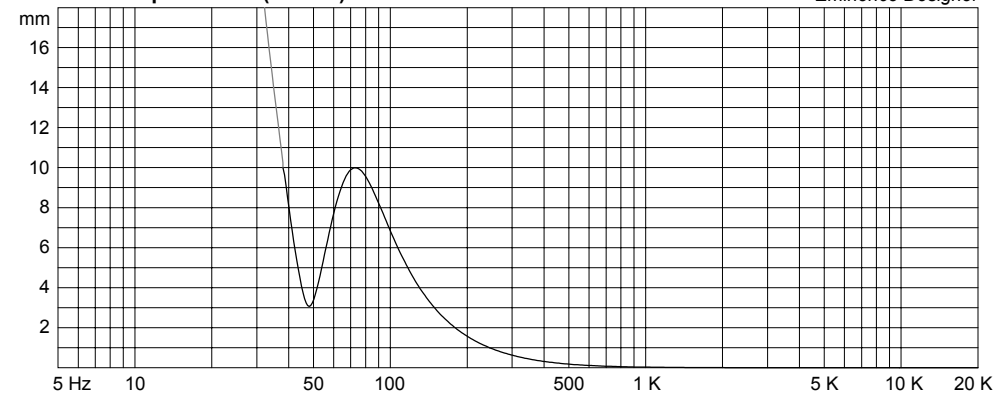
Maximum Electric Input Power (W/Hz)

Eminence Designer



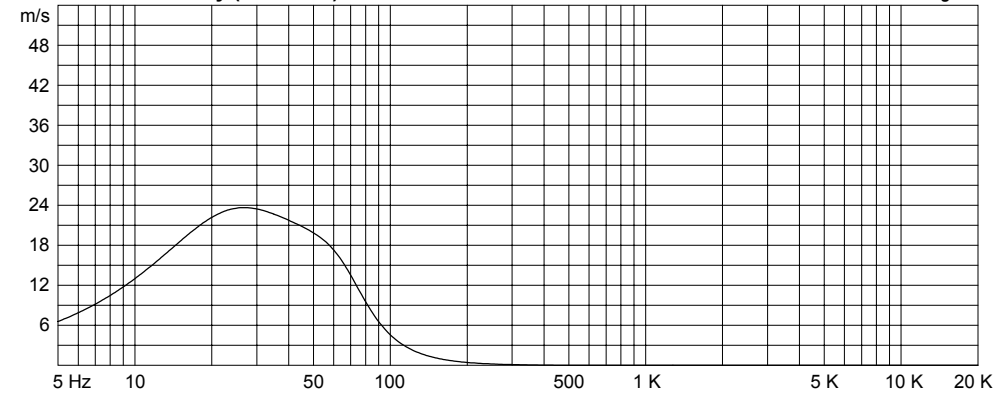
Cone Displacement (mm/Hz) with 1150 watts

Eminence Designer



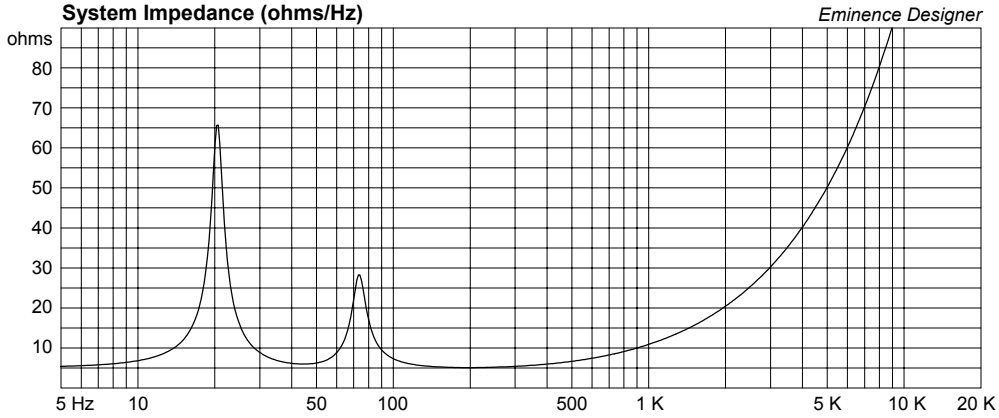
Vent Air Velocity (m/sec/Hz) with 1150 watts

Eminence Designer



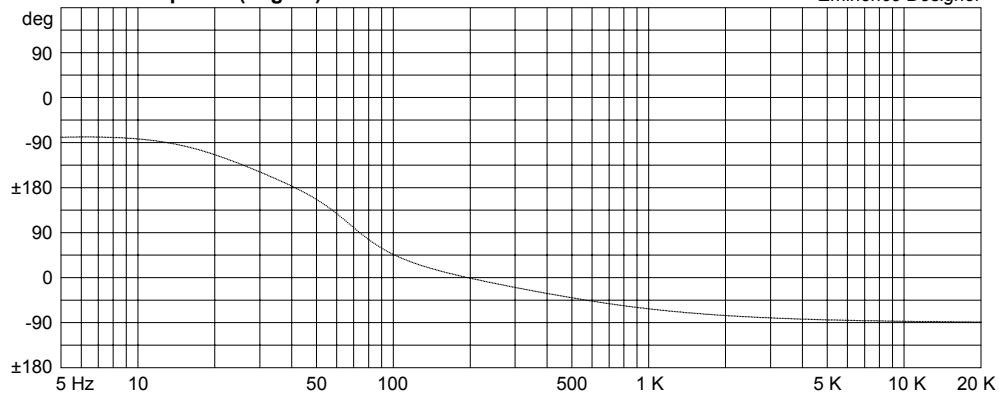
System Impedance (ohms/Hz)

Eminence Designer



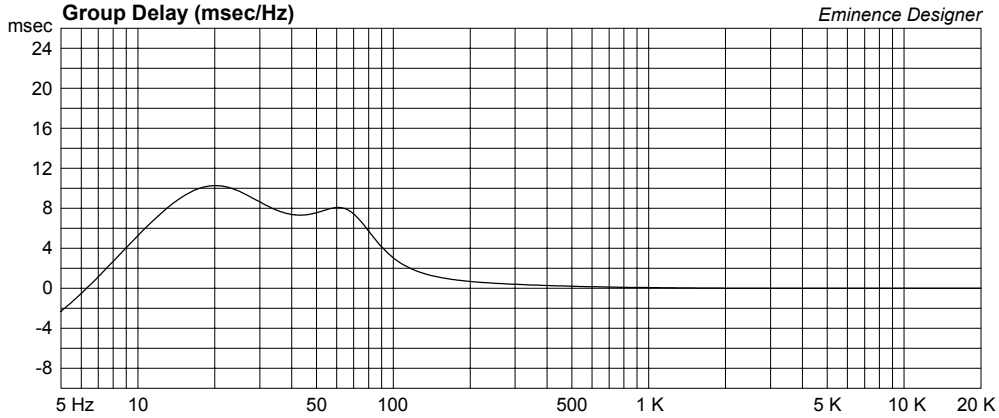
Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer



KiloMaxPro 18A Small Sealed Design

By Jerry McNutt, Eminence Speaker LLC
Limit to 400 Watts; F3 of 60 Hz with no EQ.
Can be Equalised for use below 60 Hz.

EMINENCE

Box Properties

--Description--
Name:
Type: Closed Box
Shape: Prism, square (optimum)
--Box Parameters--

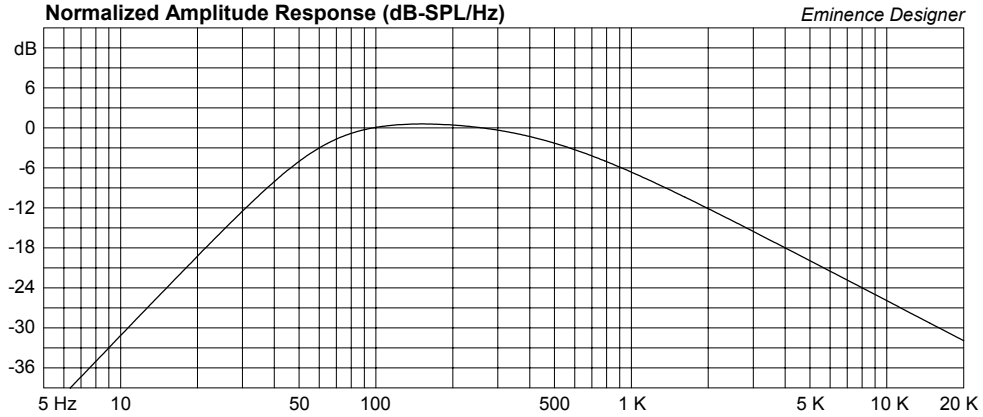
Vb =	3.8 cu.ft
V(total) =	3.8 cu.ft
Qtc =	0.711
QL =	12.63
F3 =	59.95 Hz
Fill =	heavy

Driver Properties

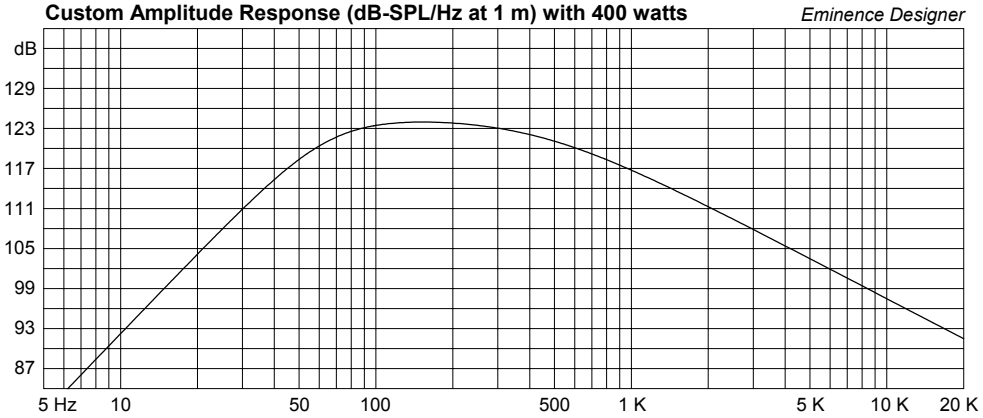
--Description--
Name: KiloMax Pro 18A
Type: Standard one-way driver
Comment: Updated Nov 2008
--Configuration--
No. of Drivers = 1
--Driver Parameters--

Fs =	31.73 Hz
Qms =	10.15
Vas =	11.71 cu.ft
Xmax =	0.394 in
Sd =	179.6 sq.in
Qes =	0.49
Re =	5.07 ohms
Le =	1.59 mH
Z =	8 ohms
Pe =	1250 watts

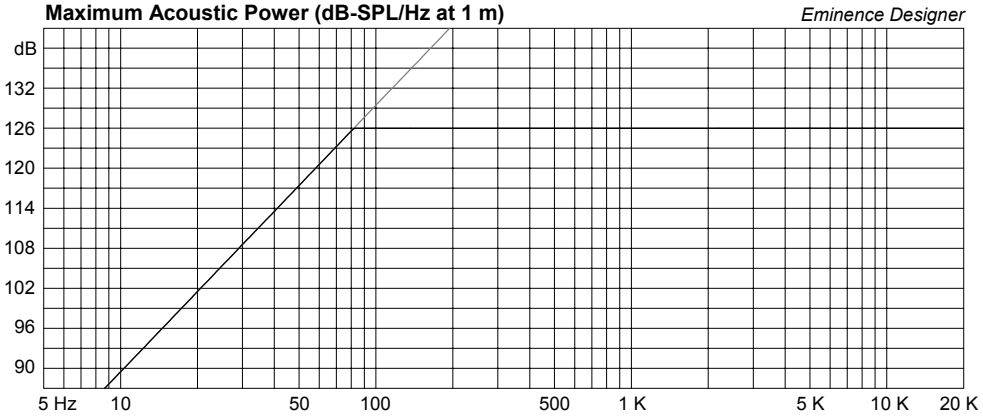
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



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

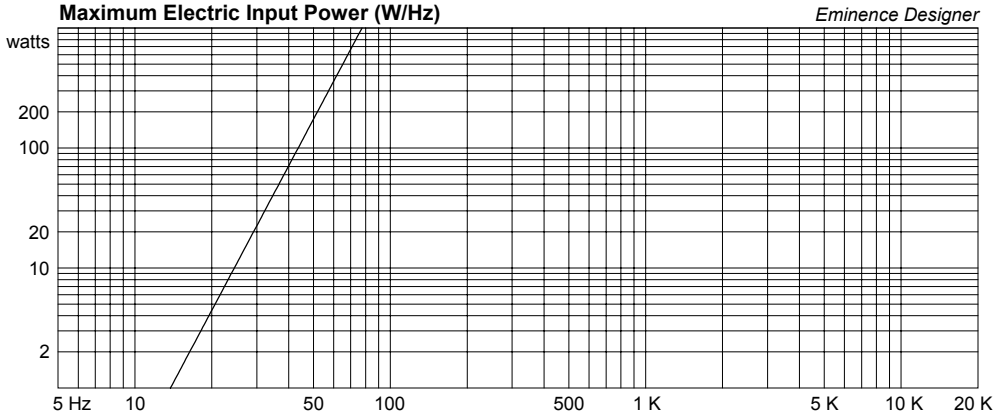


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



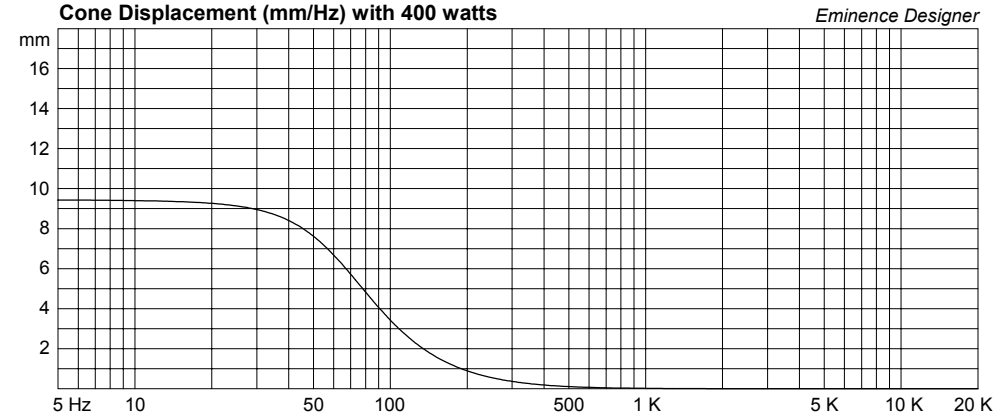
Maximum Electric Input Power (W/Hz)

