EMINENCE®

Tour Grade Speaker

NSW4018-8

18" Tour Grade - American Muscle

Advanced FEA optimization tools were implemented on this next generation of touring grade worthy subwoofers by Eminence. The result is an extremely long throw, lightweight, and exceptionally high power handling driver with top notch performance in small to large vented enclosures.

18" | 3200 W 8 Ω

☐ Midrange ☐ Woofer ☐ Sealed Box ☐ Scoop Loading
☐ Midbass ☑ Subwoofer ☐ Bass Guitar ☑ Vented Box ☐ Horn Loading

SPECIFICATION

Nominal Basket Diameter		18.0", 457 mm
Nominal Impedance*		8 Ω
Power Rating**		
Watts	(AES)	1600 W
Music Program		3200 W
Peak Power		6400 W
Resonance		36 Hz
Usable Frequency Range		27 Hz - 1.3 kHz
Sensitivity***		96.6 dB
Magnet Weight		33 oz.
Gap Height		0.5", 12.7 mm
Voice Coil Diameter		4.0", 102 mm
Winding Height		1.60", 40.64 mm
Mirror Image Twin Spiders		
Water Resistant		

THIELE SMALL PARAMETERS*

Fs	36 Hz
Re	5.86 Ω
Le	1.54 mH
Qms	8.46
Qes	0.39
Qts	0.38
Vas	5.81 cu.ft., 164.49 liters
Vd	1851.1 cc
Cms	0.08 mm/N
BL	28.24 T-M
Mms	237 grams
EBP	91
Xmax	15.21 mm
Sd	1217.0 cm2
Xlim	31.5 mm

MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A - liters, N/A - cu.ft.
Vented	99.11 - 339.80 liters, 3.50 - 12.00 cu.ft.
Driver Volume Displaced	0.205 cu.ft.,5.81 liters
Overall Diameter	18.13", 460.5 mm
Baffle Hole Diameter	16.60", 421.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	17.32", 439.9 mm
Depth	8.90", 226.1 mm
Net Weight	20.90 lbs., 9.48 kg
Shipping Weight	23.40 lbs., 10.61 kg

MATERIALS OF CONSTRUCTION

I/O Copper Voice Coil	Die-cast Aluminum Basket
Fiberglass Former	X5 Cone Pulp
Neodymium Magnet	Advanced Polycotton Surround
Vented Motor	X5 Dust Cap Pulp

LEARN MORE AT EMINENCE.COM

EMINENCE®

The Art and Science of Sound

From design and manufacturing to the stage or studio. Once you've experienced the performance of Eminence, you'll never accept anything else.

MISSION STATEMENT

Eminence is dedicated to providing the best Quality, Value and Service to meet our customers' needs.

FOOTNOTES

* Please consult www.eminence.com for specifications of models with alternative impedances.

** Eminence Speaker LLC Tour Grade Drivers are power tested using the AES-1984 Testing Guidelines.

*** The average output across the usable frequency range when applying 1W/1m into the nominal impedance. i.e: 2.83V/8Ω, 4V/16Ω. 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 | Carver PM-120 amplifier | 2700 cu. ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).

**** BETA 8CX, 10CX, and 12CX are coaxial speakers with tweeter sold separately. Published usable frequency response contingent upon use of ASD:1001 HF Driver.

***** Multiple units exceeded published ratings evaluated under EIA-426A or AES specification while mounted on Eminence's H290, H290S, or H2EA horn in a non-temperature-controlled environment.

******The average on axis output across the entire usable frequency range when applying 1W/1m into the nominal impedance, i.e. 2.83V/8Ω, 4V/16Ω. 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 horn front mounted | Carver PM-120 amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).

Prices, specifications and product cosmetics are subject to change without notice.

EMINENCE SPEAKER LLC

838 Mulberry Pike, Eminence, KY 40019

DESIGNED AND ASSEMBLED IN THE USA

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NSW4018-8 Small Size Sub

By Matt Marcum, Eminence Speaker LLC
Thermally limited to 1600W; F3 of 40Hz. Use steep high pass filter set to 32Hz
Place ports symmetrically about the woofer to reduce chance of cone rock.

EMINENCE

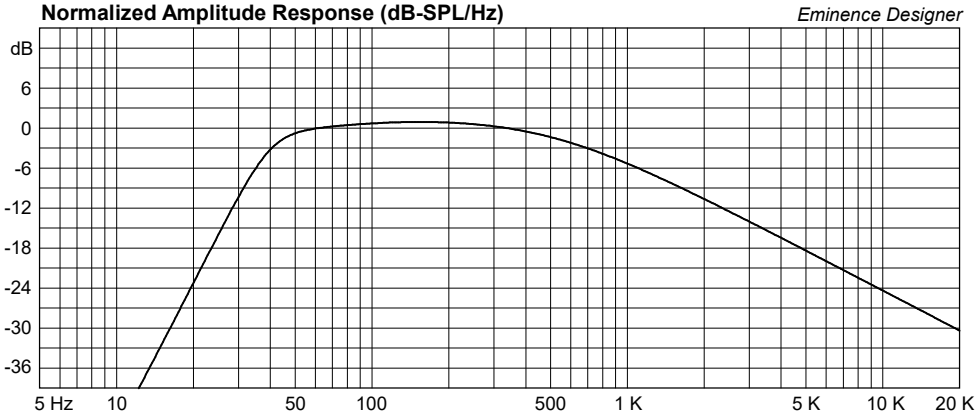
Box Properties

--Description--
Name: Vented Box 1
Type: Vented Box
Shape: Prism, square
Company: Eminence Speaker LLC
--Box Parameters--
Vb = 4.5 cu.ft
V(total) = 5.162 cu.ft
Fb = 40 Hz
QL = 6.679
F3 = 40.53 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 13.91 in

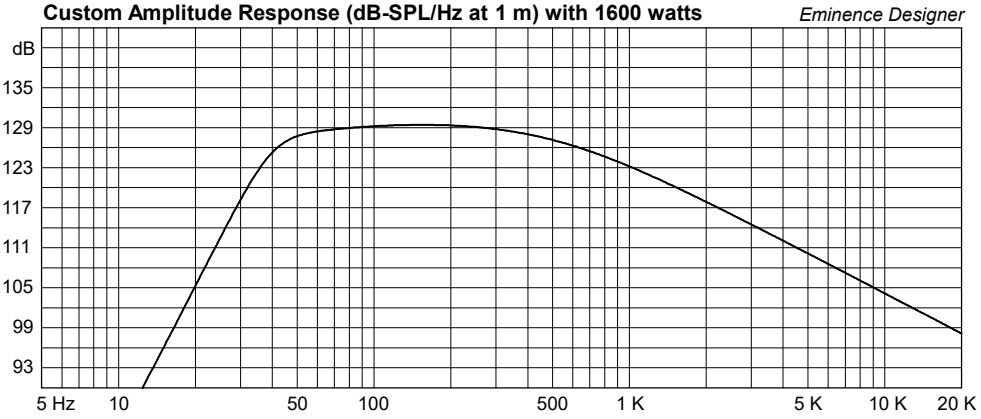
Driver Properties

--Description--
Name: NSW4018-8
Type: Standard one-way driver
Company: Eminence Speaker
--Configuration--
No. of Drivers = 1
--Mechanical Parameters--
Fs = 35.9 Hz
Qms = 8.46
Vas = 164.5 liters
Cms = 0.08 mm/N
Mms = 236.6 g
Rms = 6.31 kg/s
Xmax = 15.2 mm
Xmech = 31.5 mm
P-Dia = 391.4 mm
Sd = 1217 sq.cm
P-Vd = 1.829 liters
--Electrical Parameters--
Qes = 0.39
Re = 5.86 ohms
Le = 1.54 mH
Z = 8 ohms
BL = 28.24 Tm
Pe = 1600 watts
--Electromech. Parameters--
Qts = 0.38
no = 1.882 %
1-W SPL = 94.89 dB
2.83-V SPL = 96.24 dB

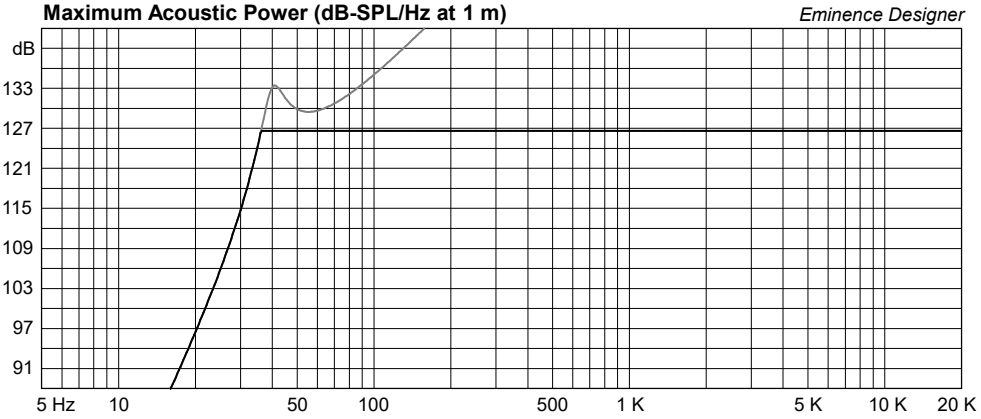
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



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

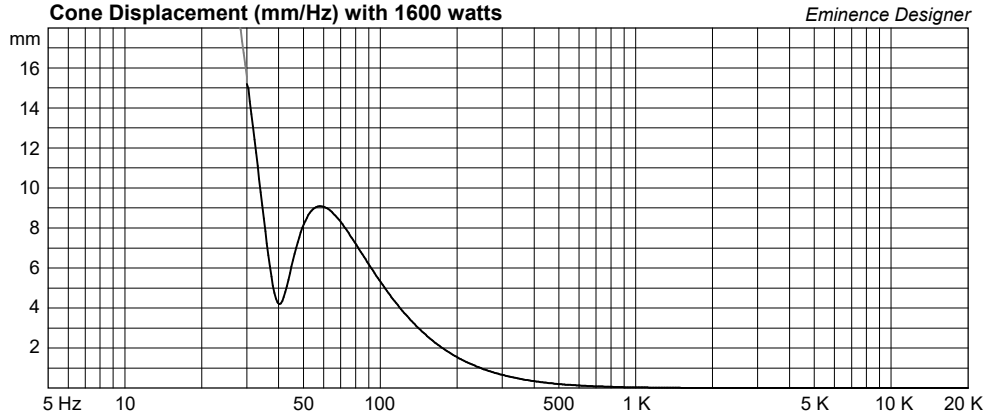


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



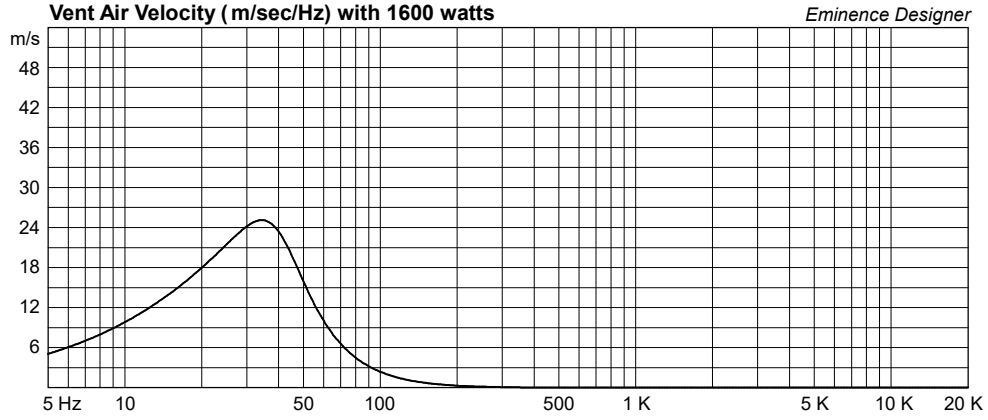
Cone Displacement (mm/Hz) with 1600 watts

Eminence Designer



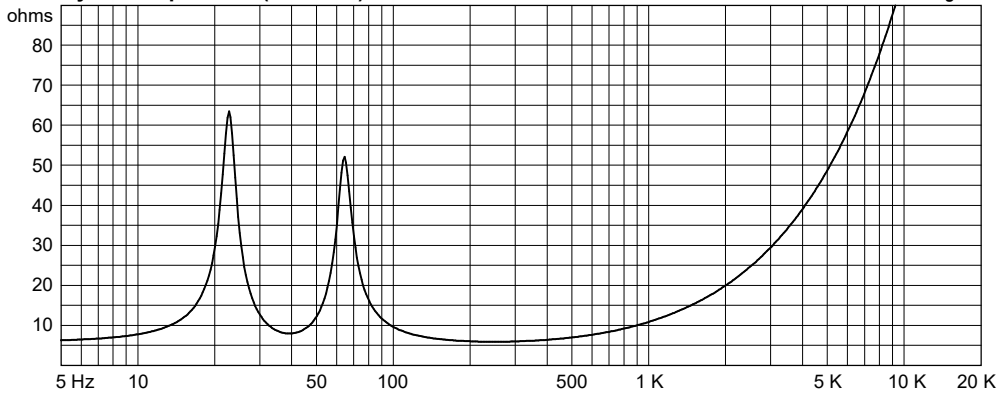
Vent Air Velocity (m/sec/Hz) with 1600 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



NSW4018-8 Medium Size Sub

By Matt Marcum, Eminence Speaker LLC
Thermally limited to 1600W; F3 of 35Hz. Use steep high pass filter set to 30Hz
Place ports symmetrically about the woofer to reduce chance of cone rock.

EMINENCE

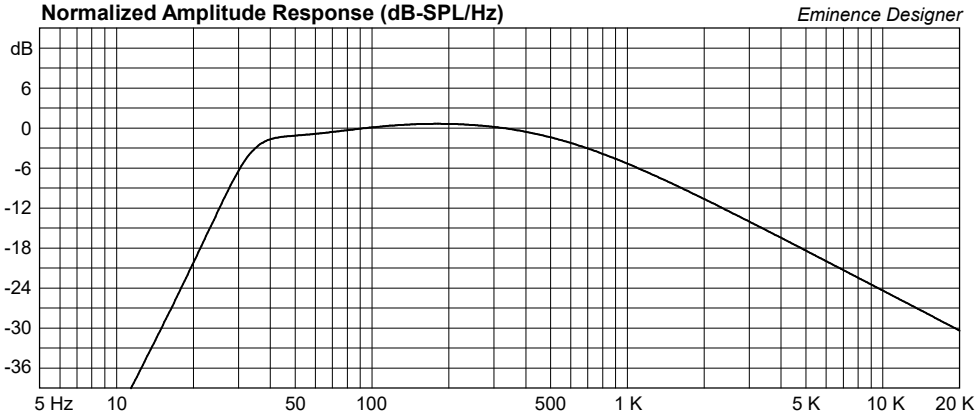
Box Properties

--Description--
Name: Vented Box 2
Type: Vented Box
Shape: Prism, square
Company: Eminence Speaker LLC
--Box Parameters--
Vb = 6.5 cu.ft
V(total) = 7.101 cu.ft
Fb = 35 Hz
QL = 6.679
F3 = 34.92 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 12.04 in

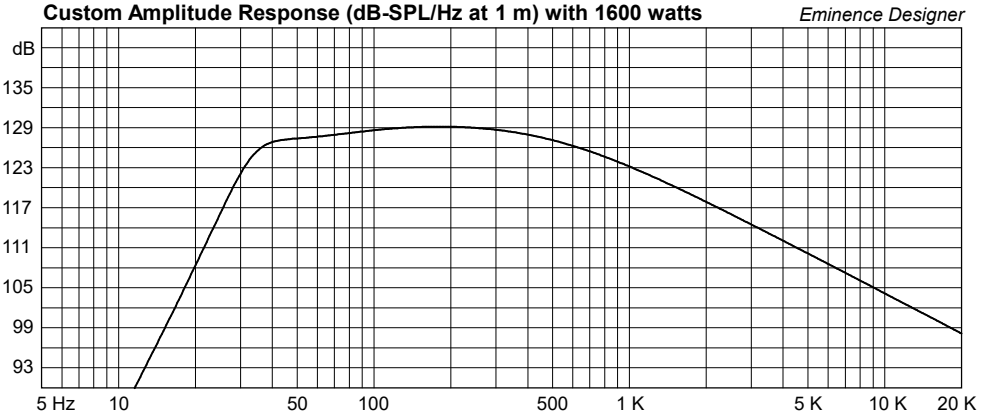
Driver Properties

--Description--
Name: NSW4018-8
Type: Standard one-way driver
Company: Eminence Speaker
--Configuration--
No. of Drivers = 1
--Mechanical Parameters--
Fs = 35.9 Hz
Qms = 8.46
Vas = 164.5 liters
Cms = 0.08 mm/N
Mms = 236.6 g
Rms = 6.31 kg/s
Xmax = 15.2 mm
Xmech = 38 mm
P-Dia = 391.4 mm
Sd = 1217 sq.cm
P-Vd = 1.829 liters
--Electrical Parameters--
Qes = 0.39
Re = 5.86 ohms
Le = 1.54 mH
Z = 8 ohms
BL = 28.24 Tm
Pe = 1600 watts
--Electromech. Parameters--
Qts = 0.38
no = 1.882 %
1-W SPL = 94.89 dB
2.83-V SPL = 96.24 dB

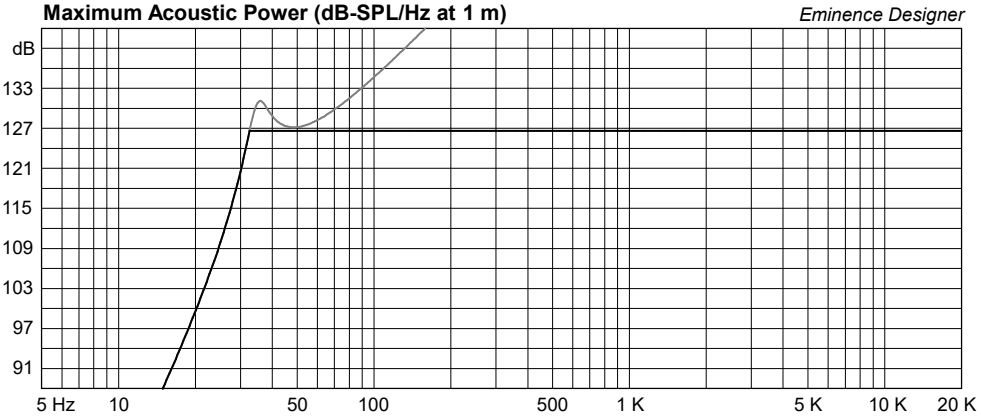
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



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

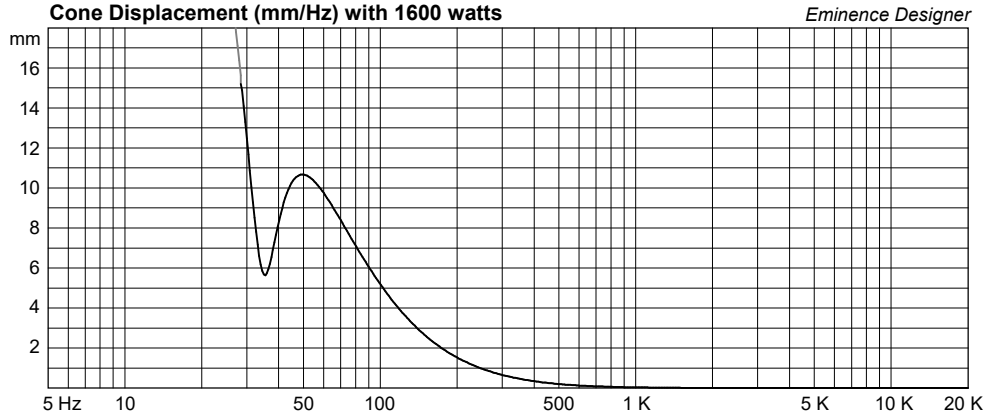


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



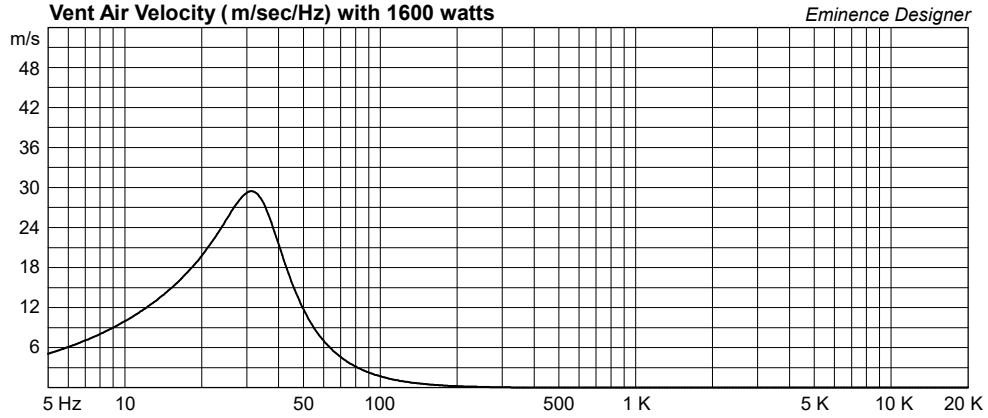
Cone Displacement (mm/Hz) with 1600 watts

Eminence Designer



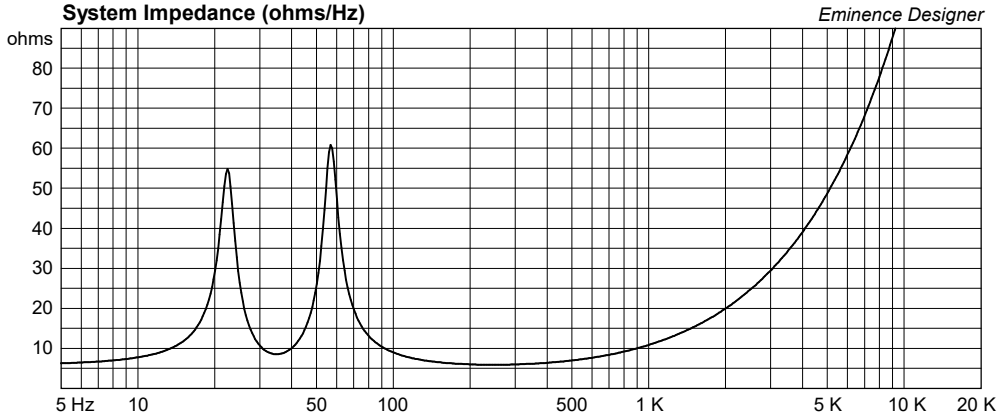
Vent Air Velocity (m/sec/Hz) with 1600 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



NSW4018-8 Lar e Size Sub

By Matt Marcum, Eminence Speaker LLC
Thermally limited to 1600W; F3 of 27Hz. Use steep high pass filter set to 25Hz
Place ports symmetrically about the woofer to reduce chance of cone rock.

EMINENCE

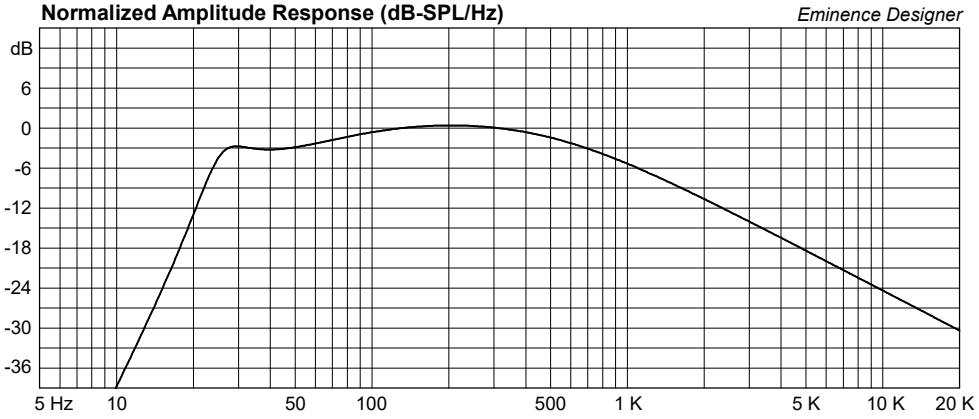
Box Properties

--Description--
Name: Vented Box 3
Type: Vented Box
Shape: Prism, square
Company: Eminence Speaker LLC
--Box Parameters--
Vb = 12.5 cu.ft
V(total) = 14.25 cu.ft
Fb = 27 Hz
QL = 6.679
F3 = 27.32 Hz
Fill = minimal
--Vents--
No. of Vents = 2
Vent shape = rectangle
Vent ends = one flush
Hv = 2 in
Wv = 24 in
Lv = 24.53 in

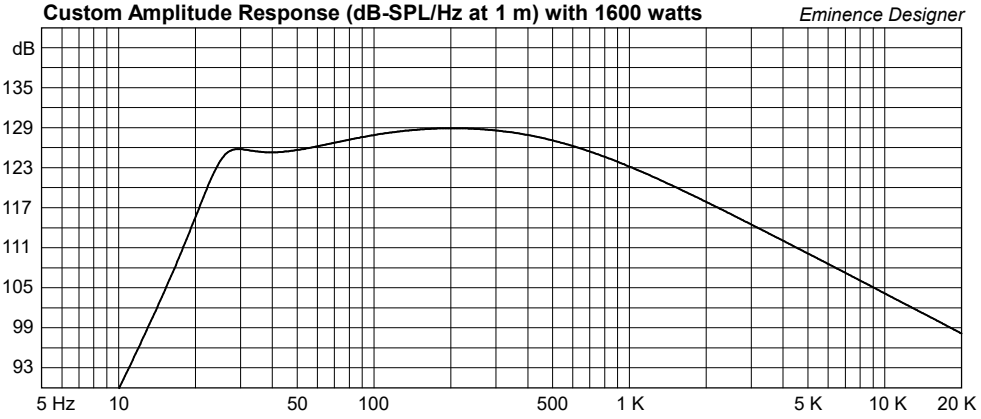
Driver Properties

--Description--
Name: NSW4018-8
Type: Standard one-way driver
Company: Eminence Speaker
--Configuration--
No. of Drivers = 1
--Mechanical Parameters--
Fs = 35.9 Hz
Qms = 8.46
Vas = 164.5 liters
Cms = 0.08 mm/N
Mms = 236.6 g
Rms = 6.31 kg/s
Xmax = 15.2 mm
Xmech = 38 mm
P-Dia = 391.4 mm
Sd = 1217 sq.cm
P-Vd = 1.829 liters
--Electrical Parameters--
Qes = 0.39
Re = 5.86 ohms
Le = 1.54 mH
Z = 8 ohms
BL = 28.24 Tm
Pe = 1600 watts
--Electromech. Parameters--
Qts = 0.38
no = 1.882 %
1-W SPL = 94.89 dB
2.83-V SPL = 96.24 dB

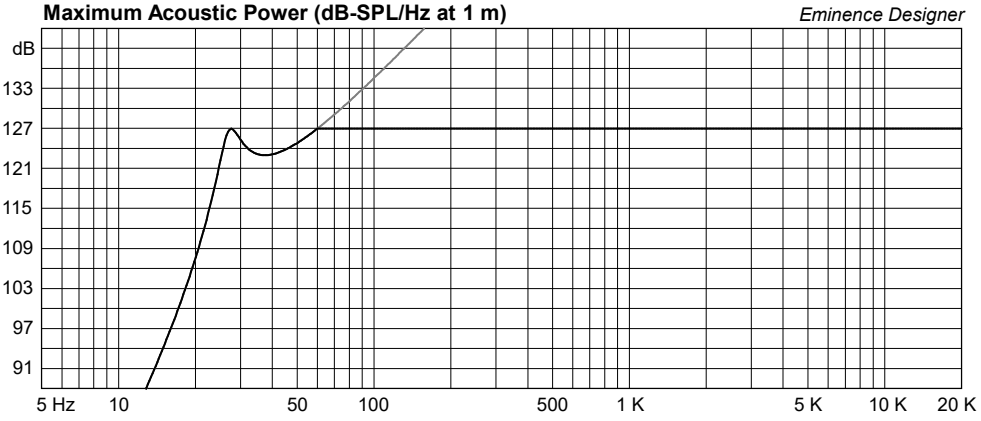
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



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

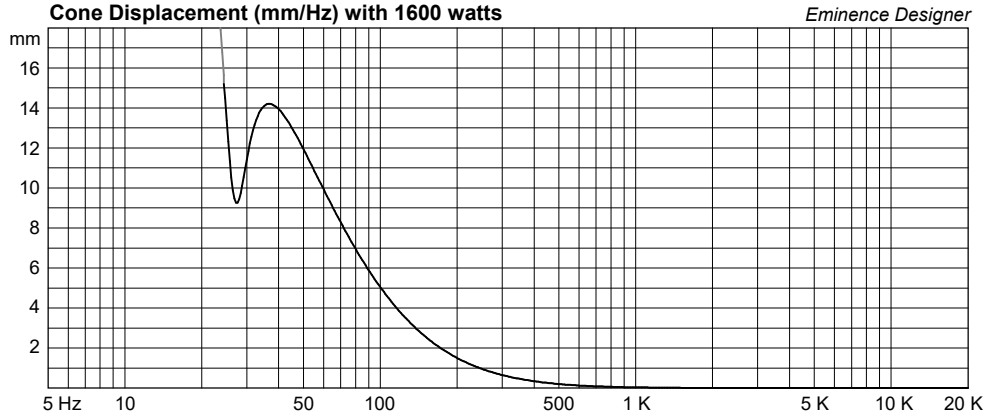


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



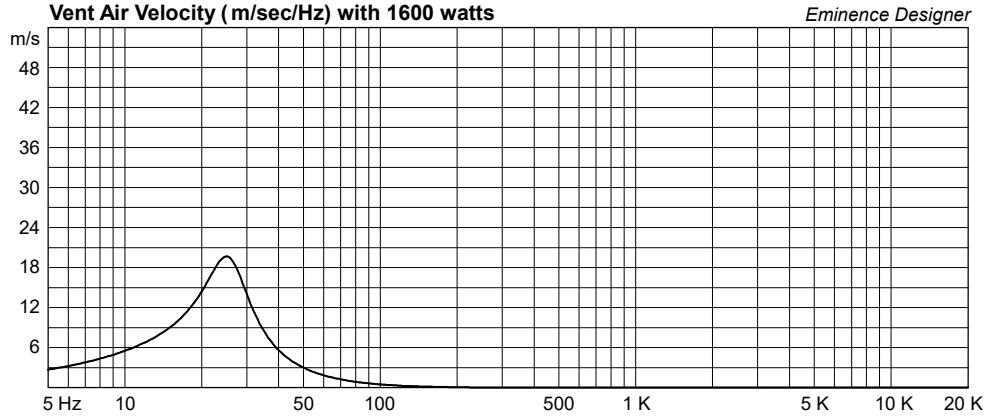
Cone Displacement (mm/Hz) with 1600 watts

Eminence Designer



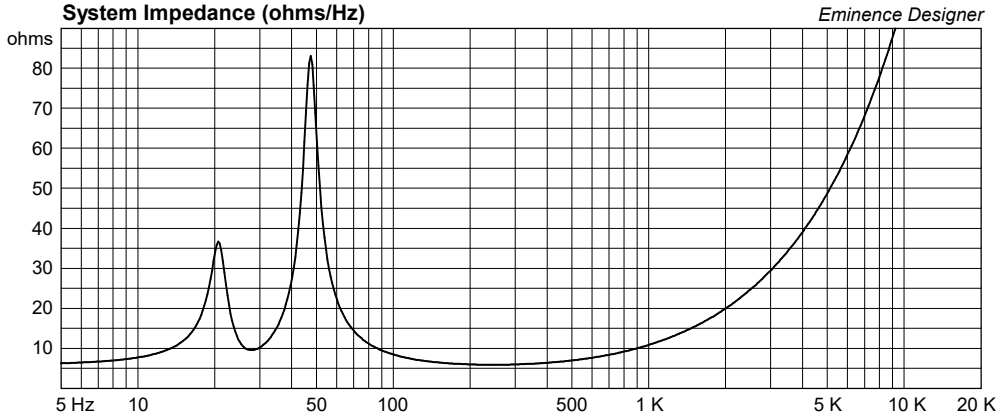
Vent Air Velocity (m/sec/Hz) with 1600 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



NSW4018-8 Dual 18 Sub

By Matt Marcum, Eminence Speaker LLC
Thermally limited to 3200W; F3 of 33Hz. Use steep high pass filter set to 27Hz
Place ports symmetrically about the woofer to reduce chance of cone rock.

EMINENCE

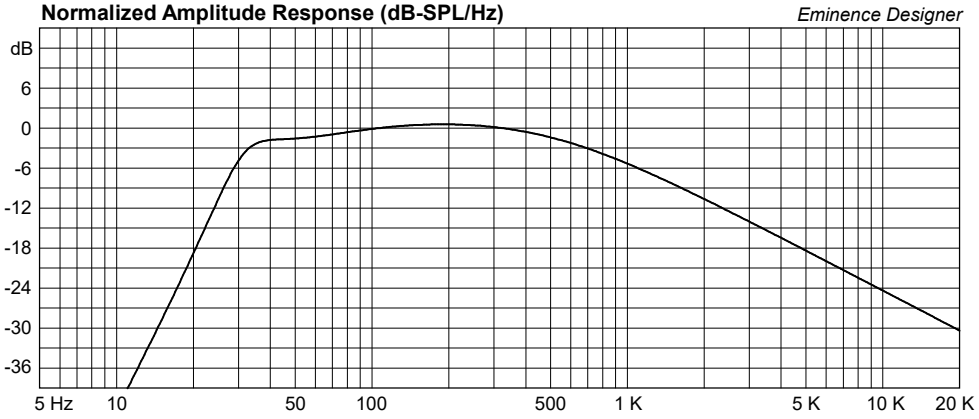
Box Properties

--Description--
Name: Vented Box 4
Type: Vented Box
Shape: Prism, square
Company: Eminence Speaker LLC
--Box Parameters--
Vb = 15 cu.ft
V(total) = 16.1 cu.ft
Fb = 33 Hz
QL = 6.679
F3 = 33.02 Hz
Fill = minimal
--Vents--
No. of Vents = 8
Vent shape = round
Vent ends = one flush
Dv = 3.999 in
Lv = 10.52 in

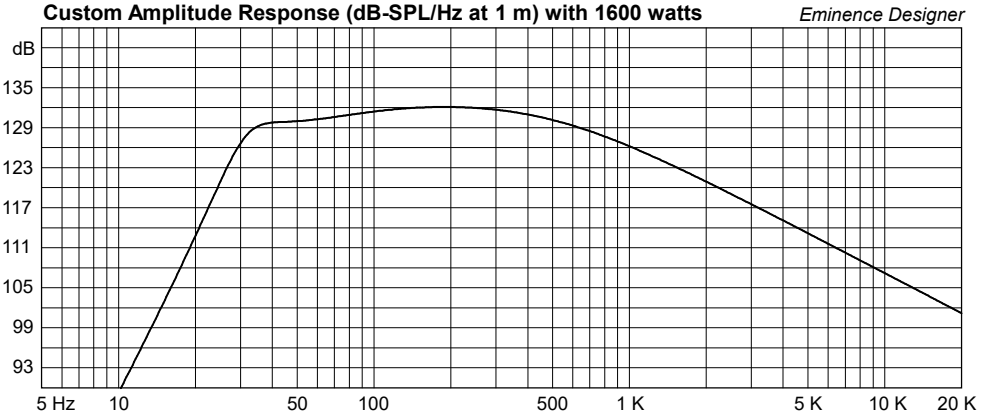
Driver Properties

--Description--
Name: NSW4018-8
Type: Standard one-way driver
Company: Eminence Speaker
--Configuration--
No. of Drivers =
Mounting = Standard
Wiring = Parallel
Drivers sum coherently = Yes
--Mechanical Parameters--
Fs = 35.9 Hz
Qms = 8.46
Vas = 164.5 liters 329
Cms = 0.08 mm/N 0.04
Mms = 236.6 g 473.2
Rms = 6.31 kg/s 12.62
Xmax = 15.2 mm
Xmech = 38 mm
P-Dia = 391.4 mm 553.5
Sd = 1217 sq.cm 2434
P-Vd = 1.829 liters 3.658
--Electrical Parameters--
Qes = 0.39
Re = 5.86 ohms 2.93
Le = 1.54 mH 0.77
Z = 8 ohms 4
BL = 28.24 Tm 28.32
Pe = 1600 watts 3200
--Electromech. Parameters--
Qts = 0.38
no = 1.882 % 3.763
1-W SPL = 94.89 dB 97.9
2.83-V SPL = 96.24 dB 102.3

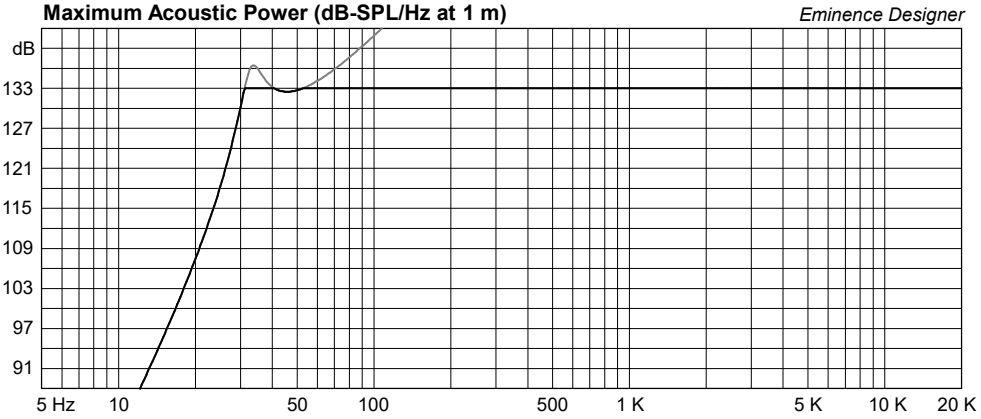
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



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

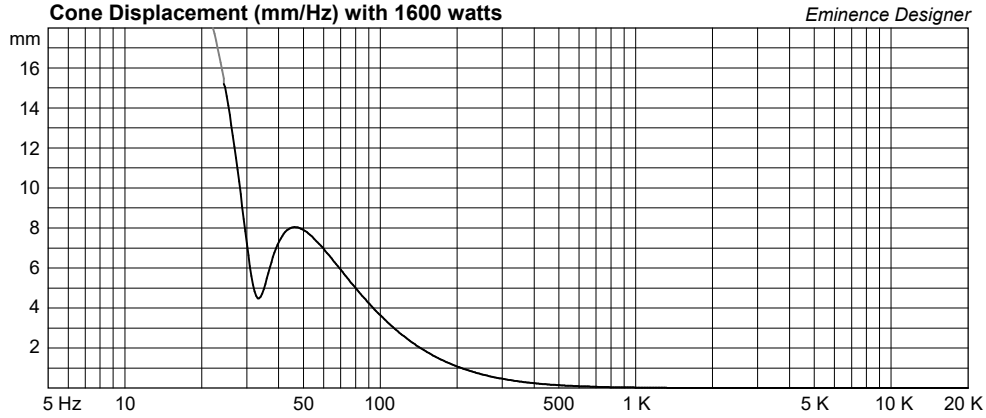


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



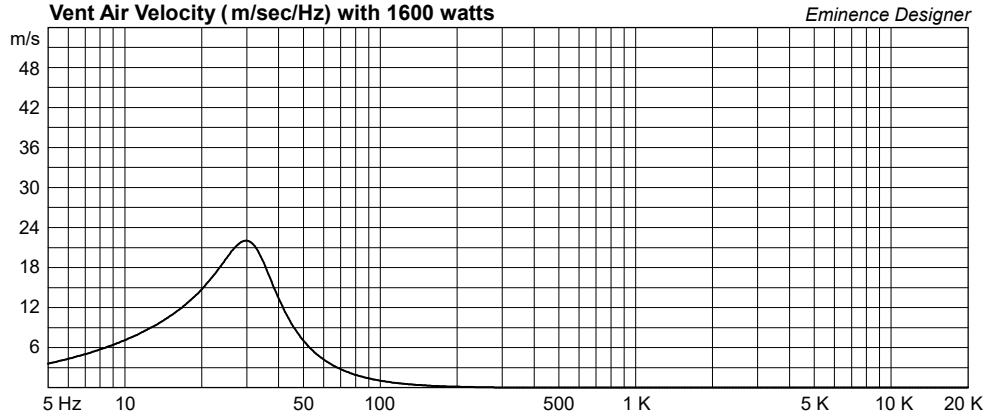
Cone Displacement (mm/Hz) with 1600 watts

Eminence Designer



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

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer