

Omega Pro 12-2KW-8 Small Size Cabinet

By Matthew Marcum, Eminence Speaker LLC

Thermally limited to 1000W; F3 of 65Hz. Use steep high pass filter set at 55-60Hz.

Position ports symmetrically around woofer to reduce chance of cone rock.



Box Properties

--Description--

Name: Vented Box 1

Type: Vented Box

Shape: Prism, square

Company: Eminence Speaker LLC

--Box Parameters--

Vb = 0.951 cu.ft

V(total) = 1.134 cu.ft

Fb = 68.11 Hz

QL = 7

F3 = 65.05 Hz

Fill = normal

--Vents--

No. of Vents = 4

Vent shape = other

Vent ends = one flush

Av = 4.8 sq.in

Lv = 8.25 in

Driver Properties

--Description--

Name: Omega Pro 12-2KW-8

Type: Standard one-way driver

Company: Eminence Speaker LLC

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 48 Hz

Qms = 14.88

Vas = 49.55 liters

Cms = 0.12 mm/N

Mms = 91.96 g

Rms = 1.87 kg/s

Xmax = 7.1 mm

Xmech = 20 mm

P-Dia = 262 mm

Sd = 545.4 sq.cm

P-Vd = 0.383 liters

--Electrical Parameters--

Qes = 0.4

Re = 6.04 ohms

Le = 1.13 mH

Z = 8 ohms

BL = 20.4 Tm

Pe = 1000 watts

--Electromech. Parameters--

Qts = 0.39

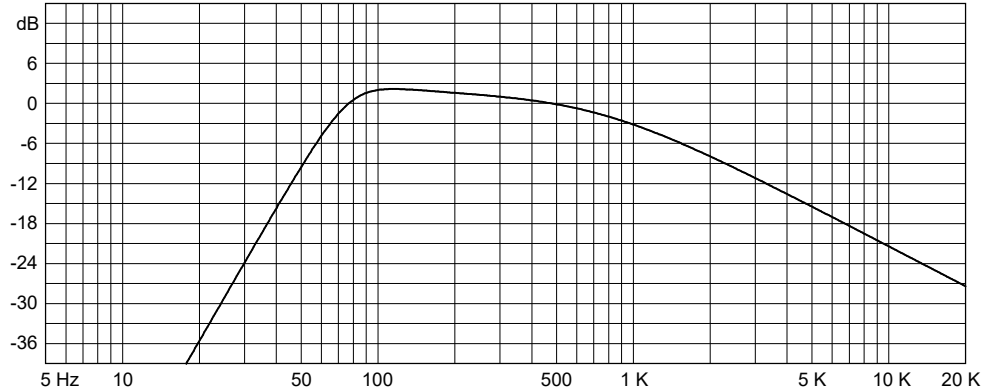
no = 1.321 %

1-W SPL = 93.36 dB

2.83-V SPL = 94.58 dB

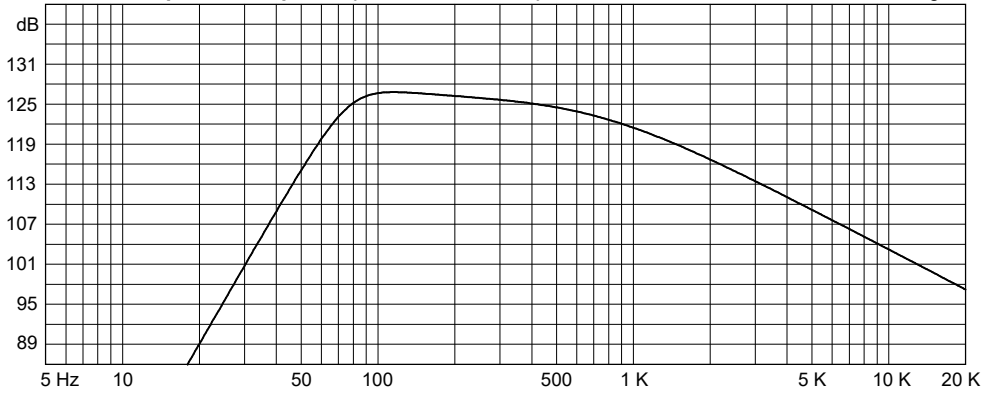
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