Eminence Designer



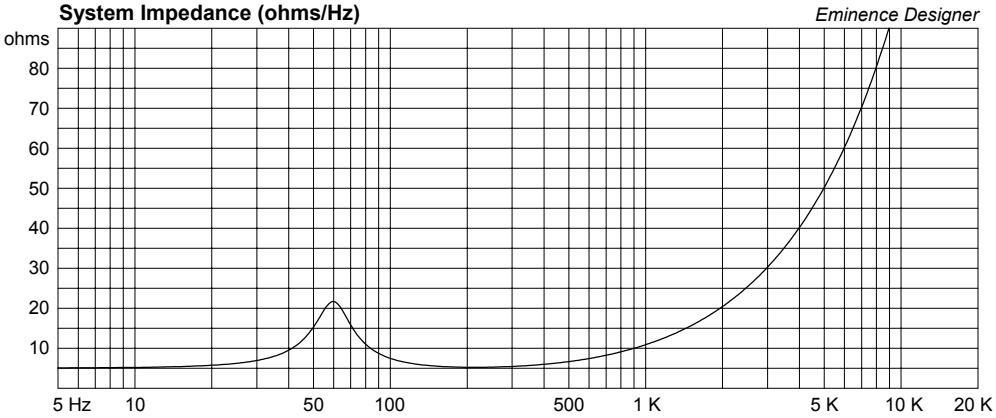
Cone Displacement (mm/Hz) with 400 watts

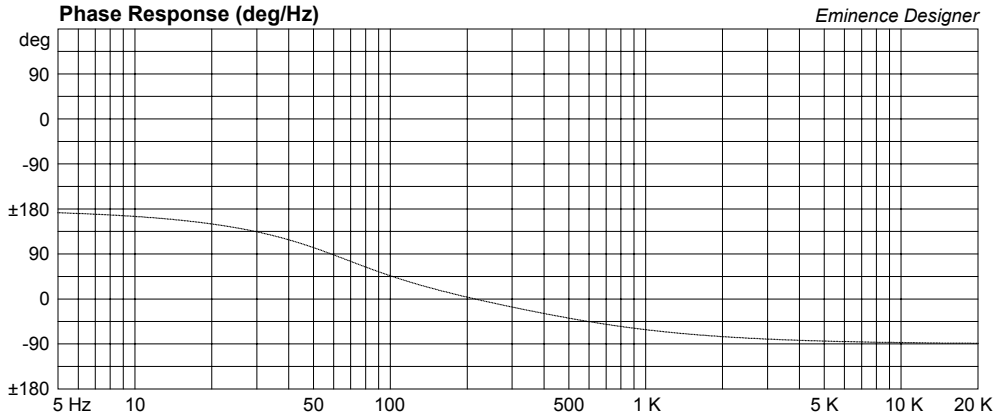
Eminence Designer

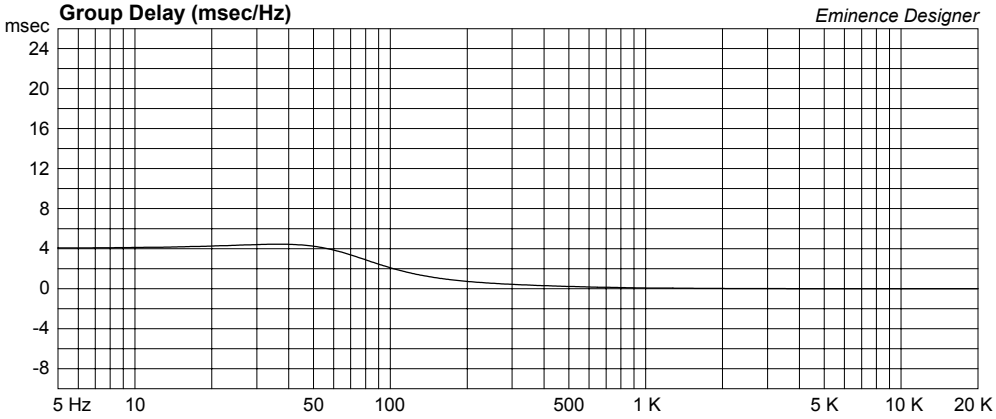


System Impedance (ohms/Hz)

Eminence Designer




Phase Response (deg/Hz)
Eminence Designer
deg
90
0
-90
±180
90
0
-90
±180
5 Hz
10
50
100
500
1 K
5 K
10 K
20 K


Group Delay (msec/Hz)
Eminence Designer
msec
24
20
16
12
8
4
0
-4
-8
5 Hz
10
50
100
500
1 K
5 K
10 K
20 K

KiloMaxPro 18A Med Vented Subwoofer

By Jerry McNutt, Eminence Speaker LLC
Limit to 700 Watts; F3 of 37 Hz. Use a steep high pass filter set to 35 Hz to protect your woofer. Place ports symmetrically about woofer.

EMINENCE

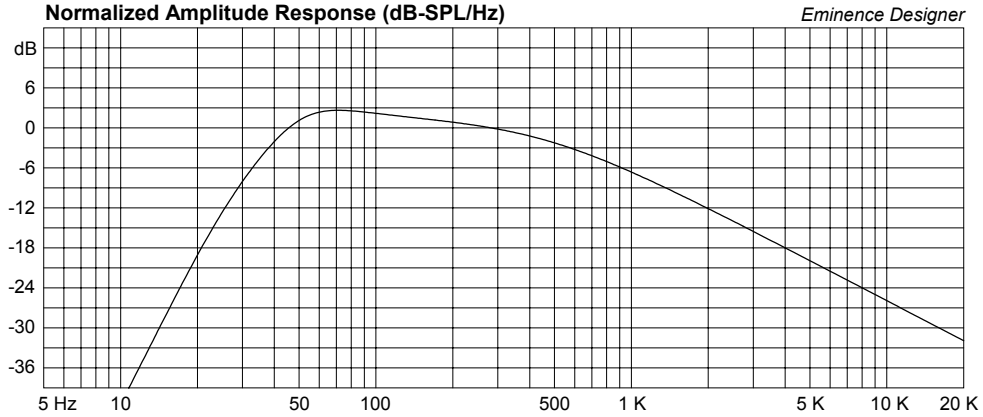
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 7 cu.ft
V(total) = 7.59 cu.ft
Fb = 38 Hz
QL = 7
F3 = 37.96 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 8.282 in

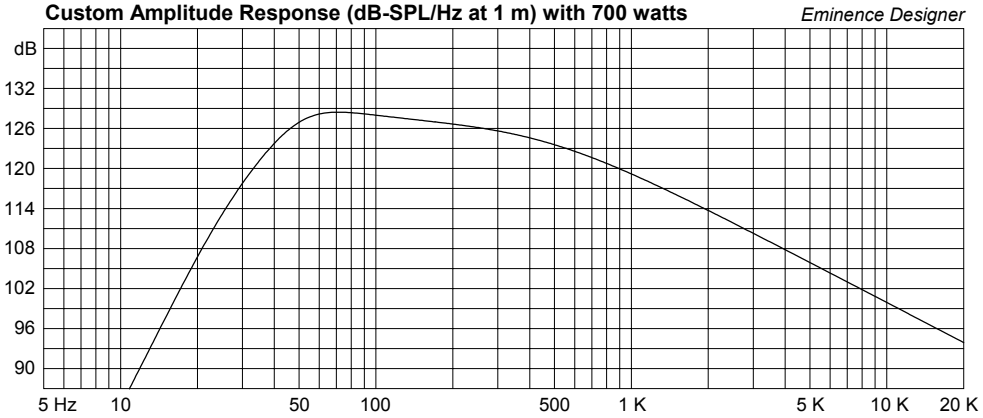
Driver Properties

--Description--
Name: KiloMax Pro 18A
Type: Standard one-way driver
Comment: Updated Nov 2008
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 31.73 Hz
Qms = 10.15
Vas = 11.71 cu.ft
Xmax = 0.394 in
Sd = 179.6 sq.in
Qes = 0.49
Re = 5.07 ohms
Le = 1.59 mH
Z = 8 ohms
Pe = 1250 watts

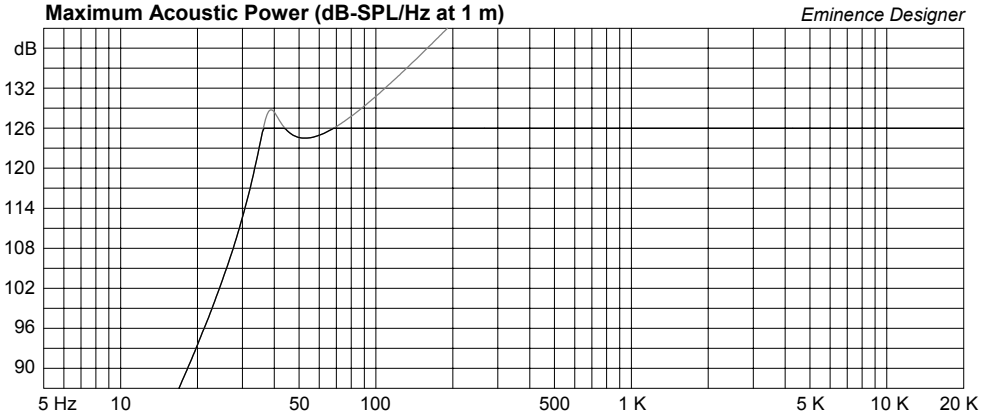
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 700 watts *Eminence Designer*



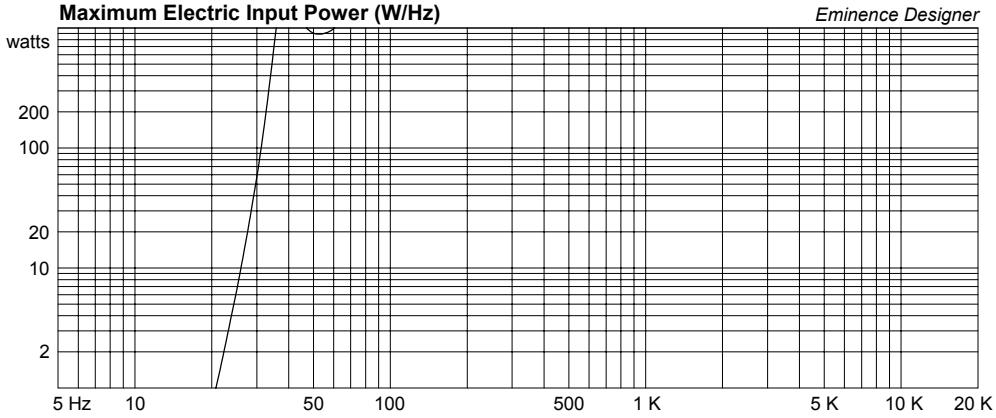
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



File: KiloMaxPro18AMedVented700.bb6

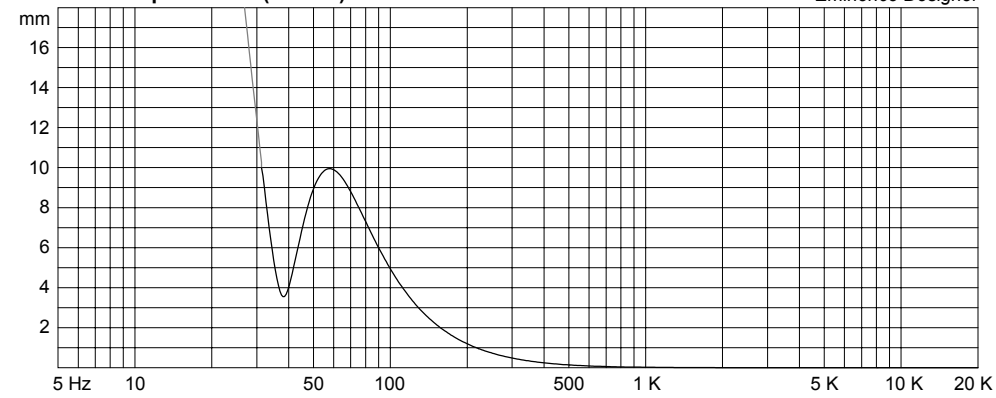
Maximum Electric Input Power (W/Hz)

Eminence Designer



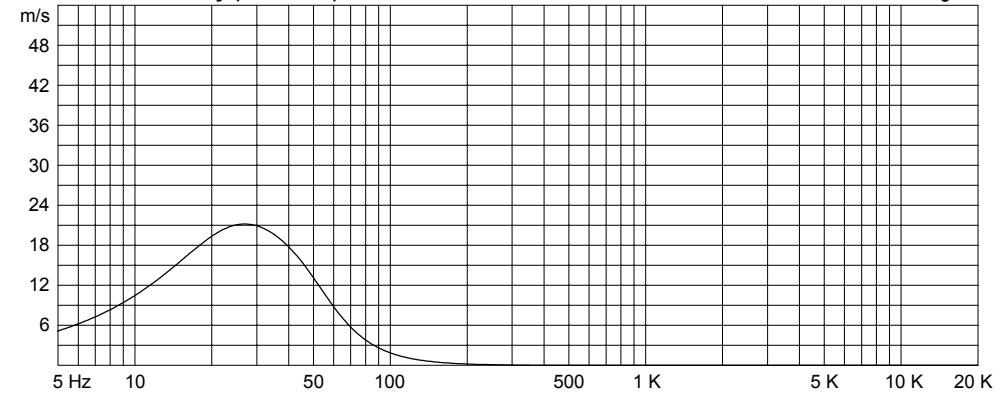
Cone Displacement (mm/Hz) with 700 watts

Eminence Designer



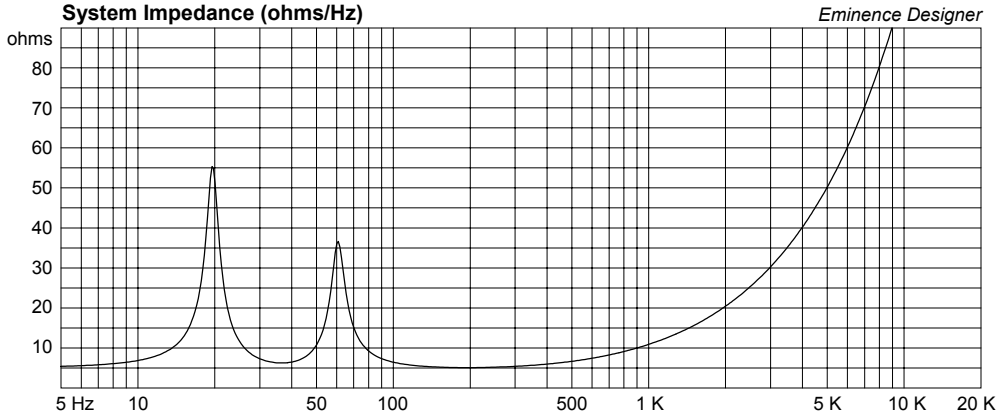
Vent Air Velocity (m/sec/Hz) with 700 watts

Eminence Designer



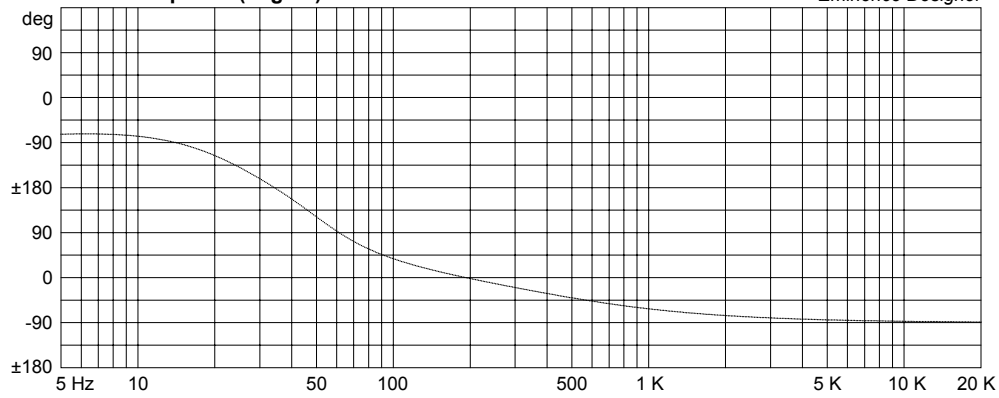
System Impedance (ohms/Hz)

Eminence Designer



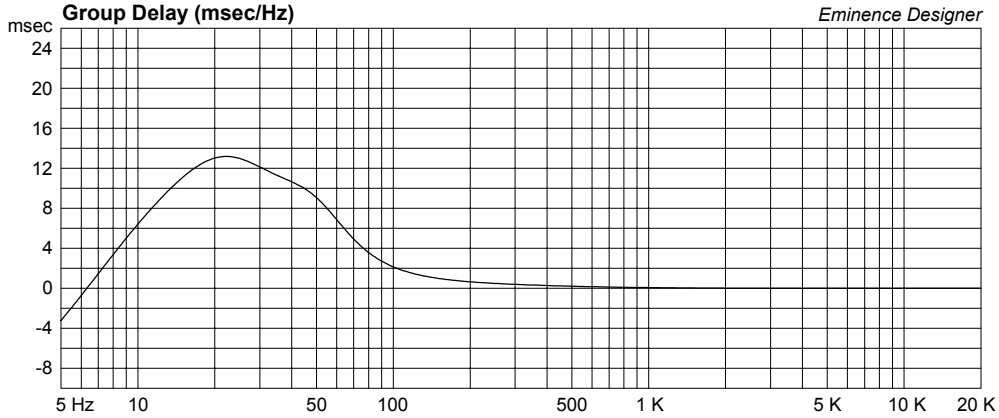
Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer



KiloMaxPro 18A Large Vented Sub, Lower F3

By Jerry McNutt, Eminence Speaker LLC
Limit to 650 Watts; F3 of 36 Hz. Use a steep high pass filter set to 30 Hz to protect your woofer. Place ports symmetrically about woofer.

EMINENCE

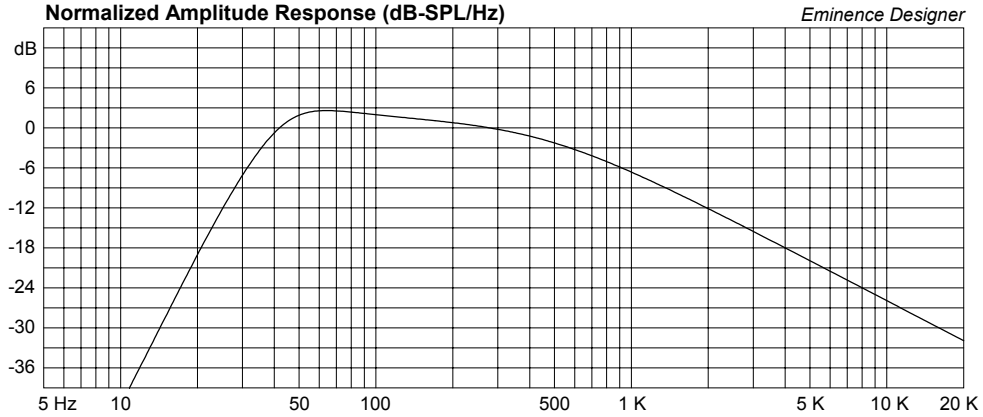
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 8.5 cu.ft
V(total) = 9.009 cu.ft
Fb = 38 Hz
QL = 7
F3 = 35.59 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 5.822 in

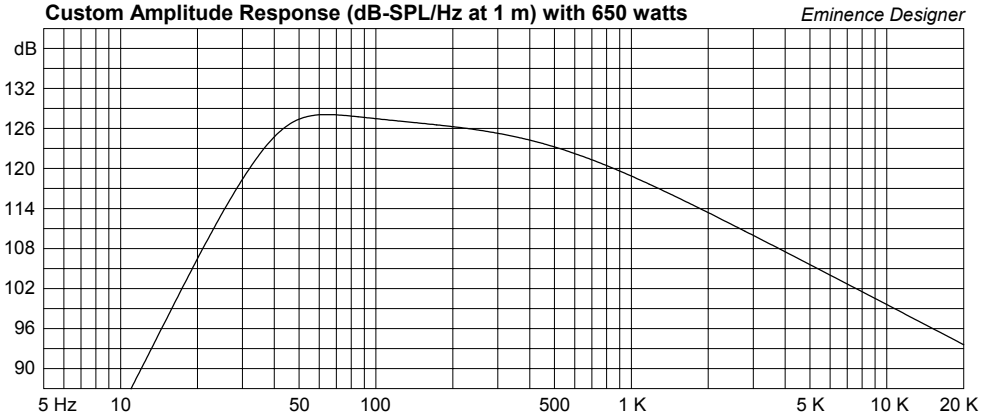
Driver Properties

--Description--
Name: KiloMax Pro 18A
Type: Standard one-way driver
Comment: Updated Nov 2008
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 31.73 Hz
Qms = 10.15
Vas = 11.71 cu.ft
Xmax = 0.394 in
Sd = 179.6 sq.in
Qes = 0.49
Re = 5.07 ohms
Le = 1.59 mH
Z = 8 ohms
Pe = 1250 watts

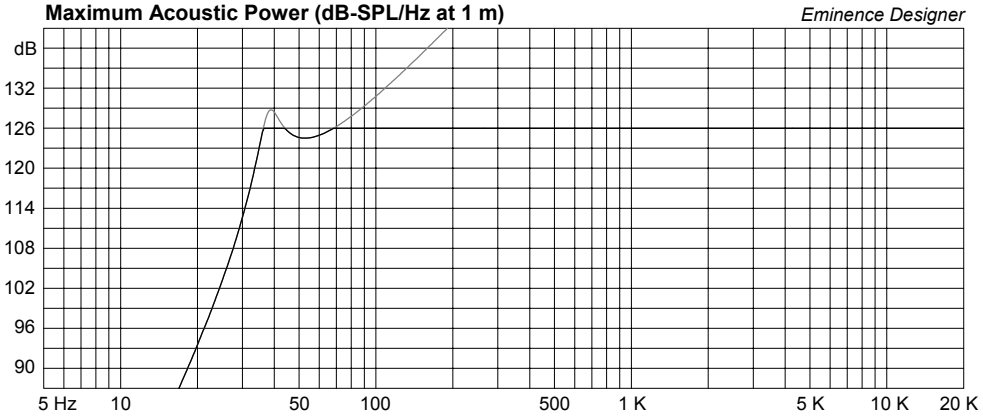
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



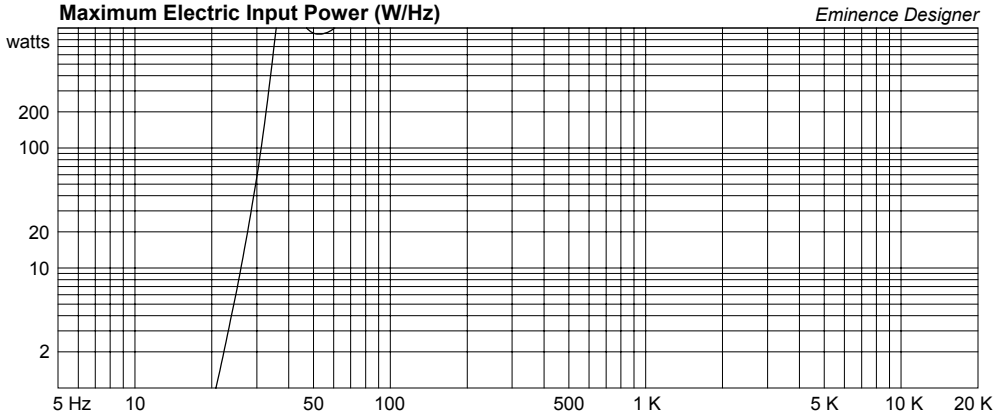
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 650 watts *Eminence Designer*



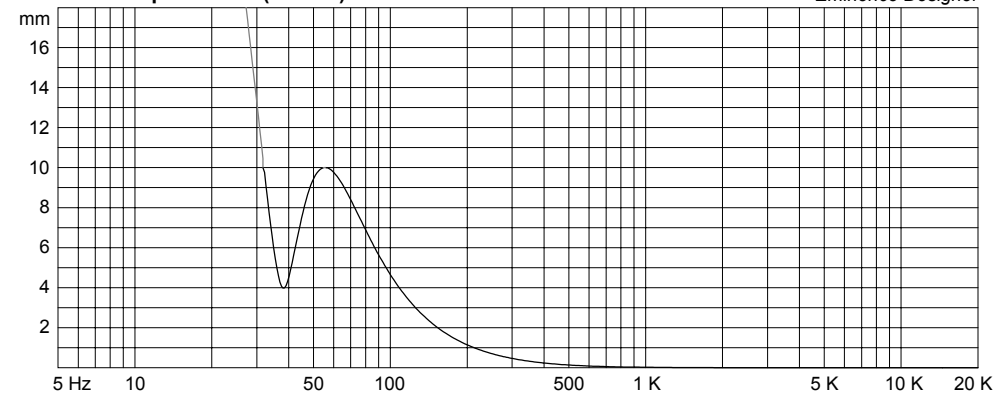
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



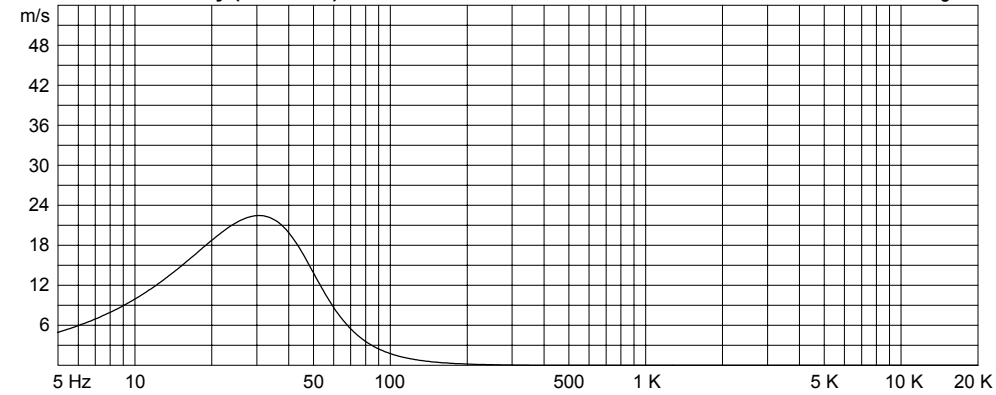
Maximum Electric Input Power (W/Hz) *Eminence Designer*



