

AMERICAN STANDARD SERIES

BETA-15A

Recommended for professional audio as a woofer in sealed and vented enclosures.



SPECIFICATION

THIELE & SMALL PARAMETERS*

MOUNTING INFORMATION

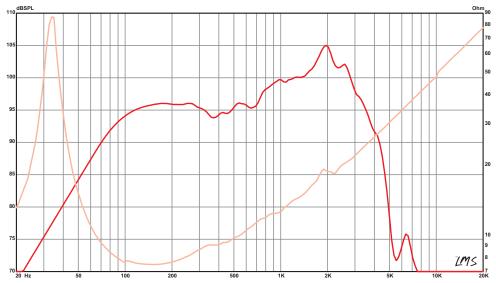
Nominal Basket Diameter	15.0", 381 mm	Fs	35 Hz	Recommended Enclosure Volume	
Nominal Impedance*	8 Ω	Re	6.32 Ω	Sealed	45.00-62.00 liters,
Power Rating**		Le	1.10 mH		1.60-2.20 cu.ft.
Watts	300 W	Qms	8.10	Vented	99.00-175.60 liters,
Music Program	600 W	Qes	0.63		3.50-6.20 cu.ft.
Resonance	35 Hz	Qts	0.58	Driver Volume Displaced	0.118 cu.ft., 3.33 liters
Usable Frequency Range	45 Hz – 3.7 kHz	Vas	11.82 cu.ft., 334.60 liters	Overall Diameter	15.15", 384.8 mm
Sensitivity***	98.2 dB	Vd	330.0 cc	Baffle Hole Diameter	13.87", 352.3 mm
Magnet Weight	34 oz.	Cms	0.35 mm/N	Front Sealing Gasket	Yes
Gap Height	.312", 7.9 mm	BL	11.50 T-M	Rear Sealing Gasket	Yes
Voice Coil Diameter	2.0", 51 mm	Mms	60 grams	Mounting Holes Diameter	0.25", 6.4 mm
		EBP	56	Mounting Holes B.C.D.	14.56", 369.8 mm
		Xmax	4.00 mm	Depth	6.05", 153.7 mm
		Sd	823.7 cm2	Net Weight	8.80 lbs , 3.99 kg
		Xlim	11.6 mm	Shipping Weight	10.80 lbs , 4.90 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: $2.83V/8\Omega$, $4V/16\Omega$. 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.





Beta15A Large Vented Woofer Enclosure

By McJerry, Eminence Speaker LLC Displacement Limited to 100 Watts; use above 40 Hz. Will require EQ for flat playback.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--Vb = 6 cu.ft

V(total) = 6.133 cu.ft Fb = 47.79 Hz

QL = 7

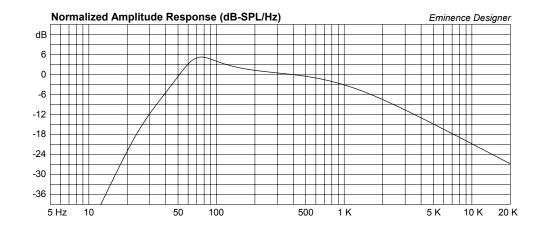
F3 = 44.78 Hz Fill = minimal

--Vents--

No. of Vents = 2 Vent shape = round

Vent ends = one flush Dv = 4.25 in

Dv = 4.25 in Lv = 0.75 in



Driver Properties

--Description--Name: Beta-15

Type: Standard one-way driver Company: Eminence Speaker LLC Comment: Revised OCT 2005

Piston: Ribbed paper cone. Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap⁹⁹

Frame: Pressed steel basket.

Voice Coil: 2 inch (50.8 mm) coated copper.

Magnet: 38 oz ferrite magnet.

--Configuration--

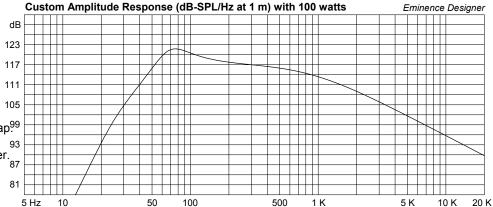
No. of Drivers = 1

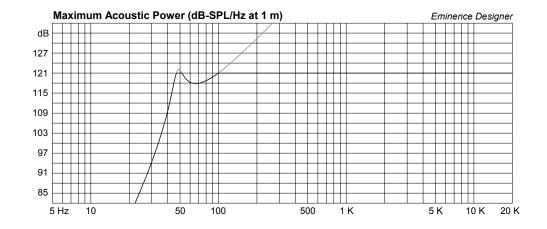
Pe =

--Driver Parameters--

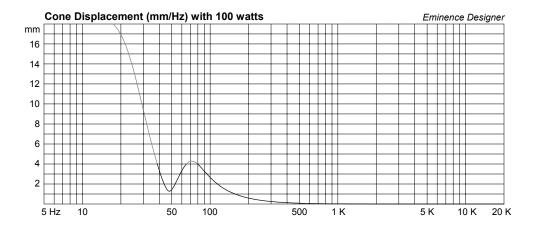
Fs= 35 Hz Qms = 8.1 334.6 liters Vas = Xmax = 4 mm Sd = 823.7 sq.cm Qes = 0.63 6.32 ohms Re = Le = 1.1 mH Z = 8 ohms

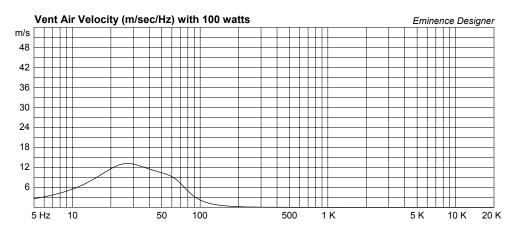
350 watts

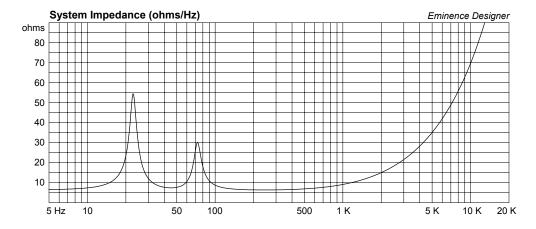




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Beta15A Sealed Semi-Full Range Enclosure

By McJerry, Eminence Speaker LLC
Displacement Limited to 175 Watts; use above 70 Hz.
Good Floor Monitor or as a general voice PA cabinet.

Box Properties

--Description--

Name:

Type: Closed Box
Shape: Prism, square
--Box Parameters-Vb = 1.75 cu.ft
V(total) = 1.869 cu.ft
Qtc = 1.018
QL = 8.85
F3 = 70.73 Hz
Fill = heavy

Driver Properties

--Description--Name: Beta-15

Type: Standard one-way driver Company: Eminence Speaker LLC Comment: Revised OCT 2005 Piston: Ribbed paper cone. Suspension: Cloth surround. Dust Cap: Solid paper dust cap. Frame: Pressed steel basket.

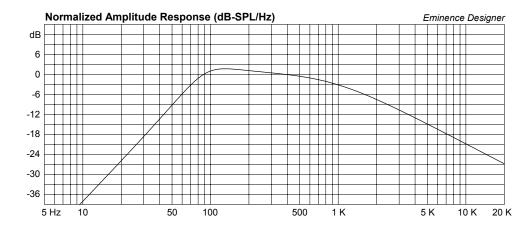
Voice Coil: 2 inch (50.8 mm) coated copper.

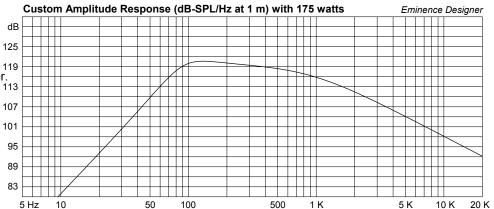
Magnet: 38 oz ferrite magnet.

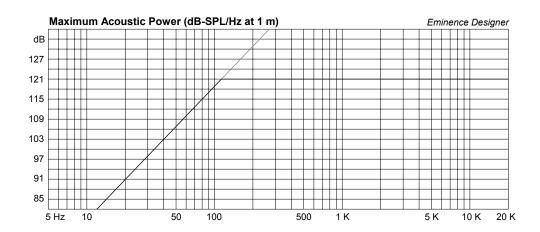
--Configuration-No. of Drivers = 1
--Driver Parameters-Fs = 35 Hz
Qms = 8.1

Vas = 334.6 liters Xmax = 4 mm Sd = 823.7 sq.cm Qes = 0.63

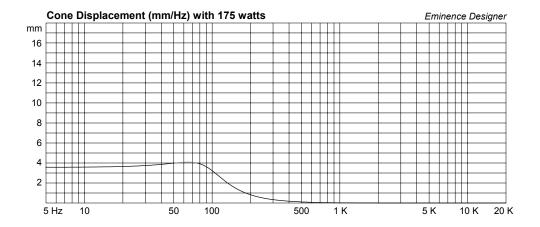
Re = 6.32 ohms Le = 1.1 mH Z = 8 ohms Pe = 350 watts

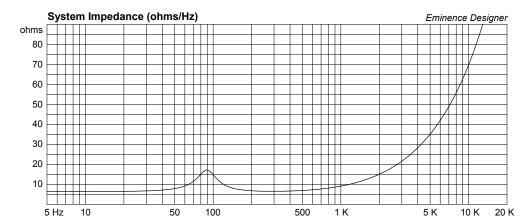






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Beta15A Med Vented Woofer Enclosure

By McJerry, Eminence Speaker LLC Displacement Limited to 200 Watts; use above 60 Hz. Will require EQ for flat playback.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--Vb = 3.58 cu.ft

V(total) = 3.715 cu.ft Fb = 65 Hz

QL =

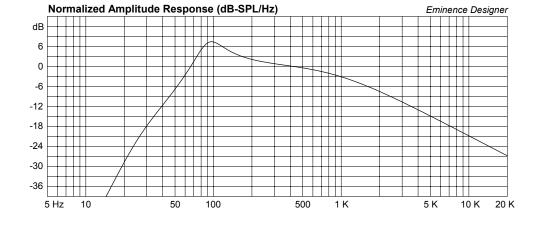
F3 = 58.83 Hz Fill = minimal

--Vents--

No. of Vents = 2Vent shape = round

Vent ends = one flush

4.64 in Dv = Lv = 0.75 in



Driver Properties

--Description--Name: Beta-15

Type: Standard one-way driver Company: Eminence Speaker LLC Comment: Revised OCT 2005 Piston: Ribbed paper cone. Suspension: Cloth surround. Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket. Voice Coil: 2 inch (50.8 mm) coated copper.

Magnet: 38 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

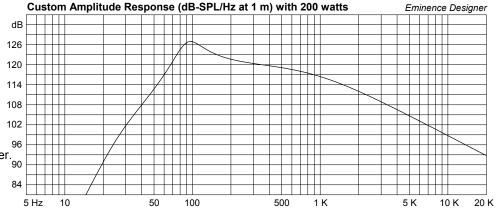
--Driver Parameters--

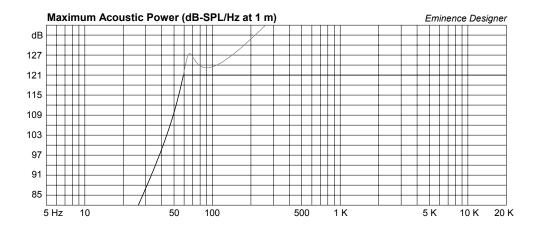
Fs= 35 Hz Qms = 8.1 334.6 liters Vas = Xmax = 4 mm Sd = 823.7 sq.cm Qes = 0.63

6.32 ohms Re = Le = 1.1 mH Z = 8 ohms

350 watts

Pe =





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