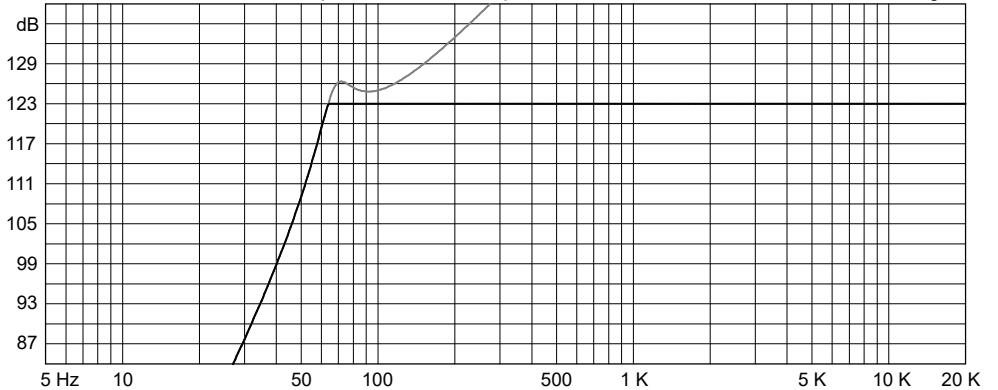
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1000 watts

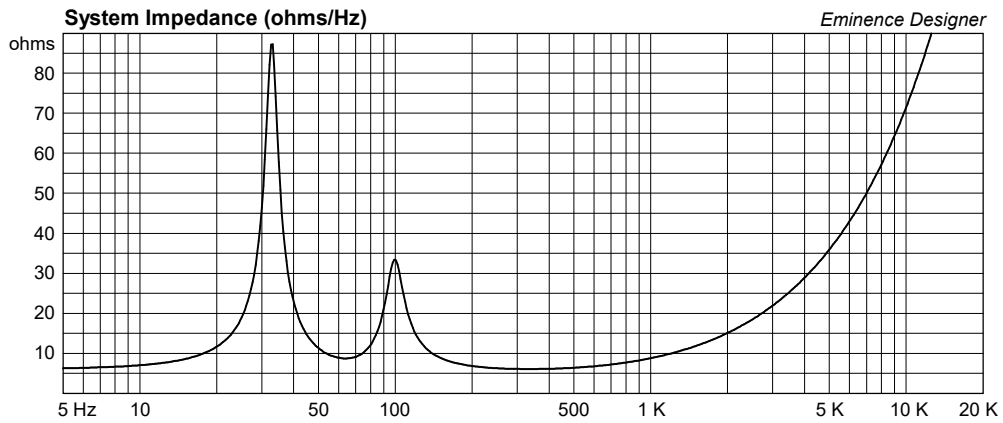
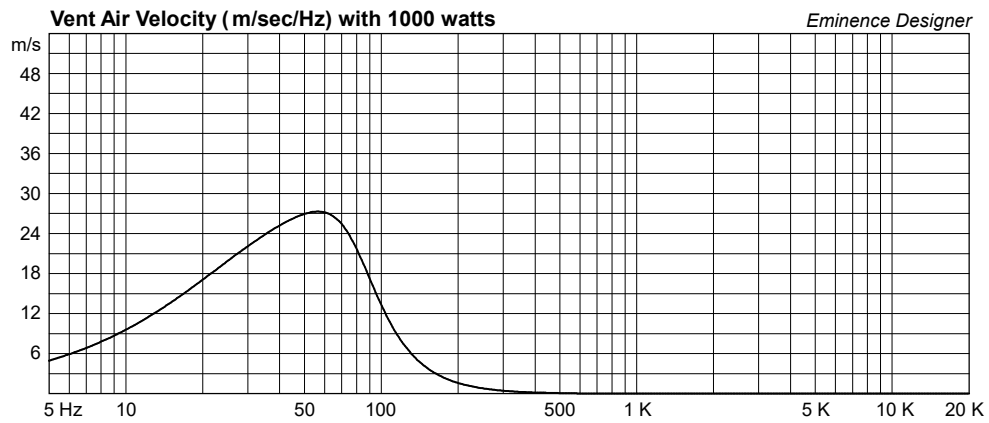
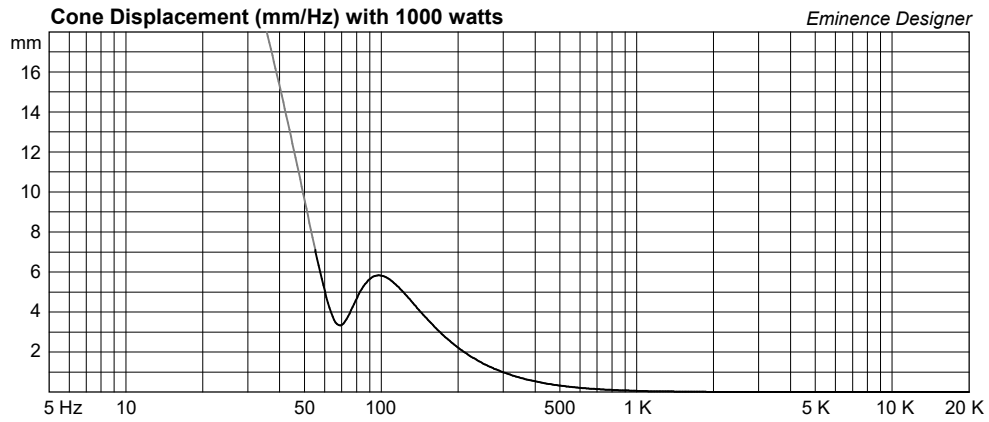
Eminence Designer

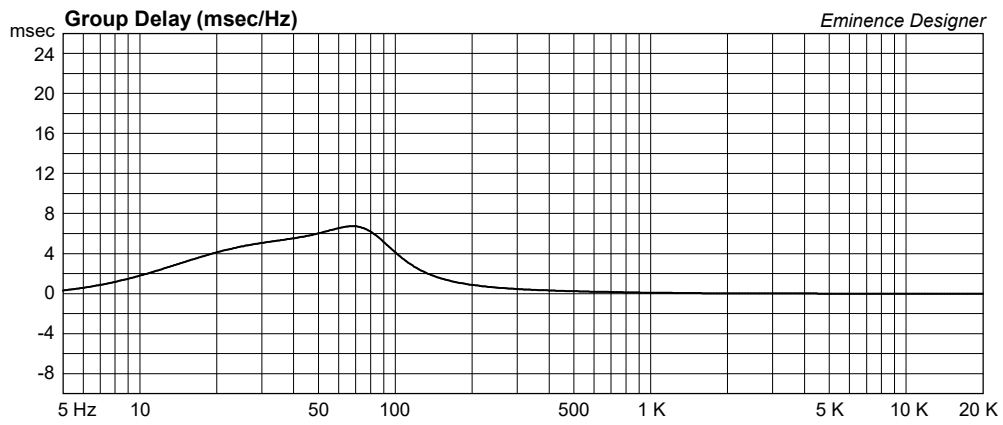
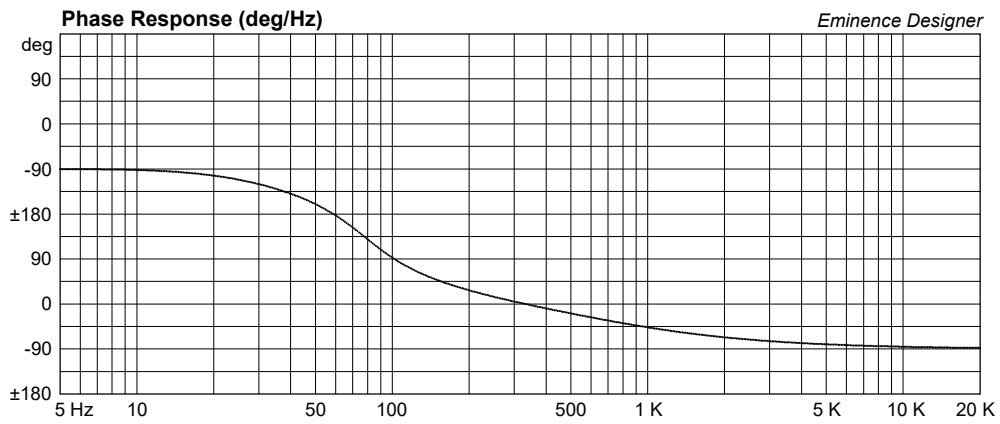


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Omega Pro 12-2KW-8 Medium Size Cabinet

By Matthew Marcum, Eminence Speaker LLC

Displacement limited to 900W; F3 of 54Hz. Use steep high pass filter set at 46-50Hz.