Cone Displacement (mm/Hz) with 650 watts *Eminence Designer*

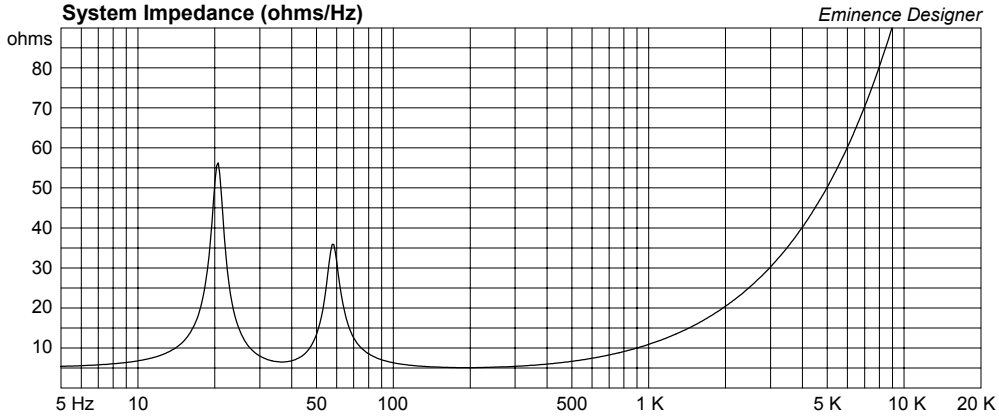


Vent Air Velocity (m/sec/Hz) with 650 watts *Eminence Designer*



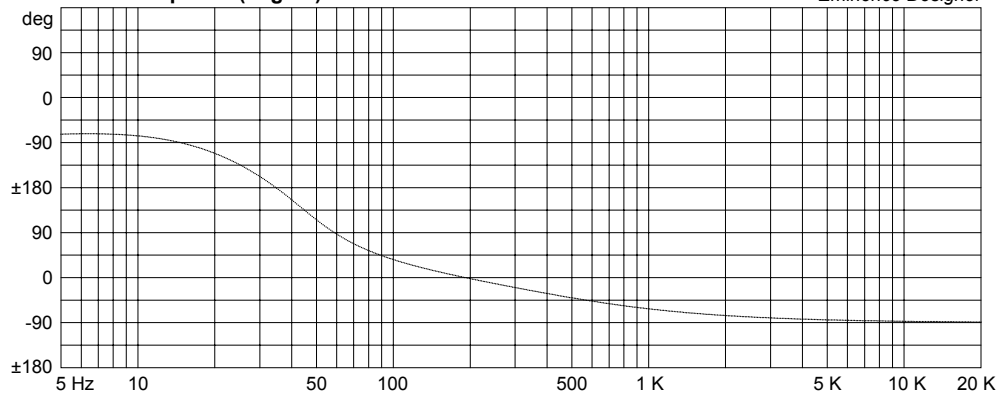
System Impedance (ohms/Hz)

Eminence Designer



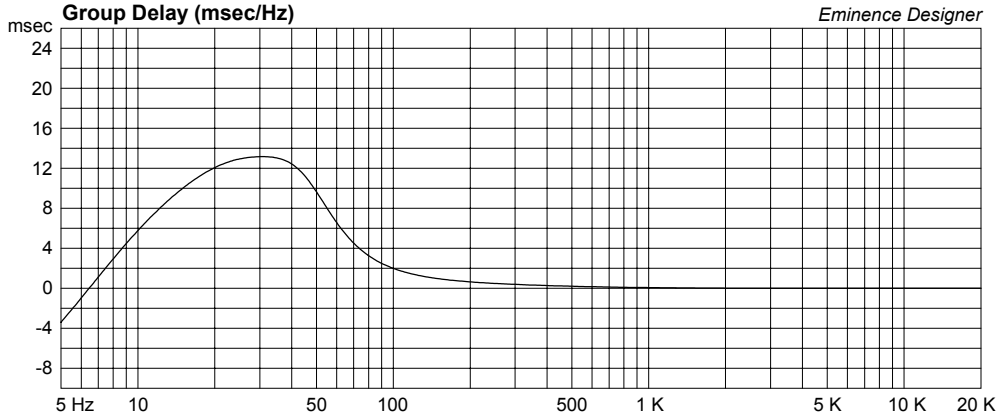
Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer



KiloMaxPro 18A Large Sealed Design

By Jerry McNutt, Eminence Speaker LLC
Limit to 250 Watts; F3 of 58 Hz with no EQ. Slow Roll-off below F3.
Can be Equalised for use below 58 Hz.

EMINENCE

Box Properties

--Description--
Name:
Type: Closed Box
Shape: Prism, square (optimum)
--Box Parameters--

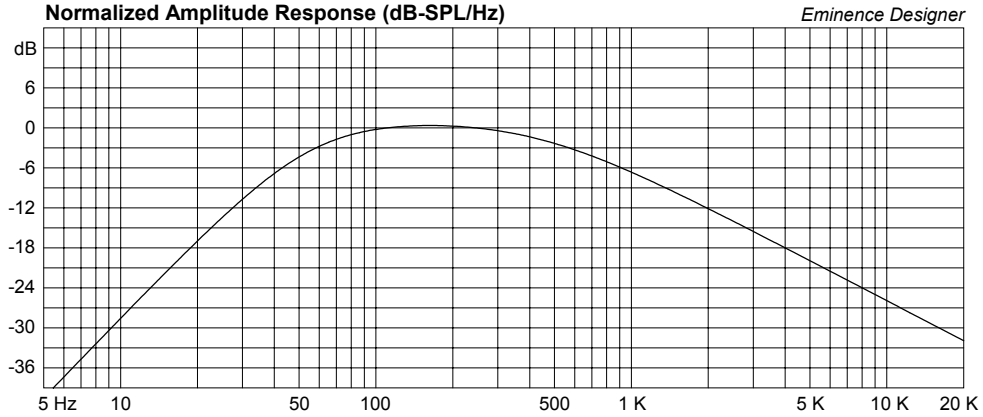
Vb =	6 cu.ft
V(total) =	6 cu.ft
Qtc =	0.628
QL =	12.63
F3 =	58.16 Hz
Fill =	heavy

Driver Properties

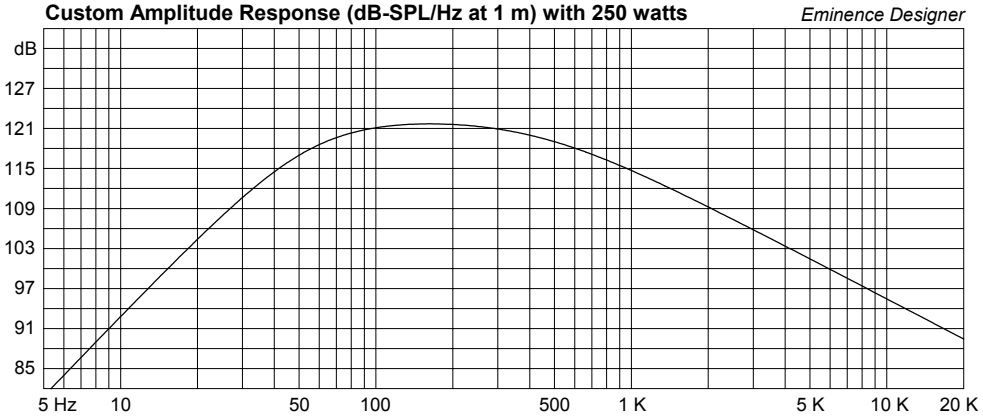
--Description--
Name: KiloMax Pro 18A
Type: Standard one-way driver
Comment: Updated Nov 2008
--Configuration--
No. of Drivers = 1
--Driver Parameters--

Fs =	31.73 Hz
Qms =	10.15
Vas =	11.71 cu.ft
Xmax =	0.394 in
Sd =	179.6 sq.in
Qes =	0.49
Re =	5.07 ohms
Le =	1.59 mH
Z =	8 ohms
Pe =	1250 watts

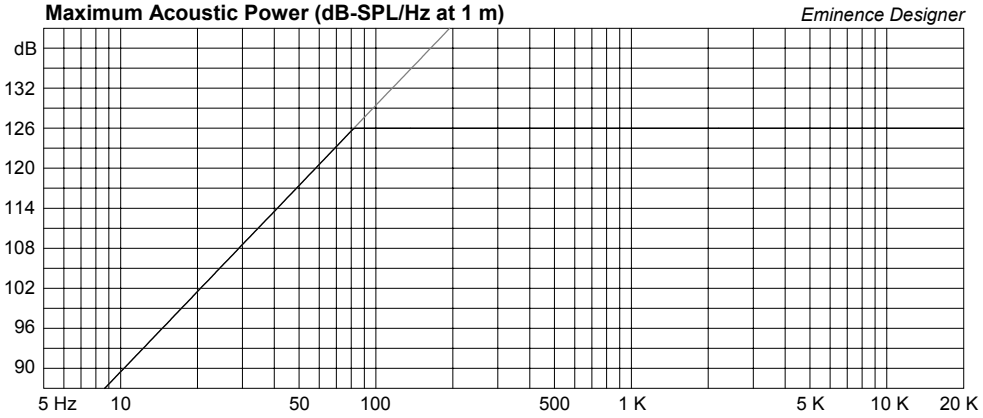
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



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

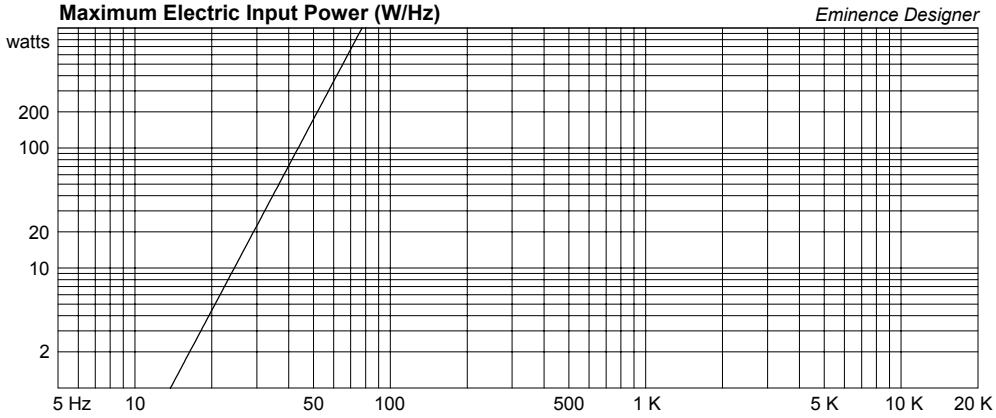


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



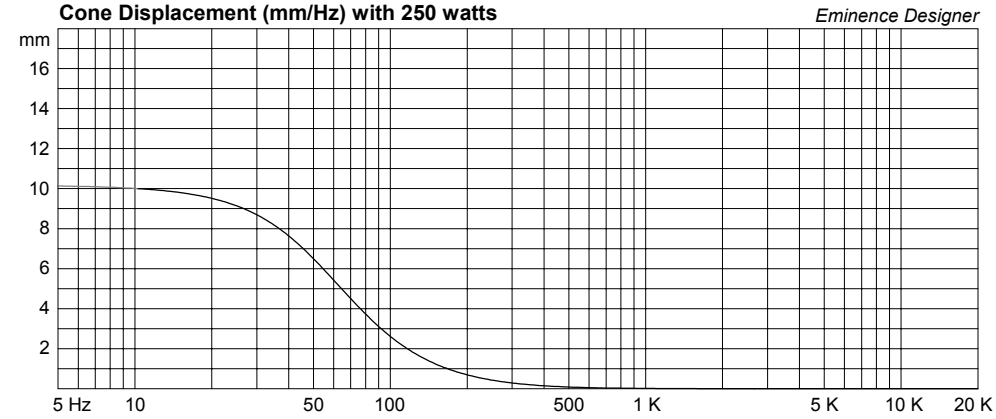
Maximum Electric Input Power (W/Hz)

Eminence Designer



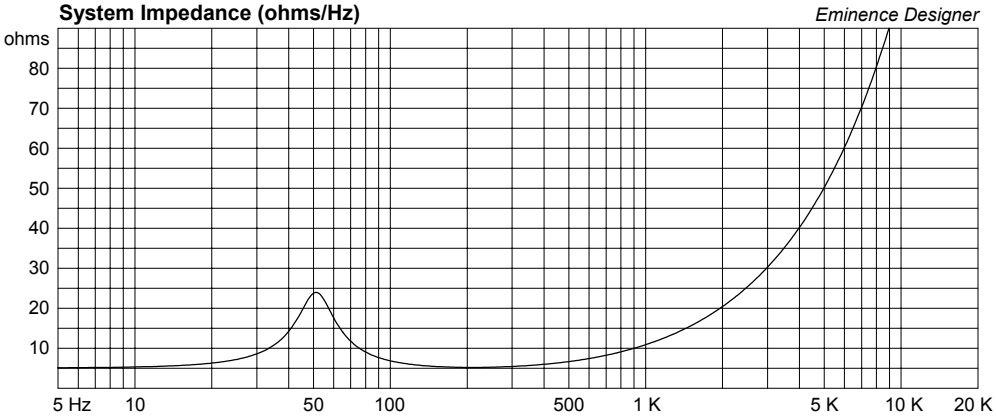
Cone Displacement (mm/Hz) with 250 watts

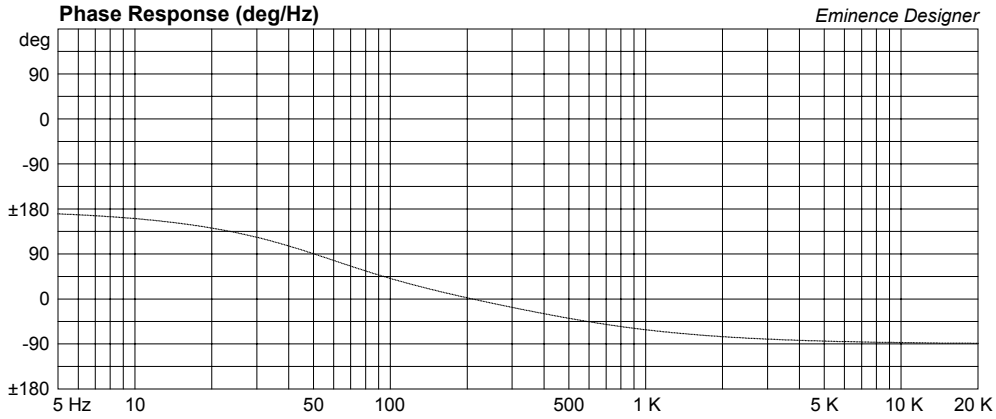
Eminence Designer

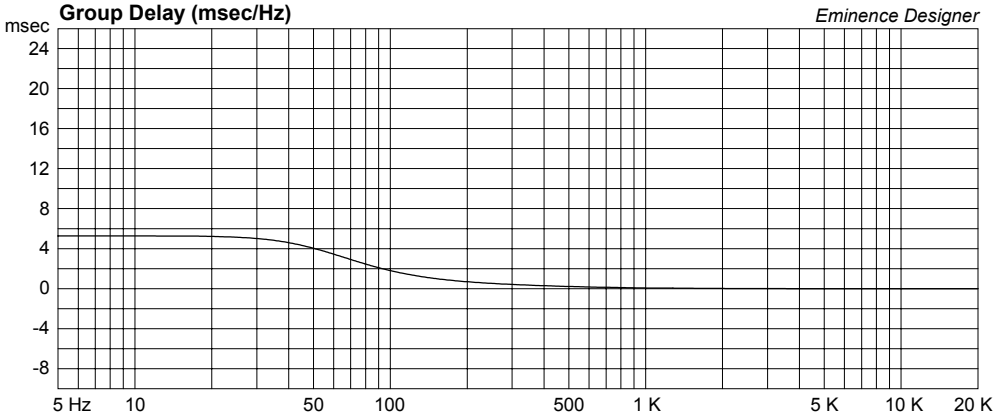


System Impedance (ohms/Hz)

Eminence Designer




Phase Response (deg/Hz)
Eminence Designer
deg
90
0
-90
±180
90
0
-90
±180
5 Hz
10
50
100
500
1 K
5 K
10 K
20 K


Group Delay (msec/Hz)
Eminence Designer
msec
24
20
16
12
8
4
0
-4
-8
5 Hz
10
50
100
500
1 K
5 K
10 K
20 K

KiloMaxPro 18A Small Classic Double 18

By Jerry McNutt, Eminence Speaker LLC
Limit to 2000 Watts; F3 of 47 Hz. Use a steep high pass filter set to 40 Hz to protect your woofer. Place ports symmetrically about woofer.

EMINENCE

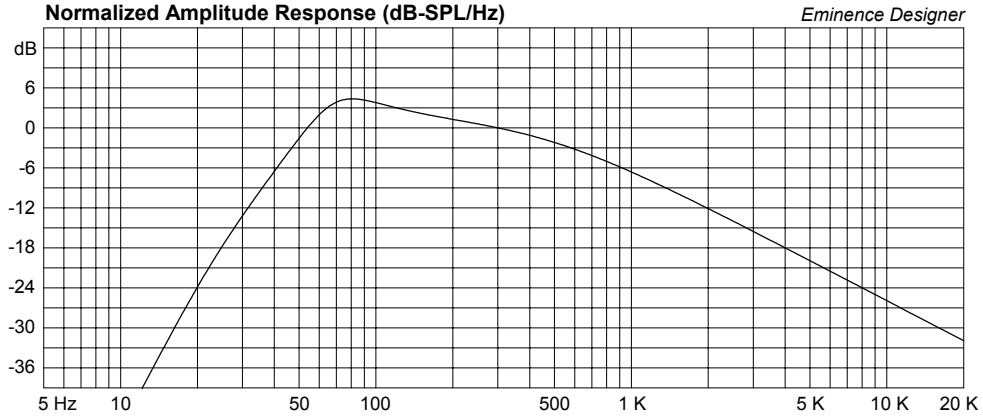
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 9 cu.ft
V(total) = 10.4 cu.ft
Fb = 48 Hz
QL = 7
F3 = 46.79 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = other
Vent ends = one flush
Av = 33.89 sq.in
Lv = 9.034 in

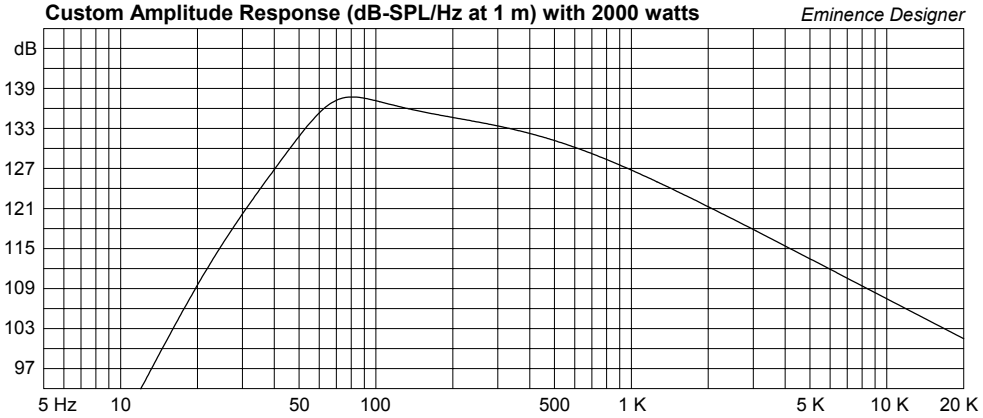
Driver Properties

--Description--
Name: KiloMax Pro 18A
Type: Standard one-way driver
Comment: Updated Nov 2008
--Configuration--
No. of Drivers = 2
Mounting = Standard
Wiring = Parallel
Drivers sum coherently = Yes
--Driver Parameters--
Fs = 31.73 Hz
Qms = 10.15
Vas = 11.71 cu.ft [23.41]
Xmax = 0.394 in
Sd = 179.6 sq.in [359.3]
Qes = 0.49
Re = 5.07 ohms [2.535]
Le = 1.59 mH [0.795]
Z = 8 ohms [4]
Pe = 1250 watts [2500]

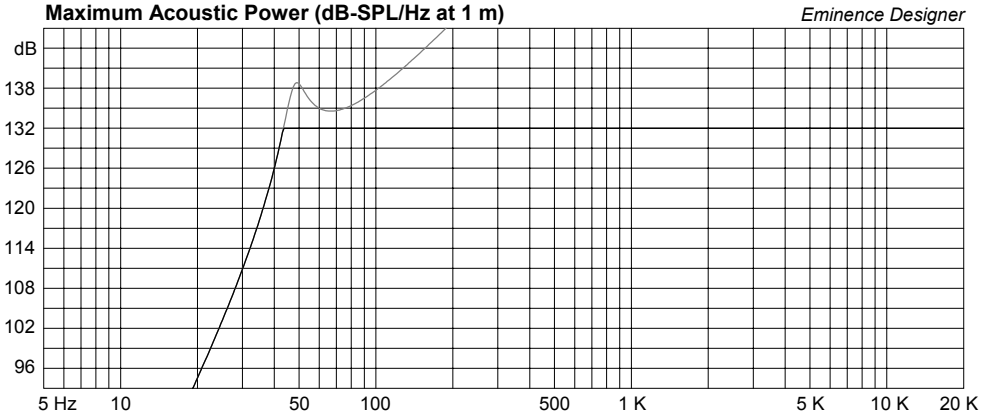
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 2000 watts *Eminence Designer*



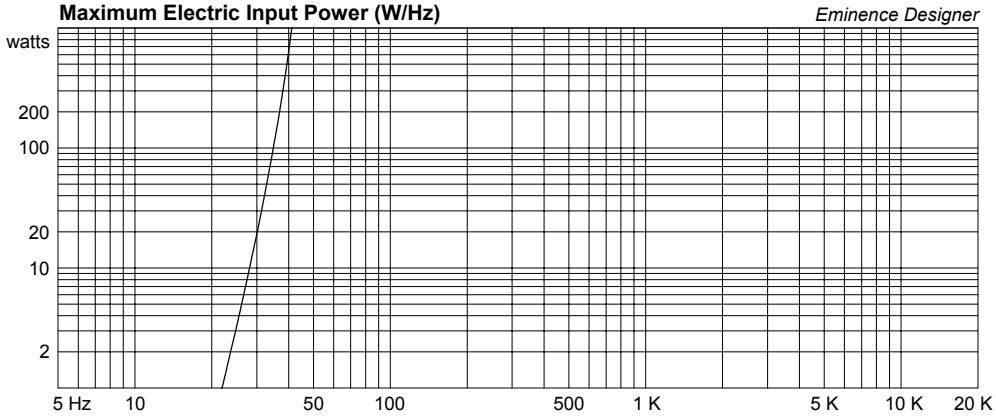
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



File: KiloMaxPro18ADoubleTour2000.bb6

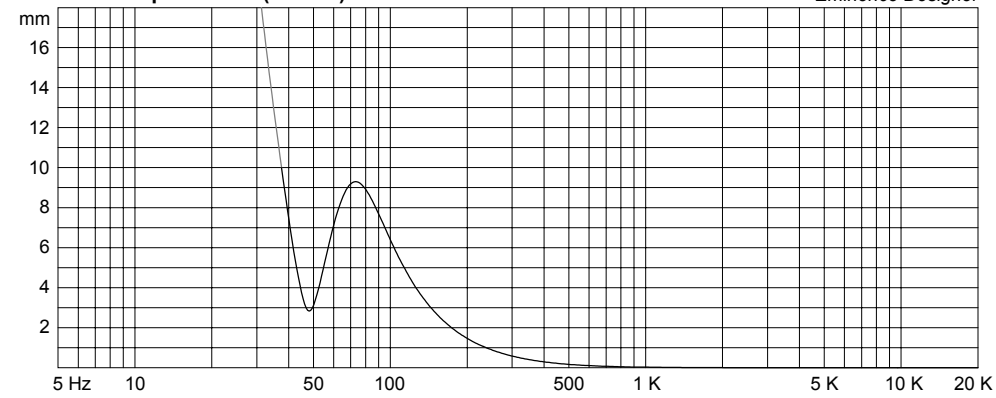
Maximum Electric Input Power (W/Hz)

Eminence Designer



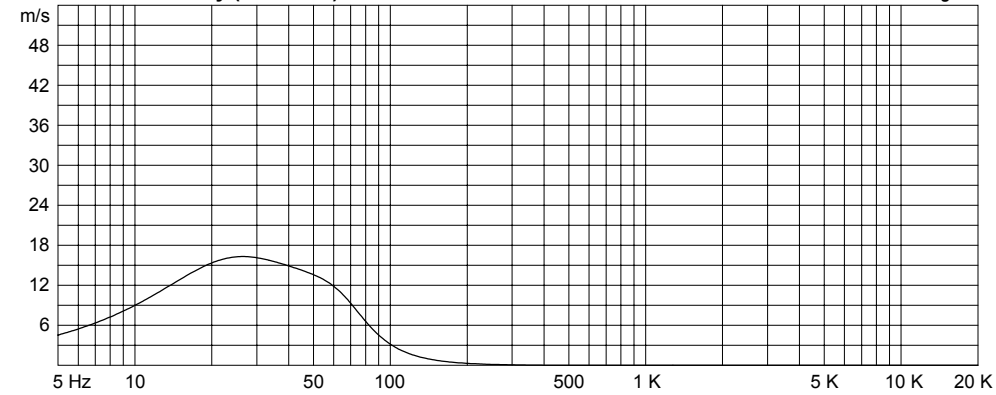
Cone Displacement (mm/Hz) with 2000 watts

Eminence Designer



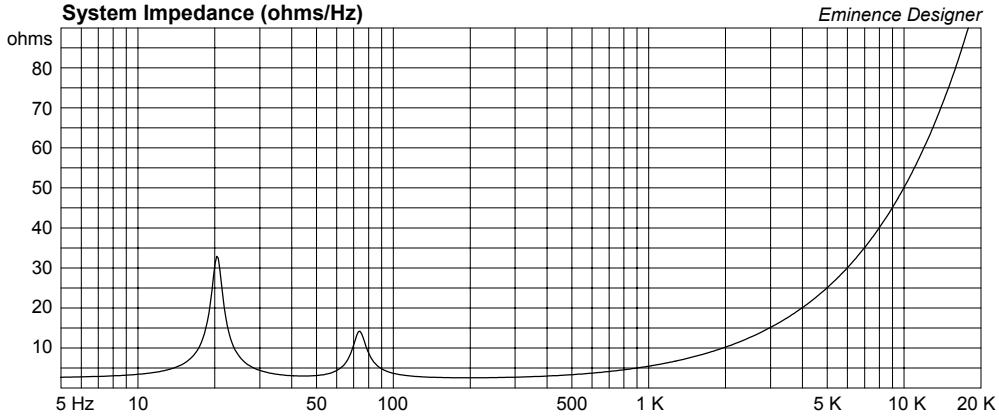
Vent Air Velocity (m/sec/Hz) with 2000 watts

Eminence Designer



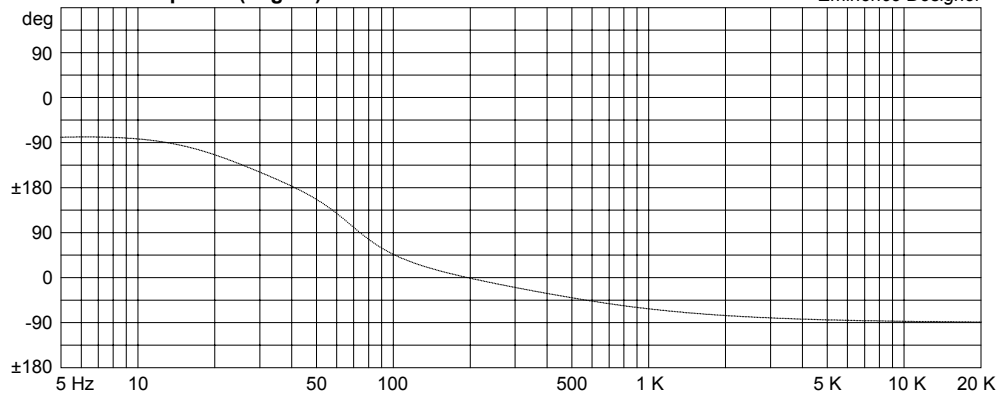
System Impedance (ohms/Hz)

Eminence Designer



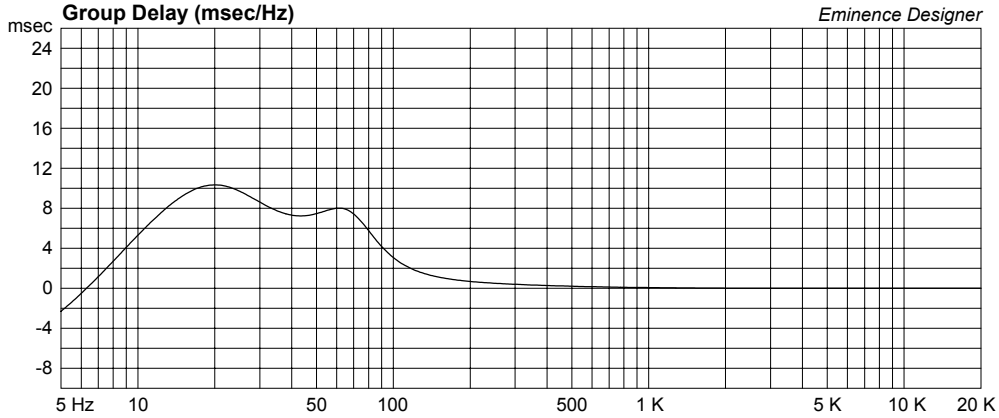
Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer



Club Sub 1200, Twin Kilo 18's, Low F3

By Jerry McNutt, Eminence Speaker LLC
Limit to 1200 Watts; F3 of 37 Hz. Use a steep high pass filter set to 25 Hz to protect your woofers. Place ports symmetrically about woofer.

EMINENCE

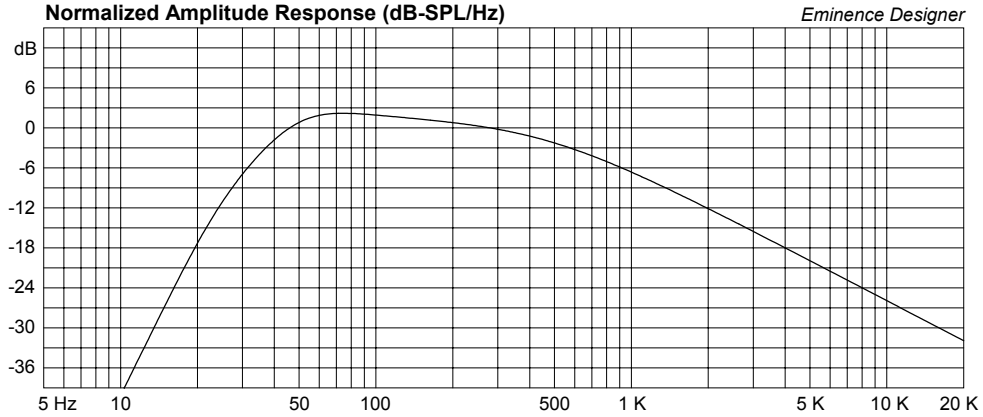
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 15 cu.ft
V(total) = 16.32 cu.ft
Fb = 35 Hz
QL = 7
F3 = 37.01 Hz
Fill = none
--Vents--
No. of Vents = 4
Vent shape = other
Vent ends = one flush
Av = 32 sq.in
Lv = 10.5 in

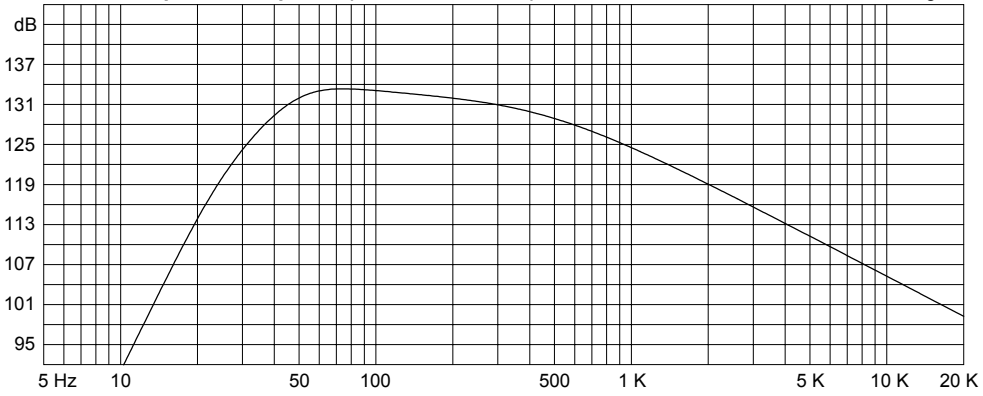
Driver Properties

--Description--
Name: KiloMax Pro 18A
Type: Standard one-way driver
Comment: Updated Nov 2008
--Configuration--
No. of Drivers = 2
Mounting = Standard
Wiring = Parallel
Drivers sum coherently = Yes
--Driver Parameters--
Fs = 31.73 Hz
Qms = 10.15
Vas = 11.71 cu.ft [23.41]
Xmax = 0.394 in
Sd = 179.6 sq.in [359.3]
Qes = 0.49
Re = 5.07 ohms [2.535]
Le = 1.59 mH [0.795]
Z = 8 ohms [4]
Pe = 1250 watts [2500]

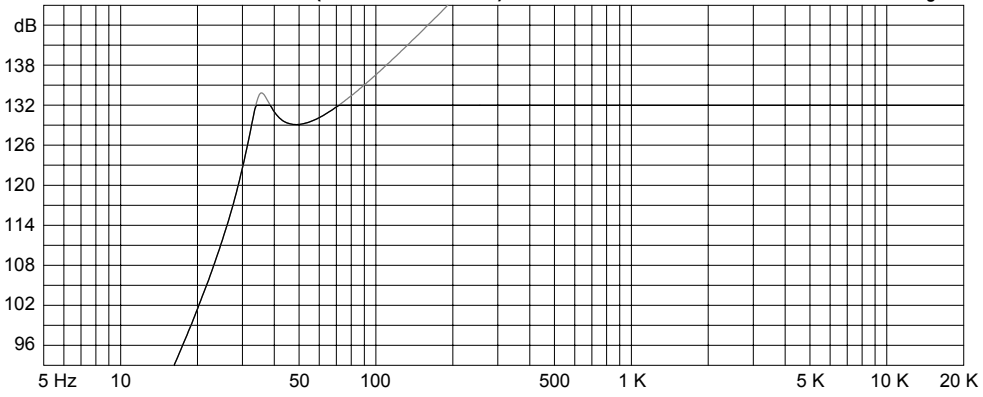
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1200 watts *Eminence Designer*



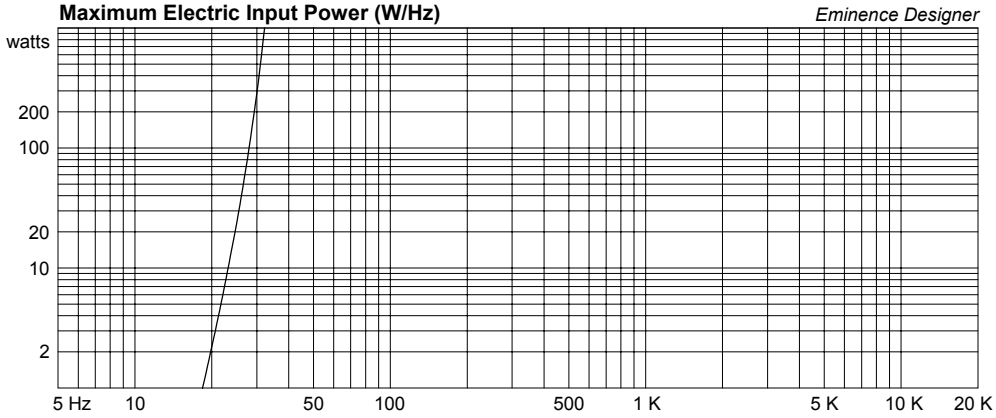
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



File: KiloMaxPro18ADoubleClubMaxSub1200.bb6

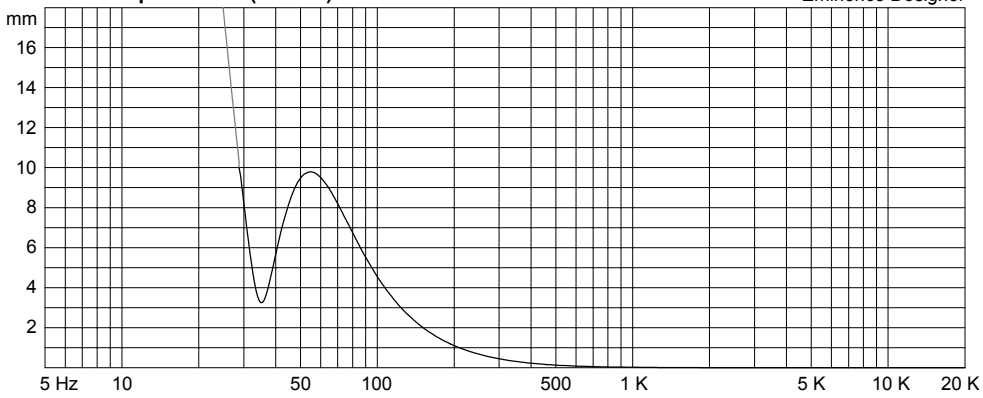
Maximum Electric Input Power (W/Hz)

Eminence Designer



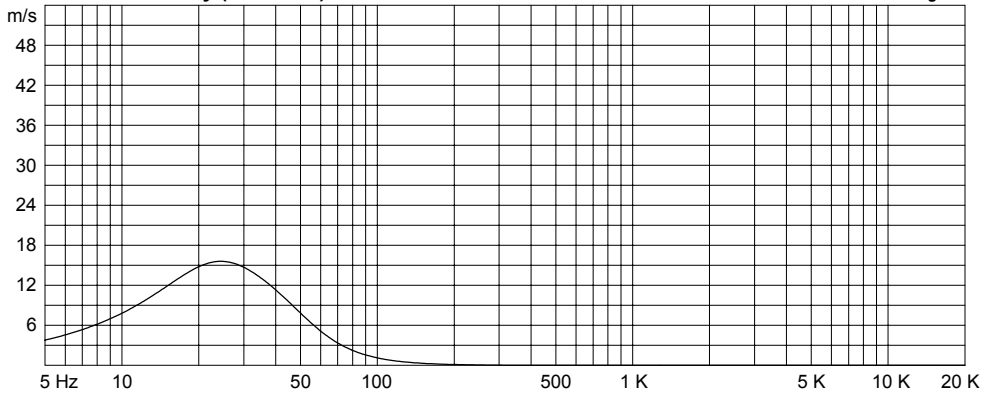
Cone Displacement (mm/Hz) with 1200 watts

Eminence Designer



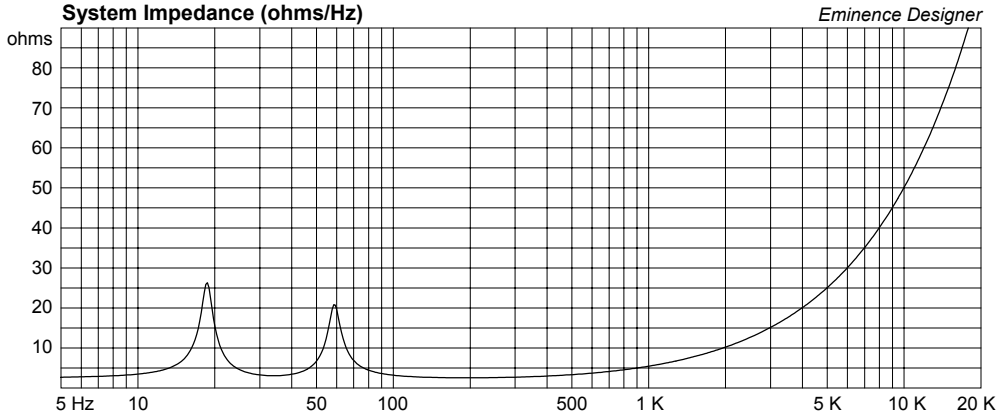
Vent Air Velocity (m/sec/Hz) with 1200 watts

Eminence Designer



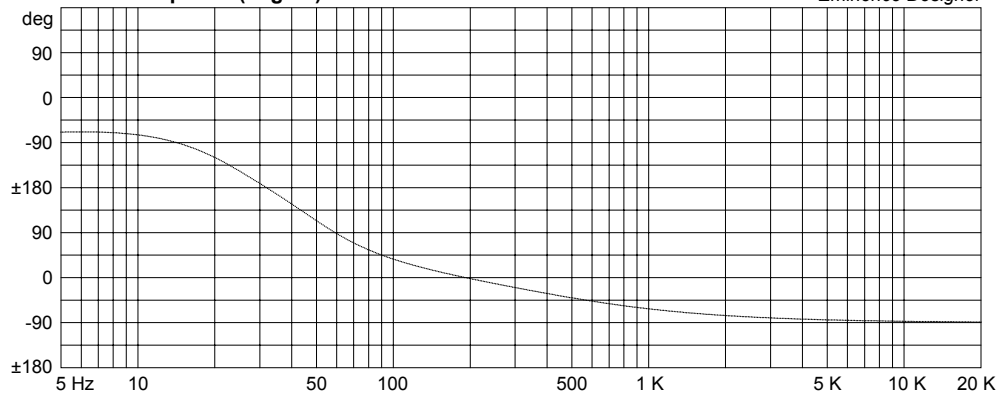
System Impedance (ohms/Hz)

Eminence Designer



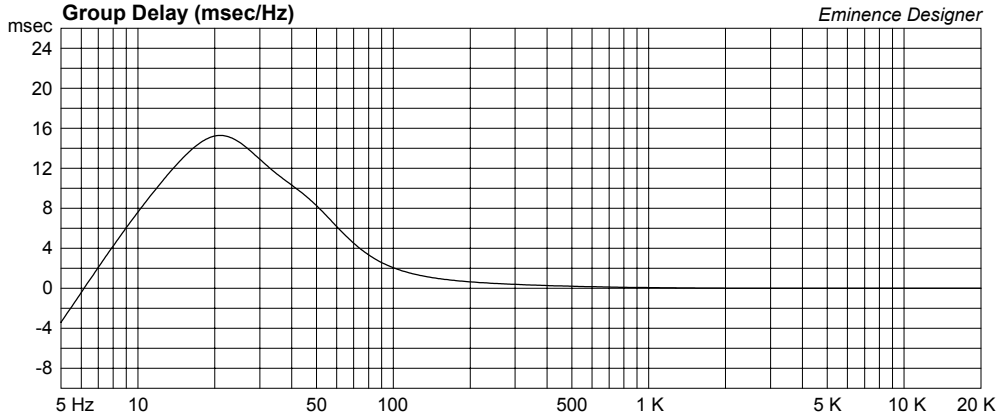
Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer



KiloMaxPro 18A Larger Classic Double 18, Lower F3

By Jerry McNutt, Eminence Speaker LLC
Limit to 1400 Watts; F3 of 38 Hz. Use a steep high pass filter set to 30 Hz to protect your woofer. Place ports symmetrically about woofer.

EMINENCE

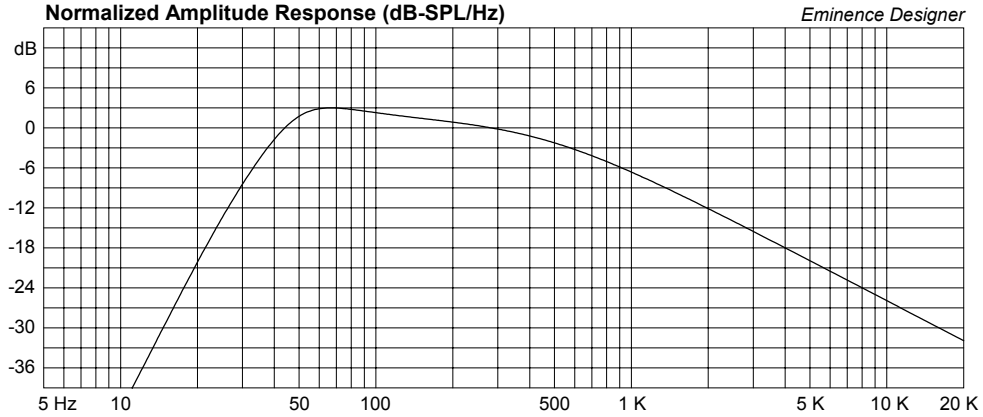
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 15 cu.ft
V(total) = 16.03 cu.ft
Fb = 40 Hz
QL = 7
F3 = 37.6 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = other
Vent ends = one flush
Av = 33.89 sq.in
Lv = 6.542 in

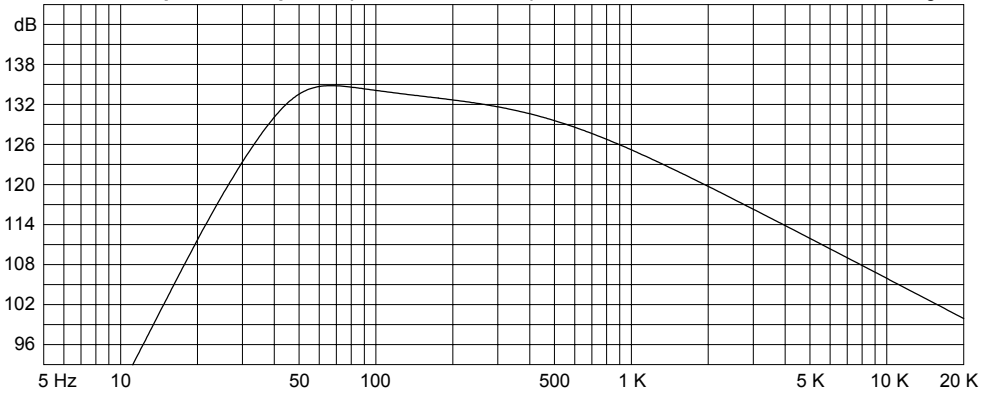
Driver Properties

--Description--
Name: KiloMax Pro 18A
Type: Standard one-way driver
Comment: Updated Nov 2008
--Configuration--
No. of Drivers = 2
Mounting = Standard
Wiring = Parallel
Drivers sum coherently = Yes
--Driver Parameters--
Fs = 31.73 Hz
Qms = 10.15
Vas = 11.71 cu.ft [23.41]
Xmax = 0.394 in
Sd = 179.6 sq.in [359.3]
Qes = 0.49
Re = 5.07 ohms [2.535]
Le = 1.59 mH [0.795]
Z = 8 ohms [4]
Pe = 1250 watts [2500]

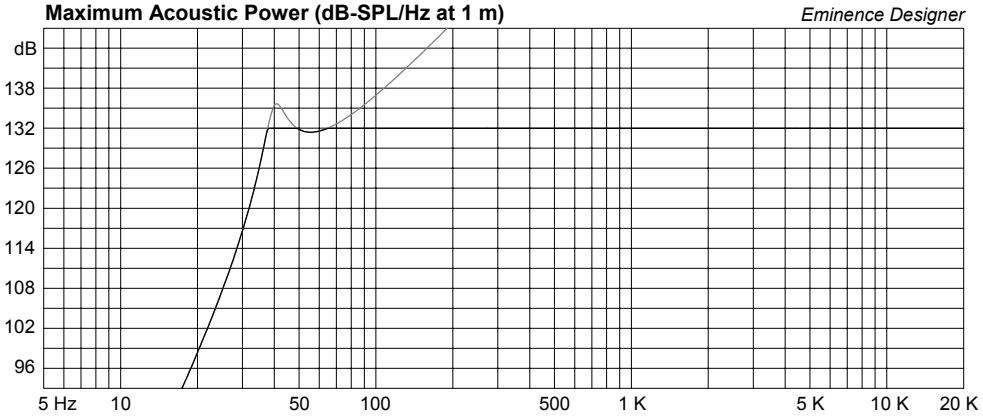
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1400 watts *Eminence Designer*



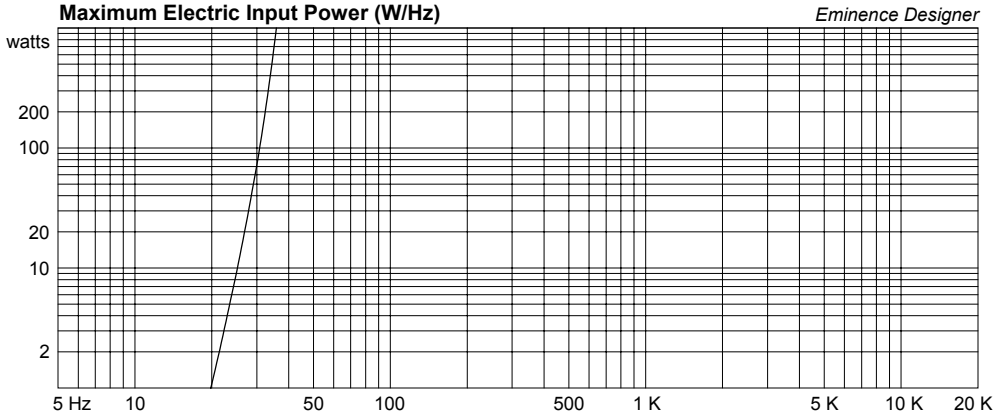
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



File: KiloMaxPro18ADoubleClub1400.bb6

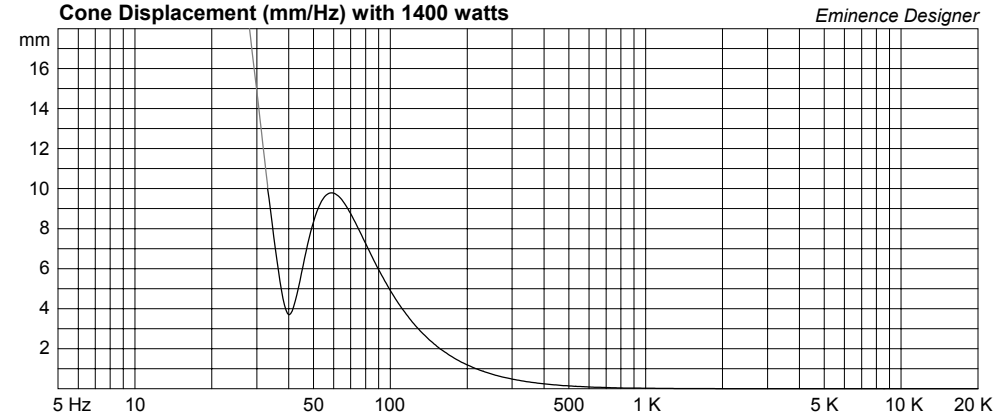
Maximum Electric Input Power (W/Hz)

Eminence Designer



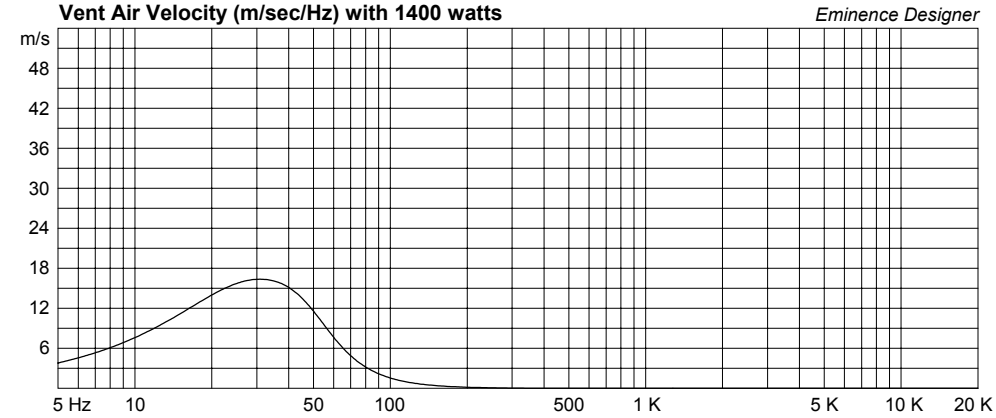
Cone Displacement (mm/Hz) with 1400 watts

Eminence Designer



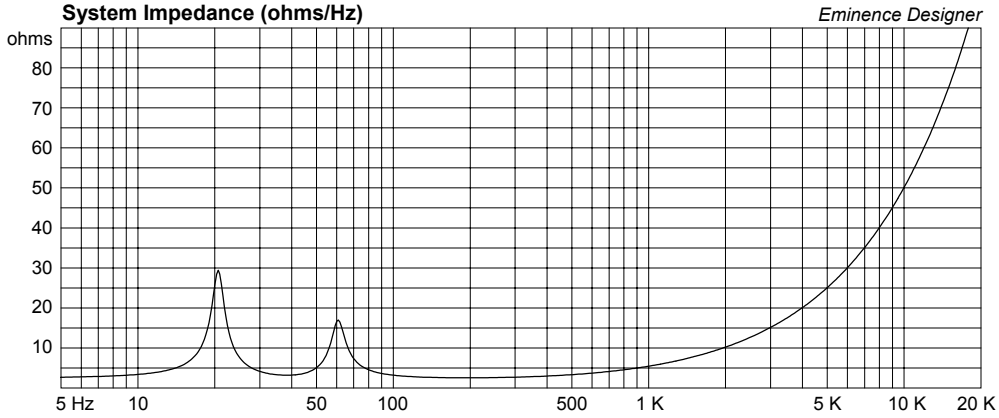
Vent Air Velocity (m/sec/Hz) with 1400 watts

Eminence Designer



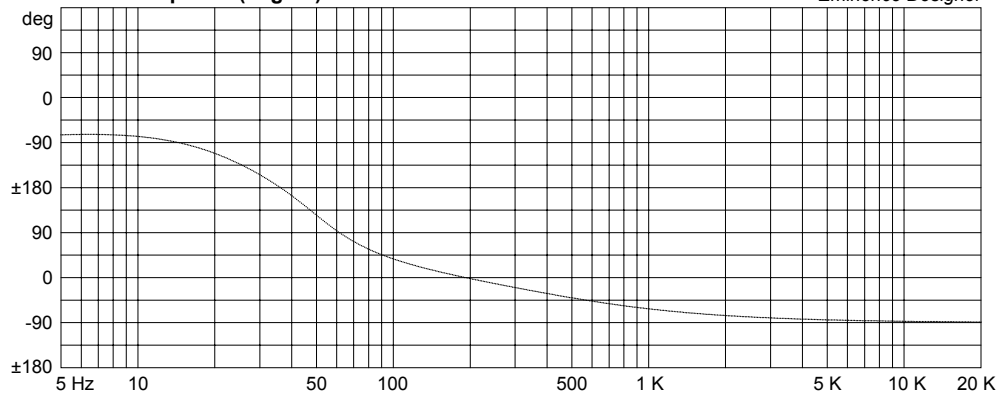
System Impedance (ohms/Hz)

