

Tour Grade Speaker

FSW4018-8

18" Tour Grade - American Muscle Made for the road, it's the most powerful ceramic 18" subwoofer Eminence has to offer. Long linear excursion with extremely high power handling contribute to top notch performance in small to large vented enclosures.

18" | 3200 W 8 Ω



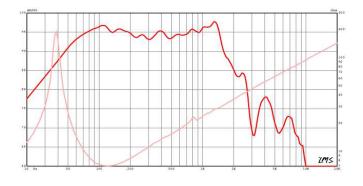
Midrange	Woofer		Sealed Box	Scoop Loading
Midbass	Subwoofer	Bass Guitar	Vented Box	Horn Loading

SPECIFICATION THIELE SMALL PARAMETERS* MOUNTING INFORMATION

Nominal Basket Diameter	18.0", 457 mm		Fs	38 Hz	Recommended Enclosure Volume	
Nominal Impedance*	8 Ω		Re	5.30 Ω	Sealed	N/A - liters,
Power Rating**			Le	1.50 mH		N/A - cu.ft.
Watts	(AES) 1	L600 W	Qms	22.89	Vented	99.11 - 339.80 liters,
Music Program	3	3200 W	Qes	0.39		3.50 - 12.00 cu.ft.
Peak Power	6	6400 W	Qts	0.39	Driver Volume Displaced	0.236 cu.ft.,6.67 liters
Resonance		38 Hz	Vas	5.08 cu.ft., 143.93 liters	Overall Diameter	18.13", 460.5 mm
Usable Frequency Range	28 Hz - 1	1.5 kHz	Vd	1716.0 cc	Baffle Hole Diameter	16.60", 421.6 mm
Sensitivity***	9	96.0 dB	Cms	0.07 mm/N	Front Sealing Gasket	Yes
Magnet Weight	1	146 oz.	BL	27.97 T-M	Rear Sealing Gasket	N/A
Gap Height	0.591", 15	5.0 mm	Mms	240 grams	Mounting Holes Diameter	0.28", 7.1 mm
Voice Coil Diameter	4.0", 10	.02 mm	EBP	98	Mounting Holes B.C.D.	17.32", 439.9 mm
Winding Height	1.22", 30.9	99 mm	Xmax	14.10 mm	Depth	9.42", 239.3 mm
Mirror Image Twin Spiders			Sd	1217.0 cm2	Net Weight	31.10 lbs., 14.11 kg
Water Resistant			Xlim	28.4 mm	Shipping Weight	33.60 lbs., 15.24 kg

MATERIALS OF CONSTRUCTION

I/O Copper Voice Coil	Die-cast Aluminum Basket		
Fiberglass Former	X5 Cone Pulp		
Ferrite Magnet	Advanced Polycotton Surround		
Undercut Plate Core	Y5 Dust Can Puln		







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: $2.83V/8\Omega$, $4V/16\Omega$. 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 custommade 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. $2.83V/8\Omega$, $4V/16\Omega$. 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.





FSW4018-8 Small Vented Box Design

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.



Box Properties

--Description--

Name: Vented Box 1 Type: Vented Box

Shape: Prism, square

Company: Eminence Speaker LLC

--Box Parameters--Vb = 4.6 cu.ft V(total) = 5.78 cu.ft

Fb = 40 Hz QL = 6.679 F3 = 40.3 Hz Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle Vent ends = one flush

Hv = 2 in Wv = 16 in Lv = 19.85 in

Driver Properties

--Description--

Name: FSW4018-8

Type: Standard one-way driver Company: Eminence Speaker LLC

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

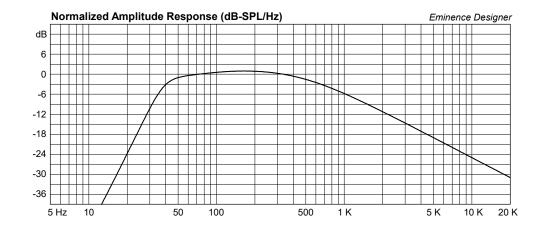
Fs = 38.5 Hz Qms = 22.89 Vas = 143.9 liters

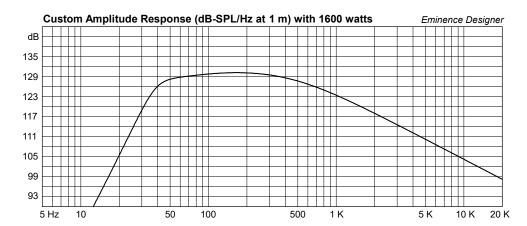
0.0684 mm/N Cms = Mms = 239.5 g Rms = 2.64 kg/s Xmax = 14.1 mm Xmech = 21 mm P-Dia = 393.7 mm Sd = 1217 sq.cm P-Vd = 1.716 liters

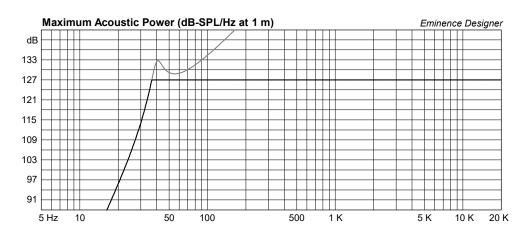
--Electrical Parameters--

Qes = 0.39
Re = 5.3 ohms
Le = 1.5 mH
Z = 8 ohms
BL = 27.97 Tm
Pe = 1600 watts
--Electromech. Parameters--

Qts = 0.383 no = 2.031 % 1-W SPL = 95.22 dB 2.83-V SPL = 97.01 dB

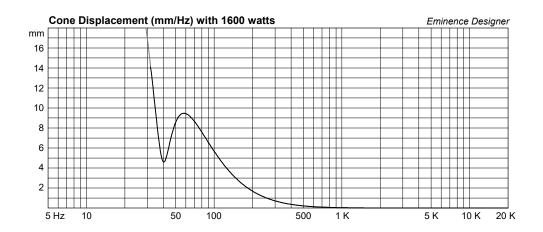


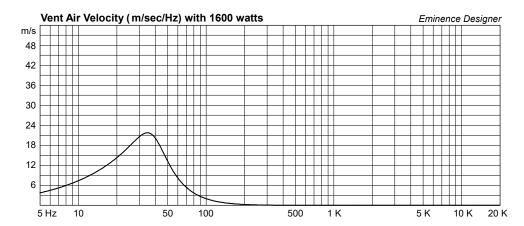


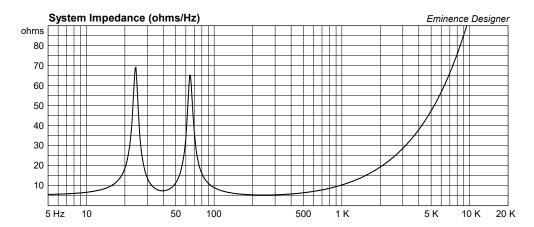


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FSW4018-8 Dual 18 Su

By Matt Marcum, Eminence Speaker LLC

Thermally limited to 1600W; F3 of 34Hz. Use steep high pass filter set to 29Hz Place ports symmetrically about the woofer to reduce chance of cone rock.



Box Properties

--Description--Name: Vented Box 4

Type: Vented Box 4
Shape: Prism, square

Company: Eminence Speaker LLC

minimal

--Box Parameters--Vb = 14 cu.ft V(total) = 16.35 cu.ft Fb = 34 Hz QL = 6.679 F3 = 34.1 Hz

--Vents--

Fill =

No. of Vents = 2 Vent shape = rectangle Vent ends = one flush

Hv = 3 in Wv = 24 in Lv = 18.16 in

Driver Properties

--Description--Name: FSW4018-8

Type: Standard one-way driver Company: Eminence Speaker LLC

--Configuration-No. of Drivers =

Mounting = Standard Wiring = Parallel

Drivers sum coherently = Yes --Mechanical Parameters--

Fs = 38.5 Hz Qms = 22.89

Vas = 143.9 liters 287.9 Cms = 0.0684 mm/N 0.0342 Mms = 239.5 g 479

Rms = 2.64 kg/s 5.28 Xmax = 14.1 mm

Xmech = 21 mm P-Dia = 393.7 mm 556.8 Sd = 1217 sq.cm 2434

P-Vd = 1.716 liters 3.432 --Electrical Parameters--

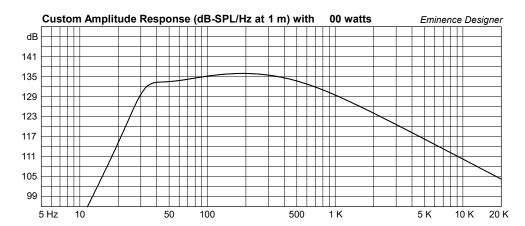
Qes = 0.39

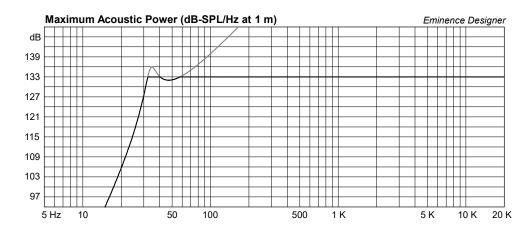
Re = 5.3 ohms 2.65 Le = 1.5 mH 0.75 Z = 8 ohms 4 BL = 27.97 Tm 28.06 Pe = 1600 watts 3200 --Electromech. Parameters--

Qts = 0.383

no = 2.031 % 4.062 1-W SPL = 95.22 dB 98.23 2.83-V SPL = 97.01 dB 103

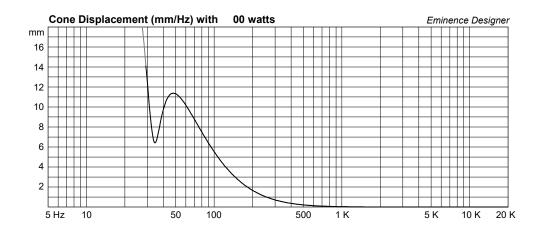


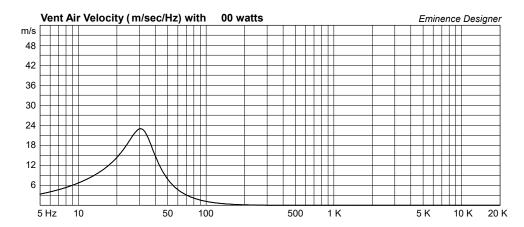


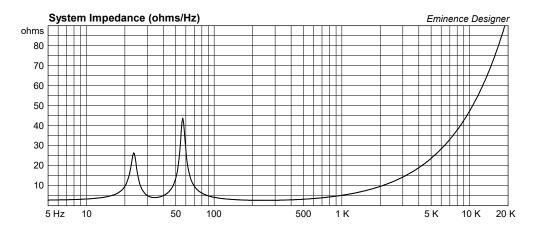


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FSW4018-8 Large Vented Box Design

By Matt Marcum, Eminence Speaker LLC

Thermally limited to 1600W; F3 of 28Hz. Use steep high pass filter set to 27Hz Place ports symmetrically about the woofer to reduce chance of cone rock.



Box Properties

--Description--

Name: Vented Box 3
Type: Vented Box

Shape: Prism, square

Company: Eminence Speaker LLC

minimal

--Box Parameters--Vb = 12 cu.ft V(total) = 13.83 cu.ft Fb = 28 Hz QL = 6.679 F3 = 27.83 Hz

--Vents--

Fill =

No. of Vents = 2

Vent shape = rectangle Vent ends = one flush

Hv = 2 in Wv = 24 inLv = 23.6 in

Driver Properties

--Description--

Name: FSW4018-8

Type: Standard one-way driver Company: Eminence Speaker LLC

--Configuration--

No. of Drivers = 1

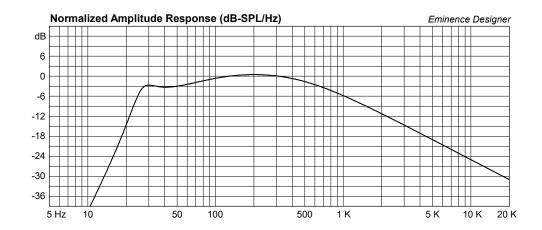
--Mechanical Parameters--

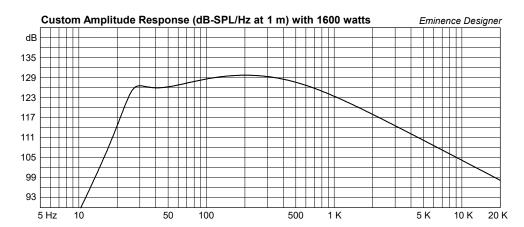
Fs = 38.5 Hz Qms = 22.89 143.9 liters Vas = 0.0684 mm/N Cms = Mms = 239.5 g Rms = 2.64 kg/s Xmax = 14.1 mm Xmech = 21 mm P-Dia = 393.7 mm Sd = 1217 sq.cm

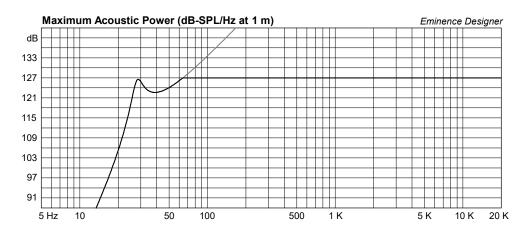
P-Vd = 1.716 liters
--Electrical Parameters--

Qes = 0.39
Re = 5.3 ohms
Le = 1.5 mH
Z = 8 ohms
BL = 27.97 Tm
Pe = 1600 watts
--Electromech. Parameters--

Qts = 0.383 no = 2.031 % 1-W SPL = 95.22 dB 2.83-V SPL = 97.01 dB

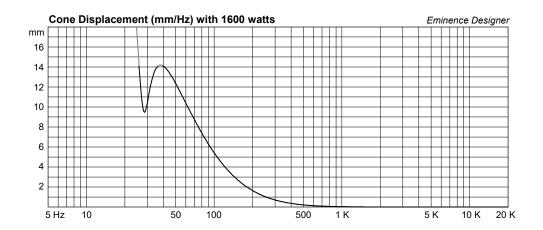


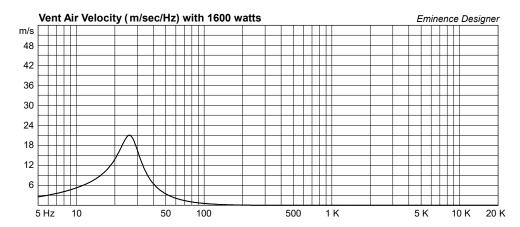


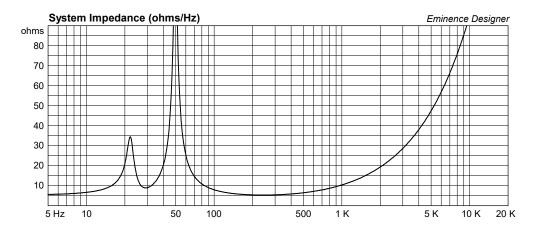


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FSW4018-8 Medium Vented Box Design

By Matt Marcum, Eminence Speaker LLC

Thermally limited to 1600W; F3 of 34Hz. Use steep high pass filter set to 30Hz Place ports symmetrically about the woofer to reduce chance of cone rock.



Box Properties

--Description--

Name: Vented Box 2
Type: Vented Box
Shape: Briggs aggress

Shape: Prism, square

Company: Eminence Speaker LLC

--Box Parameters--Vb = 7 cu.ft V(total) = 8.304 cu.ft Fb = 34 Hz QL = 6.679 F3 = 34.05 Hz Fill = minimal

--Vents--

No. of Vents = 2 Vent shape = rectangle Vent ends = one flush

Hv = 2 in Wv = 18 in Lv = 20.29 in

Driver Properties

--Description--

Name: FSW4018-8

Type: Standard one-way driver Company: Eminence Speaker LLC

--Configuration--

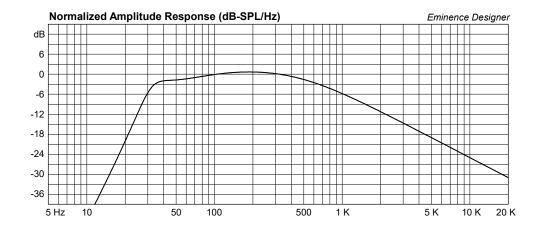
No. of Drivers = 1

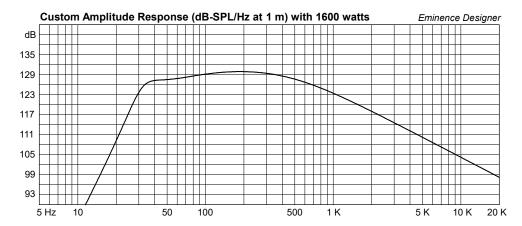
--Mechanical Parameters--

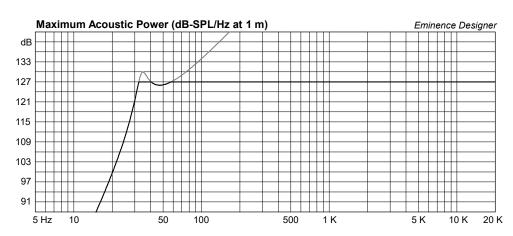
Fs = 38.5 Hz Qms = 22.89 143.9 liters Vas = 0.0684 mm/N Cms = Mms = 239.5 g Rms = 2.64 kg/s Xmax = 14.1 mm Xmech = 21 mm P-Dia = 393.7 mm Sd = 1217 sq.cm P-Vd = 1.716 liters --Electrical Parameters--

Qes = 0.39
Re = 5.3 ohms
Le = 1.5 mH
Z = 8 ohms
BL = 27.97 Tm
Pe = 1600 watts
--Electromech. Parameters--

Qts = 0.383 no = 2.031 % 1-W SPL = 95.22 dB 2.83-V SPL = 97.01 dB







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