Position ports symmetrically around woofer to reduce chance of cone rock.



Box Properties

--Description--

Name: Vented Box 2

Type: Vented Box

Shape: Prism, square

Company: Eminence Speaker LLC

--Box Parameters--

Vb = 1.433 cu.ft

V(total) = 1.653 cu.ft

Fb = 53.11 Hz

QL = 7

F3 = 54.06 Hz

Fill = normal

--Vents--

No. of Vents = 4

Vent shape = other

Vent ends = one flush

Av = 5.2 sq.in

Lv = 10.25 in

Driver Properties

--Description--

Name: Omega Pro 12-2KW-8

Type: Standard one-way driver

Company: Eminence Speaker LLC

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 48 Hz

Qms = 14.88

Vas = 49.55 liters

Cms = 0.12 mm/N

Mms = 91.96 g

Rms = 1.87 kg/s

Xmax = 7.1 mm

Xmech = 20 mm

P-Dia = 262 mm

Sd = 545.4 sq.cm

P-Vd = 0.383 liters

--Electrical Parameters--

Qes = 0.4

Re = 6.04 ohms

Le = 1.13 mH

Z = 8 ohms

BL = 20.4 Tm

Pe = 1000 watts

--Electromech. Parameters--

Qts = 0.39

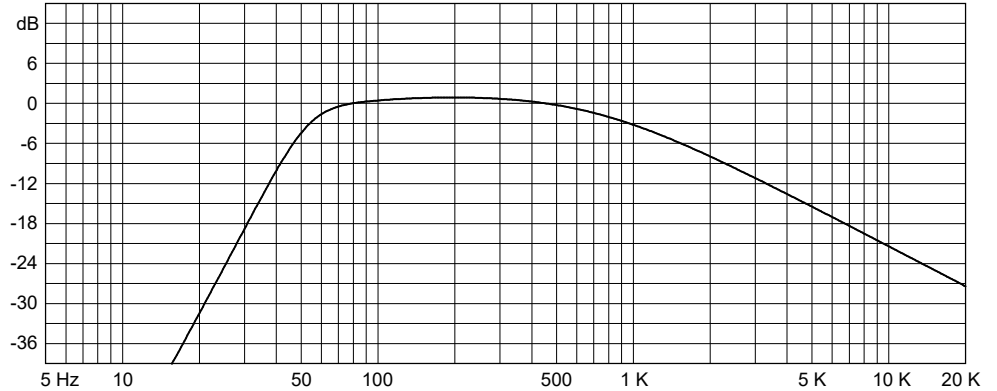
no = 1.321 %

1-W SPL = 93.36 dB

2.83-V SPL = 94.58 dB

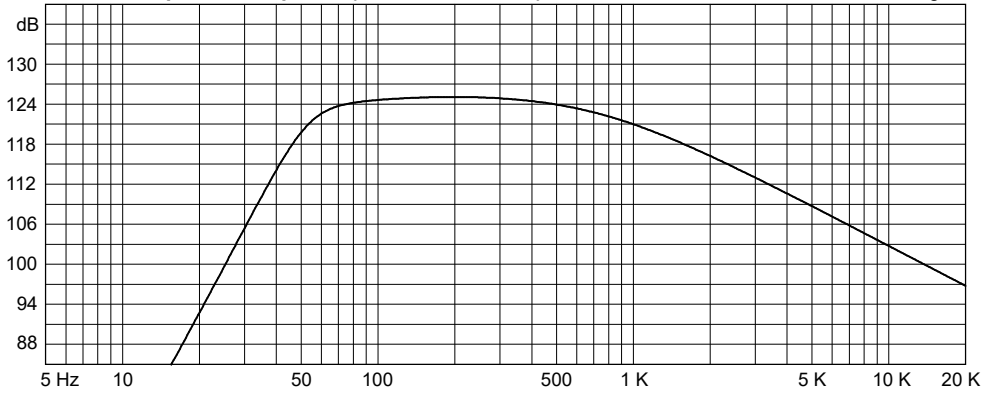
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



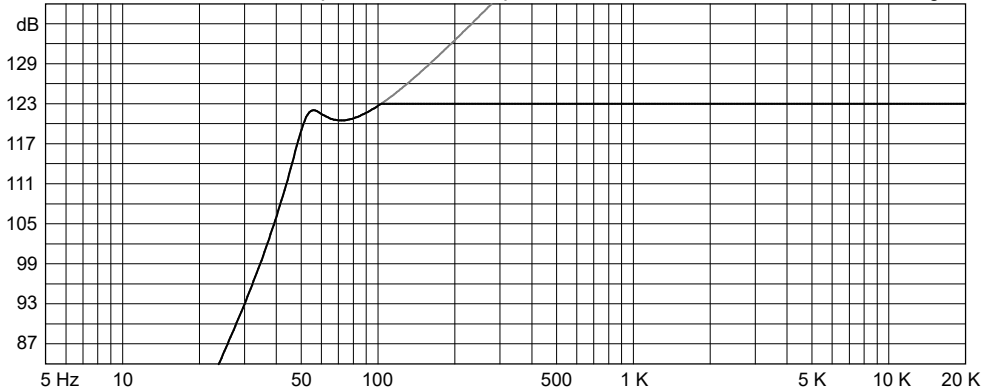
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 900 watts

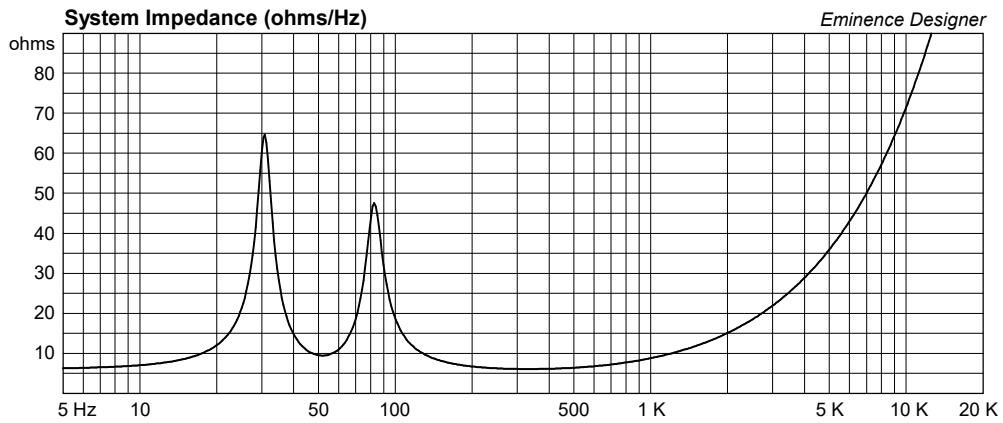
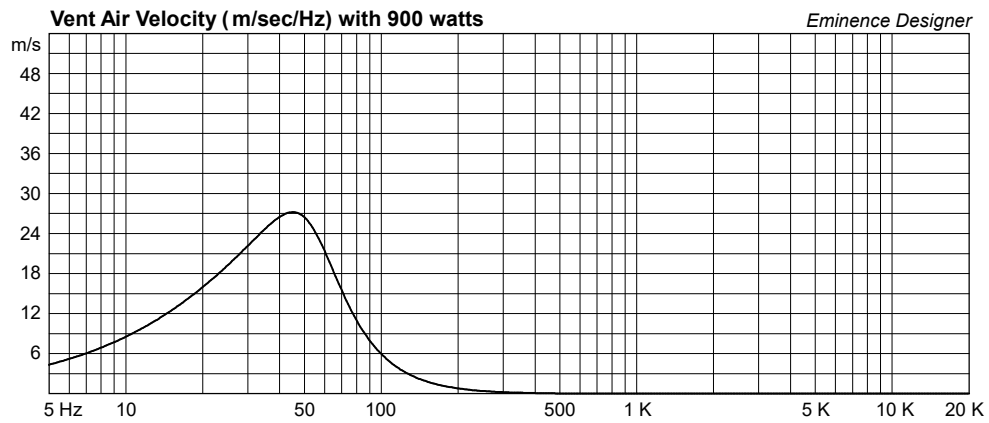
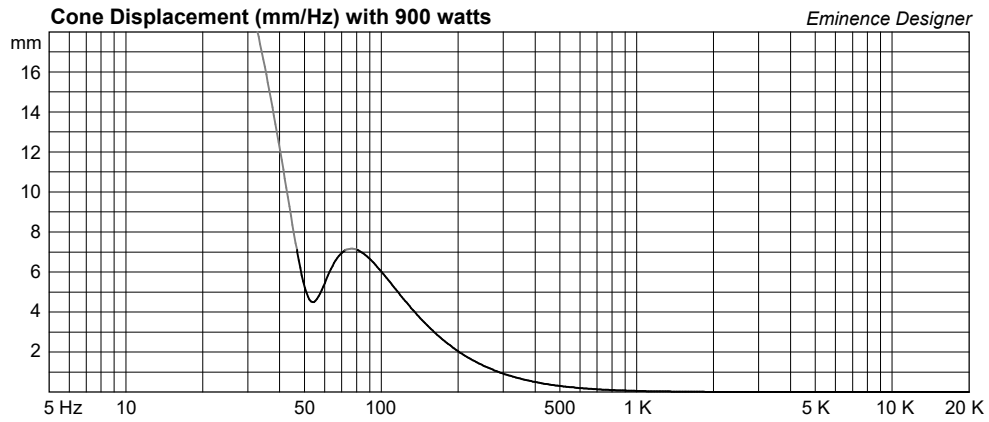
Eminence Designer

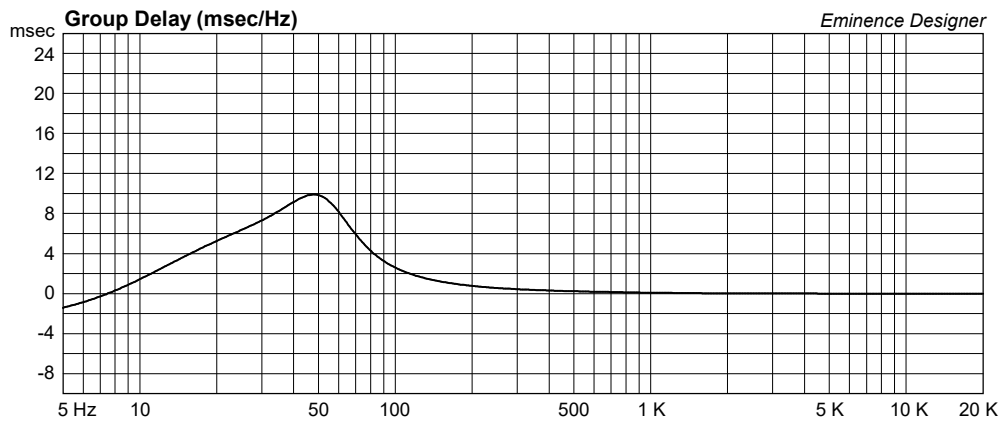
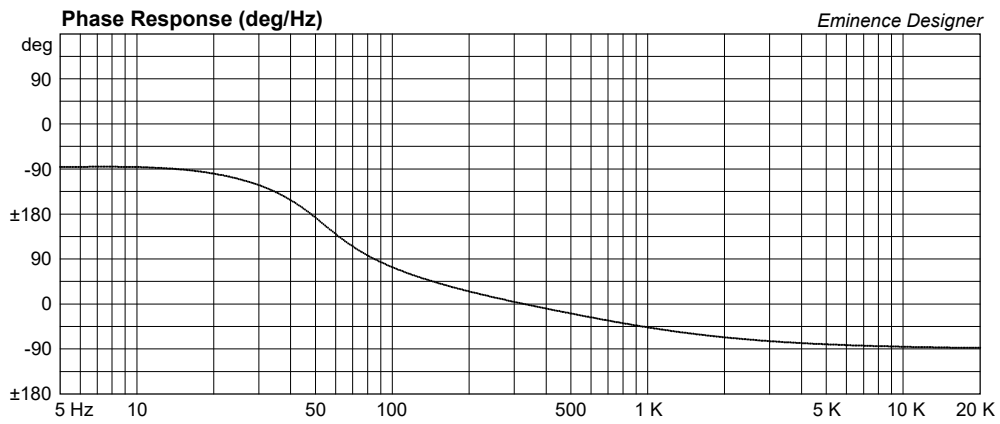


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Omega Pro 12-2KW-8 Large Cabinet

By Matthew Marcum, Eminence Speaker LLC

Displacement limited to 600W; F3 of 44Hz. Use steep high pass filter set to 45Hz.