Eminence Designer



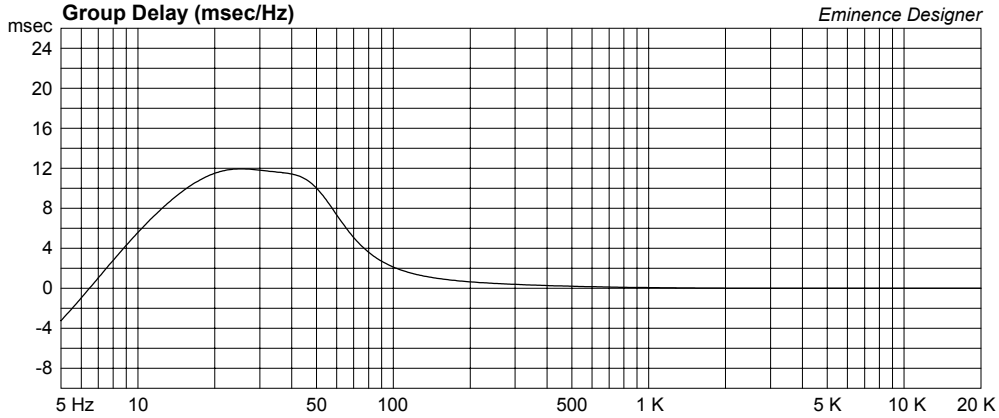
Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer



KiloMaxPro 18A Very Large Vented Sub, Very Low F3

By Jerry McNutt, Eminence Speaker LLC
Limit to 450 Watts; F3 of 33 Hz. Use a steep high pass filter set to 25 Hz
to protect your woofer. Place ports symmetrically about woofer. Discover Deep Bass.

EMINENCE

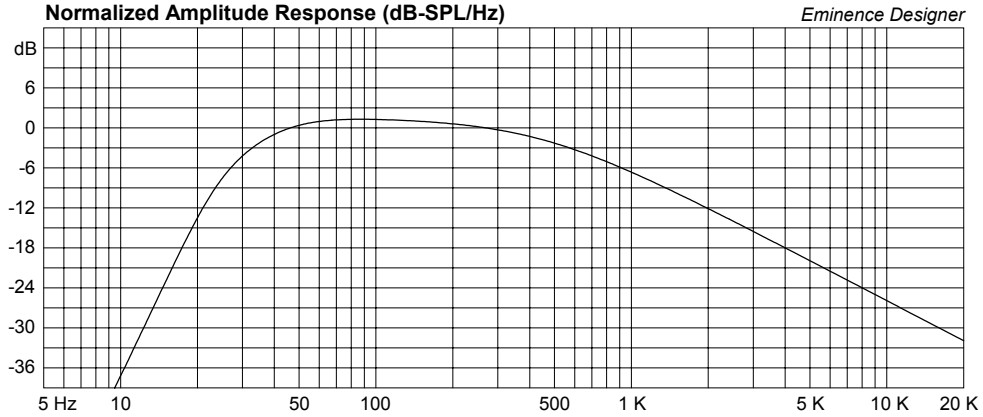
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 10 cu.ft
V(total) = 10.65 cu.ft
Fb = 29.81 Hz
QL = 7
F3 = 32.76 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 10.2 in

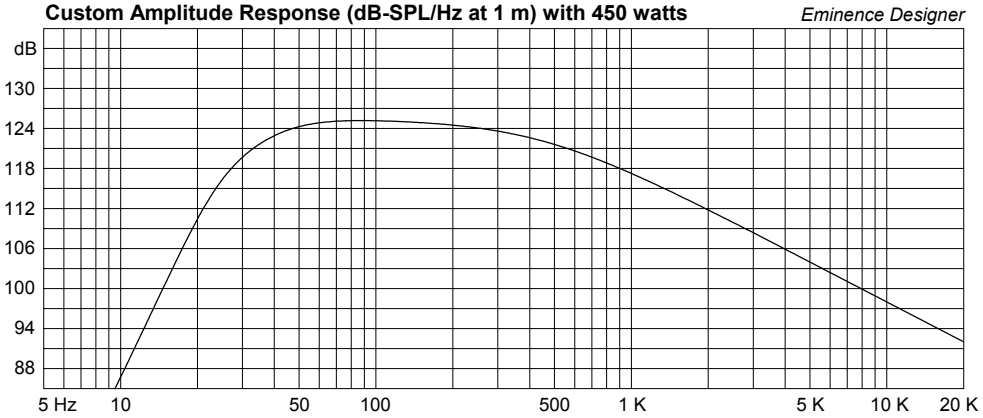
Driver Properties

--Description--
Name: KiloMax Pro 18A
Type: Standard one-way driver
Comment: Updated Nov 2008
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 31.73 Hz
Qms = 10.15
Vas = 11.71 cu.ft
Xmax = 0.394 in
Sd = 179.6 sq.in
Qes = 0.49
Re = 5.07 ohms
Le = 1.59 mH
Z = 8 ohms
Pe = 1250 watts

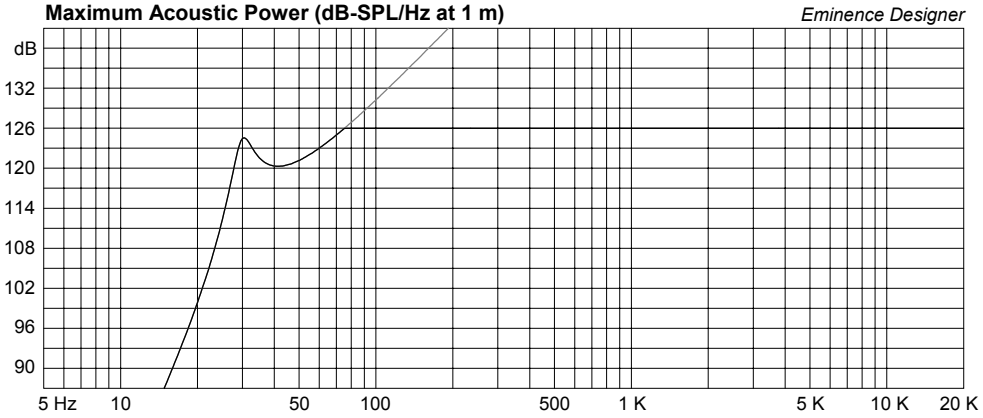
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



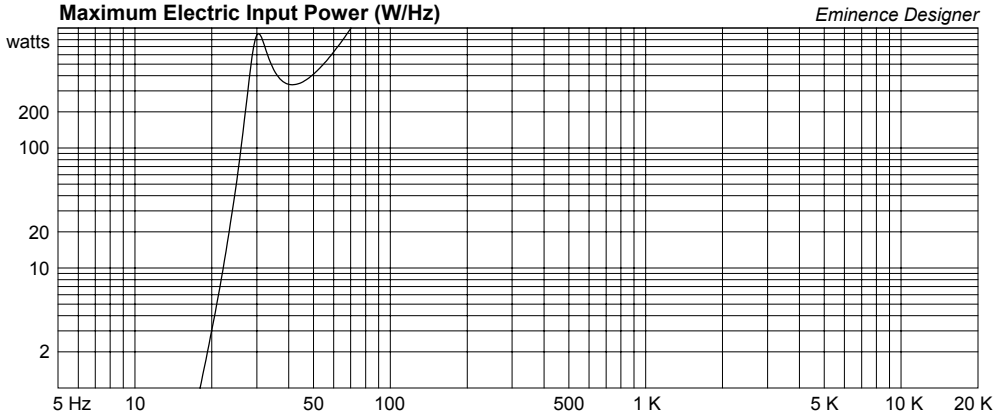
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 450 watts *Eminence Designer*



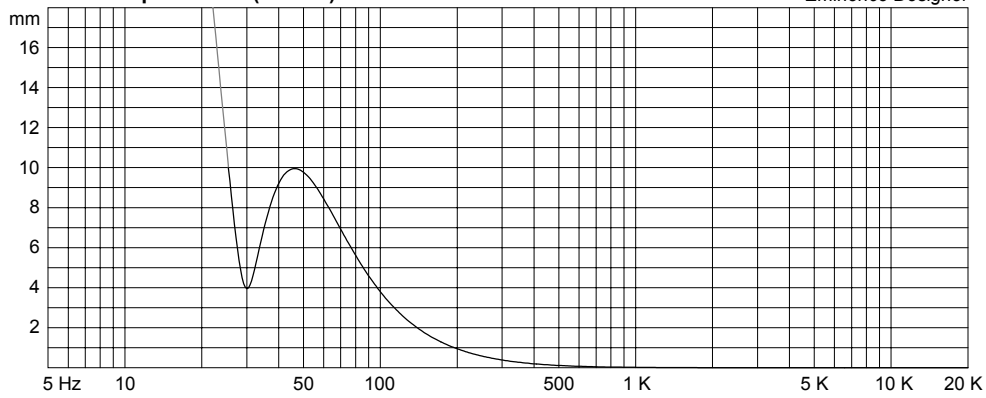
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



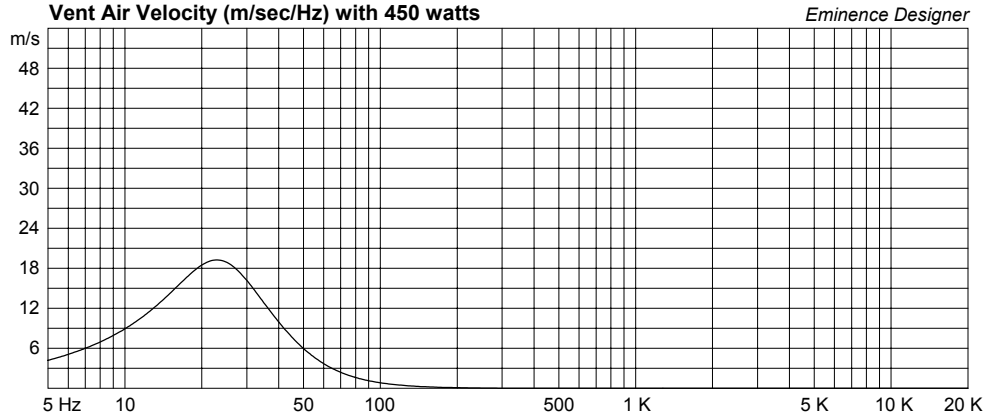
Maximum Electric Input Power (W/Hz) *Eminence Designer*



Cone Displacement (mm/Hz) with 450 watts *Eminence Designer*

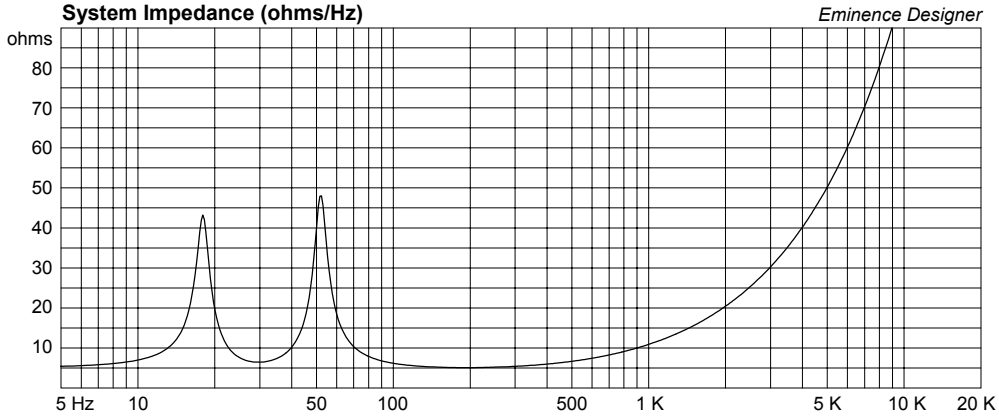


Vent Air Velocity (m/sec/Hz) with 450 watts *Eminence Designer*



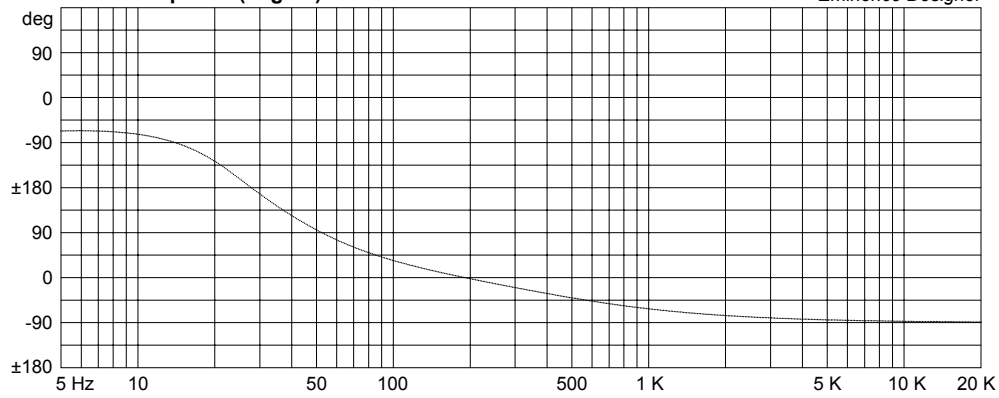
System Impedance (ohms/Hz)

Eminence Designer



Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer