

AMERICAN STANDARD SERIES

DELTA-15LFA

Low frequency woofer for pro audio as a mid-bass or floor monitor in a sealed enclosure. Also suitable as a woofer in vented, bass guitar or PA enclosures.



SPECIFICATION

THIELE & SMALL PARAMETERS*

MOUNTING INFORMATION

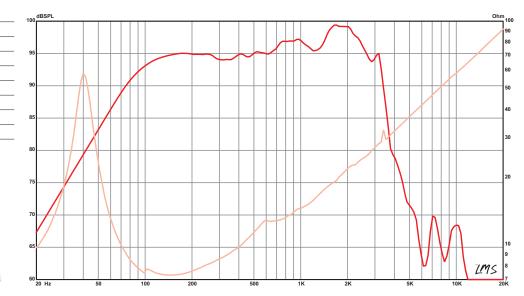
Nominal Basket Diameter	15.0", 381 mm	Fs	39 Hz	Recommended Enclosure Vo	olume
Nominal Impedance*	8 Ω	Re	6.11 Ω	Sealed	36.80-42.50 liters,
Power Rating**		Le	1.37 mH		1.30–1.50 cu.ft.
Watts	500 W	Qms	6.30	Vented	85.00–167.00 liters,
Music Program	1000 W	Qes	0.52		3.00–5.90 cu.ft.
Resonance	39 Hz	Qts	0.48	Driver Volume Displaced	0.128 cu.ft., 3.62 liters
Usable Frequency Range	42 Hz – 3.2 kHz	Vas	8.51 cu.ft., 241.00 liters	Overall Diameter	15.15", 384.8 mm
Sensitivity***	96.0 dB	Vd	419.0 cc	Baffle Hole Diameter	13.87″, 352.3 mm
Magnet Weight	56 oz.	Cms	0.23 mm/N	Front Sealing Gasket	Yes
Gap Height	.375", 9.5 mm	BL	14.60 T-M	Rear Sealing Gasket	Yes
Voice Coil Diameter	2.5", 64 mm	Mms	75 grams	Mounting Holes Diameter	0.25″, 6.4 mm
		EBP	75	Mounting Holes B.C.D.	14.56", 369.8 mm
		Xmax	4.80 mm	Depth	6.30", 160.0 mm
		Sd	873.0 cm2	Net Weight	12.80 lbs , 5.81 kg
		Xlim	16.5 mm	Shipping Weight	14.80 lbs , 6.71 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Vented and extended core
Pressed steel basket
Paper cone
Cloth cone edge
Solid composition paper dust cap



FREQUENCY RESPONSE & IMPEDANCE CURVE*





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.
- ** Multiple units exceed published ratings evaluated under EIA 426A specification while tested in a free-air, non-temperature-controlled environment.
- *** 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-temperaturecontrolled 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.







Delta15LFA Larger Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 175 Watts; F3 of 42 Hz. Use a steep High Pass filter at 35 Hz to protect woofer from overexcursion.

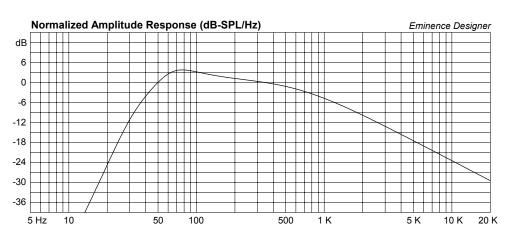
Box Properties

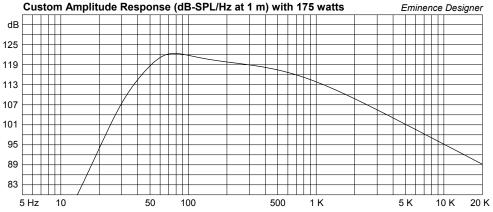
--Description--Name: Type: Vented Box Shape: Prism, square (optimum) --Box Parameters--Vb =5.5 cu.ft V(total) = 5.84 cu.ft Fb = 45.97 Hz 7 QL = F3 = 42.29 Hz Fill = minimal --Vents--No. of Vents = 4Vent shape = round Vent ends = one flush Dv = 4 in 6.465 in Lv =