Position ports symmetrically around woofer to reduce chance of cone rock.



Box Properties

--Description--

Name: Vented Box 3

Type: Vented Box

Shape: Prism, square

Company: Eminence Speaker LLC

--Box Parameters--

Vb = 2.898 cu.ft

V(total) = 3.056 cu.ft

Fb = 47.93 Hz

QL = 7

F3 = 44.27 Hz

Fill = normal

--Vents--

No. of Vents = 4

Vent shape = other

Vent ends = one flush

Av = 5.75 sq.in

Lv = 5.5 in

Driver Properties

--Description--

Name: Omega Pro 12-2KW-8

Type: Standard one-way driver

Company: Eminence Speaker LLC

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 48 Hz

Qms = 14.88

Vas = 49.55 liters

Cms = 0.12 mm/N

Mms = 91.96 g

Rms = 1.87 kg/s

Xmax = 7.1 mm

Xmech = 20 mm

P-Dia = 262 mm

Sd = 545.4 sq.cm

P-Vd = 0.383 liters

--Electrical Parameters--

Qes = 0.4

Re = 6.04 ohms

Le = 1.13 mH

Z = 8 ohms

BL = 20.4 Tm

Pe = 1000 watts

--Electromech. Parameters--

Qts = 0.39

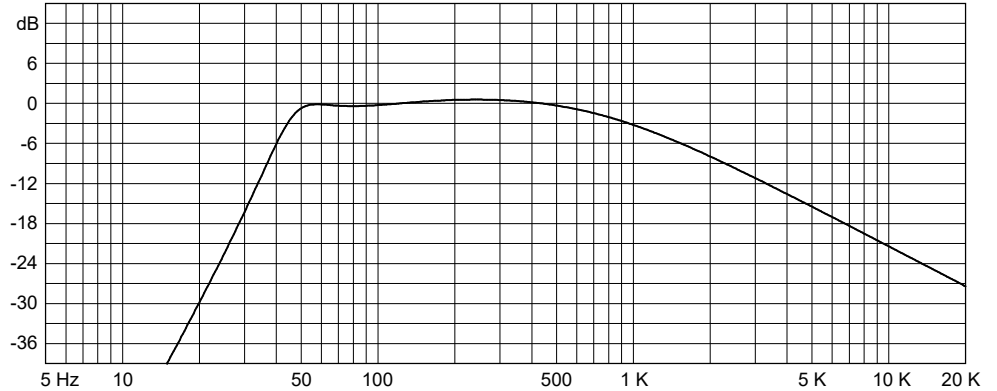
no = 1.321 %

1-W SPL = 93.36 dB

2.83-V SPL = 94.58 dB

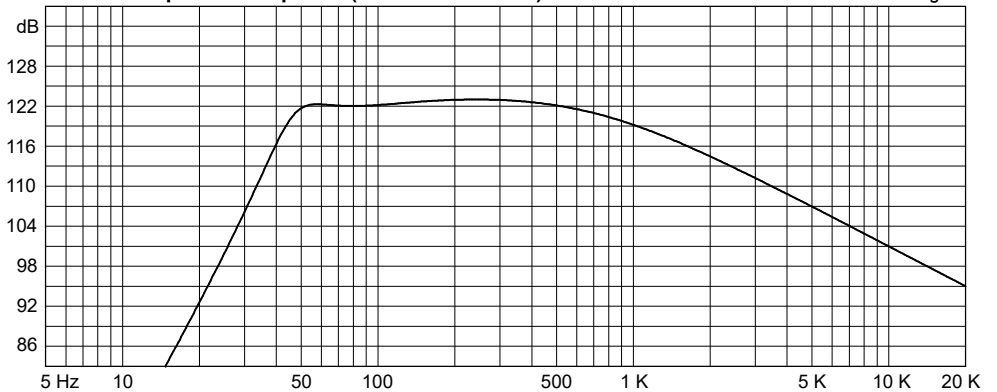
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 600 watts

Eminence Designer



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

Eminence Designer