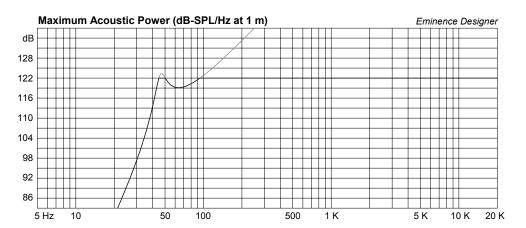
Driver Properties

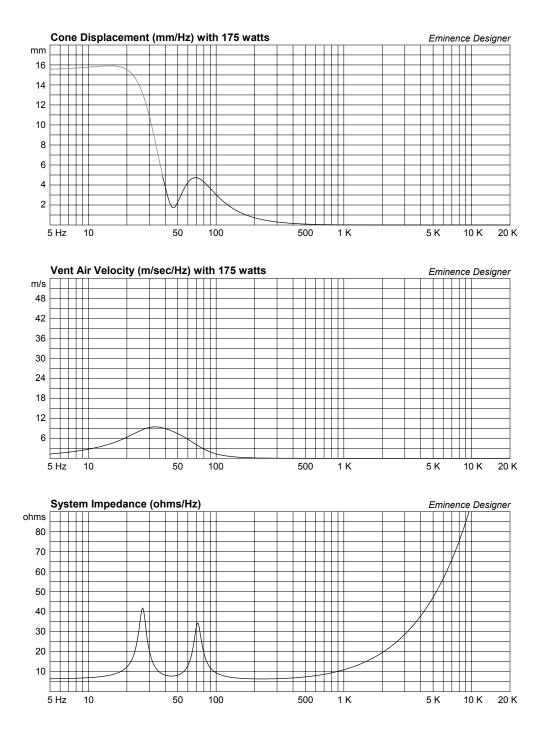
--Description--Name: Delta-15LF (8 ohm) Type: Standard one-way driver Company: Eminence Speaker LLC Comment: Revised NOV 2005 Piston: Paper cone. Suspension: M-roll cloth surround. Dust Cap: Solid paper dust cap. Frame: Pressed steel basket. Voice Coil: 2.5 inch (63.5 mm) copper. Magnet: 56 oz ferrite magnet. --Configuration--No. of Drivers = 1

Driver Parameters		
Fs =	41 Hz	
Qms =	6.65	
Vas =	186.1 liters	
Xmax =	4.8 mm	
Sd =	856.3 sq.cm	
Qes =	0.64	
Re =	6.3 ohms	
Le =	1.49 mH	
Z =	8 ohms	
Pe =	500 watts	









Delta15LFA Med Vented Cabinet

By McJerry, Eminence Speaker LLC Displacement Limited to 250 Watts; F3 of 49 Hz. Use a 40 Hz High Pass Filter.

Box Properties

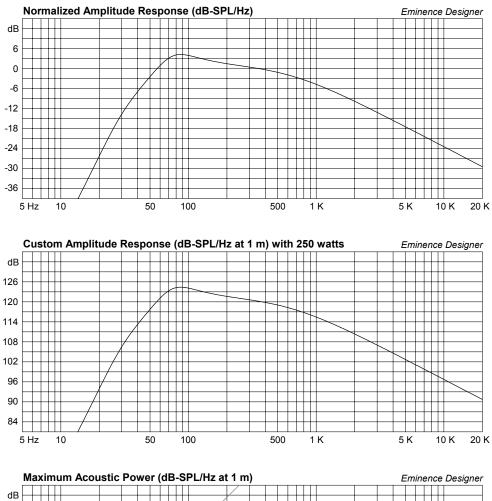
--Description--Name: Type: Vented Box Shape: Prism, square (optimum) --Box Parameters--Vb = 4.25 cu.ft V(total) = 4.612 cu.ft Fb = 50.89 Hz QL = 5 F3 = 48.57 Hz Fill = minimal --Vents--No. of Vents = 4 Vent shape = round Vent ends = one flush Dv = 4 in Lv = 7.145 in

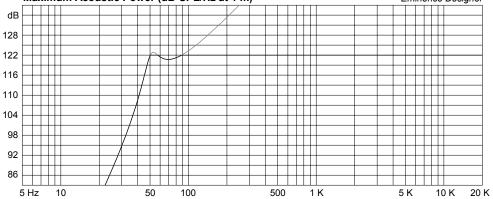
Driver Properties

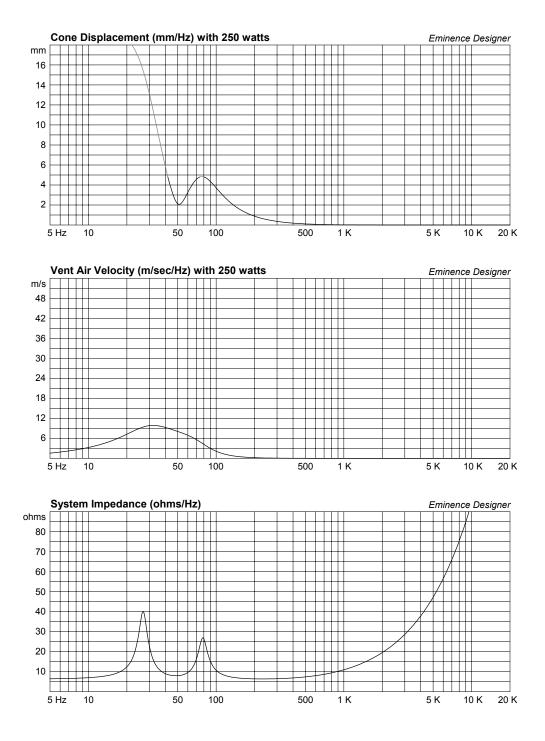
--Description--Name: Delta-15LF (8 ohm) Type: Standard one-way driver Company: Eminence Speaker LLC Comment: Revised NOV 2005 Piston: Paper cone. Suspension: M-roll cloth surround. Dust Cap: Solid paper dust cap. Frame: Pressed steel basket. Voice Coil: 2.5 inch (63.5 mm) copper. Magnet: 56 oz ferrite magnet. --Configuration--

No. of Drivers = 1 ----

Driver Parameters		
Fs =	41 Hz	
Qms =	6.65	
Vas =	186.1 liters	
Xmax =	4.8 mm	
Sd =	856.3 sq.cm	
Qes =	0.64	
Re =	6.3 ohms	
Le =	1.49 mH	
Z =	8 ohms	
Pe =	500 watts	







Delta15LFA Small Sealed Mid/Hi Sat or Floor Monitor

By McJerry, Eminence Speaker LLC Displacement Limited to 350 Watts. Use a steep High Pass filter set to 100 Hz or higher. Not for Full Range Use.

Box Properties

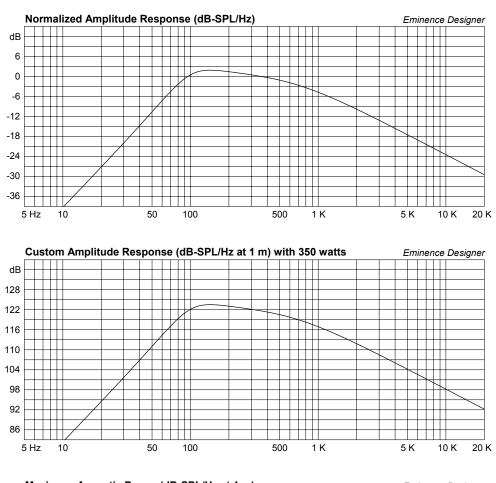
--Description--Name: Type: Closed Box Shape: Prism, square --Box Parameters--Vb =1.25 cu.ft V(total) = 1.378 cu.ft Qtc = 1.007 QL = 19.9 F3 = 76.54 Hz Fill = heavy

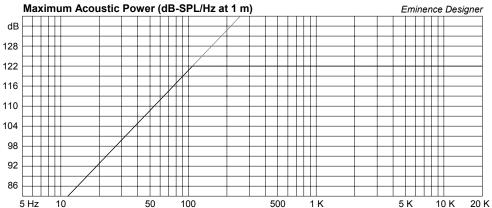
Driver Properties

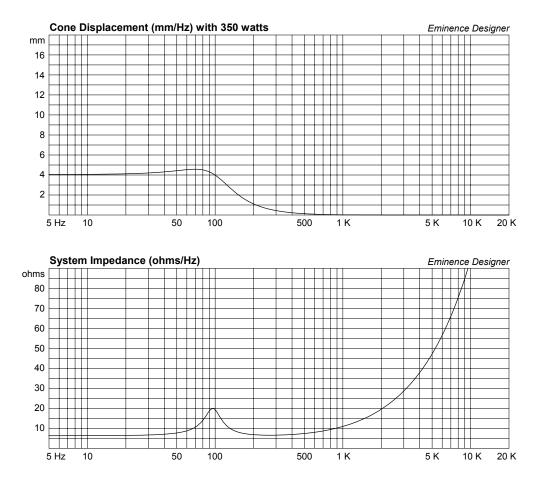
--Description---Name: Delta-15LF (8 ohm) Type: Standard one-way driver Company: Eminence Speaker LLC Comment: Revised NOV 2005 Piston: Paper cone. Suspension: M-roll cloth surround. Dust Cap: Solid paper dust cap. Frame: Pressed steel basket. Voice Coil: 2.5 inch (63.5 mm) copper. Magnet: 56 oz ferrite magnet. --Configuration---No. of Drivers = 1

Driver	Parameters
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DIIVEL FalaIIIELEIS		
Fs =	41 Hz	
Qms =	6.65	
Vas =	186.1 liters	
Xmax =	4.8 mm	
Sd =	856.3 sq.cm	
Qes =	0.64	
Re =	6.3 ohms	
Le =	1.49 mH	
Z =	8 ohms	
Pe =	500 watts	







Delta15LFA Small Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 325 Watts; F3 of 56 Hz. Use a steep High Pass filter set to 50 Hz.

Box Properties

--Description--Name: Type: Vented Box Shape: Prism, square (optimum) --Box Parameters--Vb =2.95 cu.ft V(total) = 3.146 cu.ft Fb = 58.77 Hz 7 QL = F3 = 56.09 Hz Fill = minimal --Vents--No. of Vents = 4Vent shape = round Vent ends = one flush Dv = 3 in Lv = 3.536 in

Driver Properties

--Description--Name: Delta-15LF (8 ohm) Type: Standard one-way driver Company: Eminence Speaker LLC Comment: Revised NOV 2005 Piston: Paper cone. Suspension: M-roll cloth surround. Dust Cap: Solid paper dust cap. Frame: Pressed steel basket. Voice Coil: 2.5 inch (63.5 mm) copper. Magnet: 56 oz ferrite magnet. --Configuration--No. of Drivers = 1 Drivers Parameters

Driver Parameters		
Fs =	41 Hz	
Qms =	6.65	
Vas =	186.1 liters	
Xmax =	4.8 mm	
Sd =	856.3 sq.cm	
Qes =	0.64	
Re =	6.3 ohms	
Le =	1.49 mH	
Z =	8 ohms	
Pe =	500 watts	

