# Delta15A Small Vented Cab.; High Pwr Sat or Low Pwr Semi FR

By McJery, Eminence Speaker LLC

High Power Mid-High/Sat: 400 Watt Thermal limit; use only 150 Hz and up. Low Power Semi-Full Range: 125 Displacement Limit; high pass at 55 Hz.

#### **Box Properties**

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--Vb = 2.85 cu.ft V(total) = 2.996 cu.ftFb =75 Hz QL = 70 Hz F3 = Fill = minimal

--Vents--

No. of Vents = 2Vent shape = round Vent ends = one flush Dv = 4.889 in 0.75 in Lv =

## **Driver Properties**

--Description--

Name: Delta-15 (8 ohm) Type: Standard one-way driver Company: Eminence Speaker LLC Comment: Revised NOV 2005 Piston: Ribbed paper cone. Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) AL Wire. Kapton former.

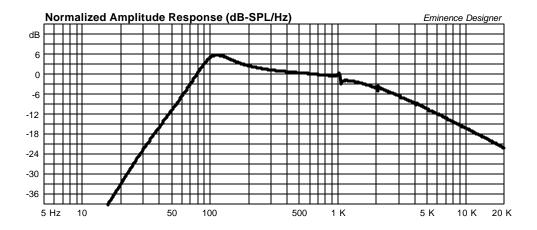
Magnet: 56 oz ferrite magnet.

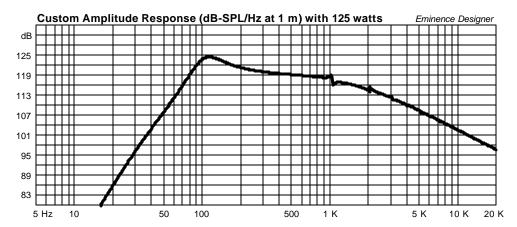
--Configuration--

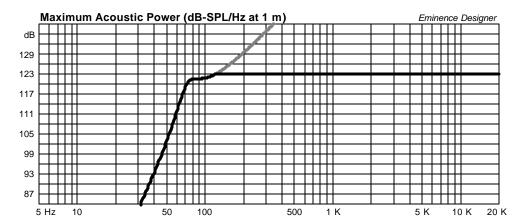
### No. of Drivers = 1

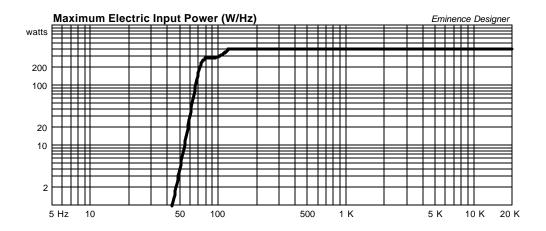
Mechanical Parameters		Electrical Parameters	
Fs =	40 Hz	Qes =	0.57
Qms =	8	Re =	6.3 ohms
Vas =	270.7 liters	Le =	0.64 mH
Cms =	0.255 mm/N	Z =	8 ohms
Mms =	62.13 g	BL =	13.2 Tm
Rms =	1.95 kg/s	Pe =	400 watts
Xmax =	2.7 mm	Electrom	ech. Parameters
Xmech =	11.1 mm	Qts =	0.53
P-Dia =	331.8 mm	no =	2.931 %
Sd =	864.6 sq.cm	1-W SPL =	96.82 dB
P-Vd =	0.233 liters	2.83-V SPI	_ = 97.85 dB

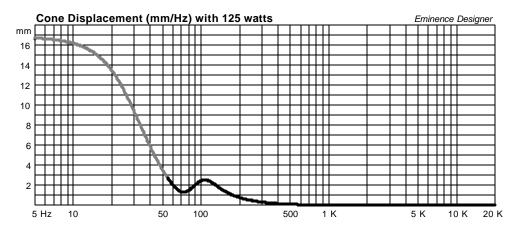
File: Delta15ASmallVentedBox125Watts.bb6

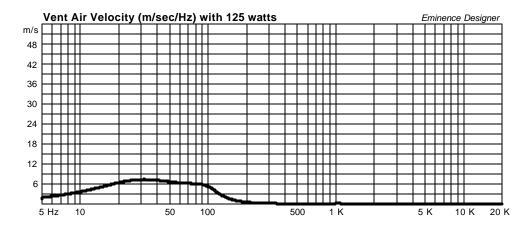


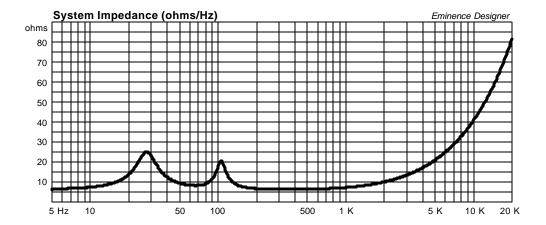


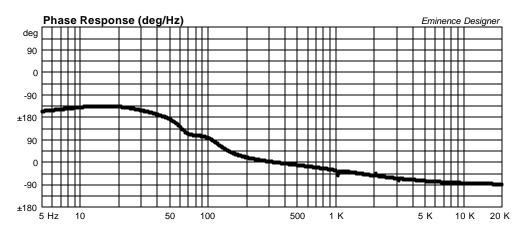


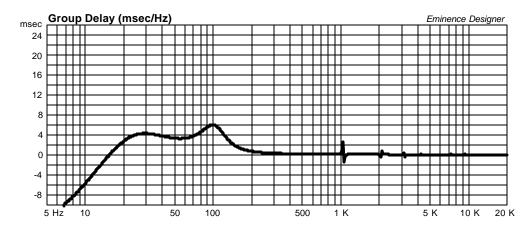












# Delta15A Med Vented Cab.; Low Power Full Range PA Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 100 Watts; use a steep high pass at 45 Hz to protect woofer from overexcursion.

#### **Box Properties**

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters-Vb = 4 cu.ft
V(total) = 4.148 cu.ft
Fb = 65 Hz
QL = 7
F3 = 61.09 Hz
Fill = minimal

--Vents--

No. of Vents = 2 Vent shape = round Vent ends = one flush Dv = 5.126 in Lv = 0.75 in

## **Driver Properties**

--Description--

Name: Delta-15 (8 ohm)
Type: Standard one-way driver
Company: Eminence Speaker LLC
Comment: Revised NOV 2005
Piston: Ribbed paper cone.
Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) AL Wire. Kapton former.

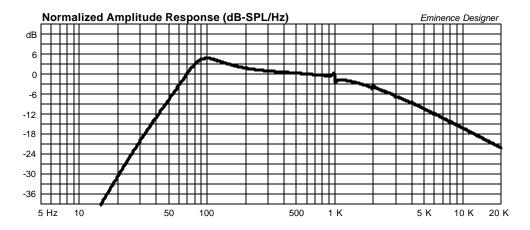
Magnet: 56 oz ferrite magnet.

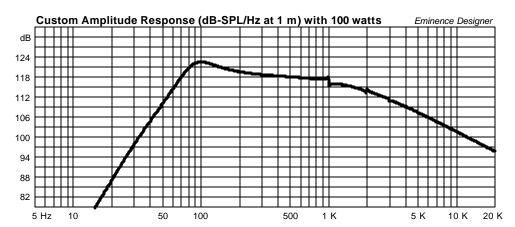
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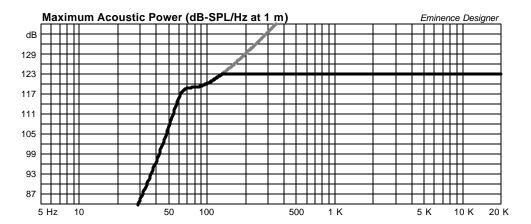
### No. of Drivers = 1

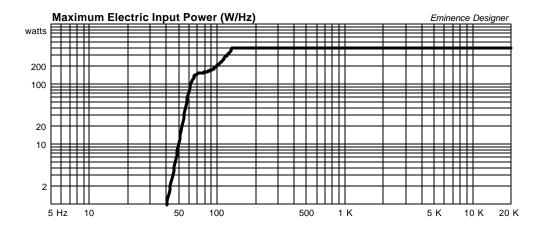
Mechanical Parameters		Electrical Parameters	
40 Hz	Qes =	0.57	
8	Re =	6.3 ohms	
270.7 liters	Le =	0.64 mH	
0.255 mm/N	Z =	8 ohms	
62.13 g	BL =	13.2 Tm	
1.95 kg/s	Pe =	400 watts	
2.7 mm	Electrome	ech. Parameters	
11.1 mm	Qts =	0.53	
331.8 mm	no =	2.931 %	
864.6 sq.cm	1-W SPL =	96.82 dB	
0.233 liters	2.83-V SPL	. = 97.85 dB	
	40 Hz 8 270.7 liters 0.255 mm/N 62.13 g 1.95 kg/s 2.7 mm 11.1 mm 331.8 mm 864.6 sq.cm	40 Hz       Qes =         8       Re =         270.7 liters       Le =         0.255 mm/N       Z =         62.13 g       BL =         1.95 kg/s       Pe =         2.7 mm      Electrome         11.1 mm       Qts =         331.8 mm       no =         864.6 sq.cm       1-W SPL =	

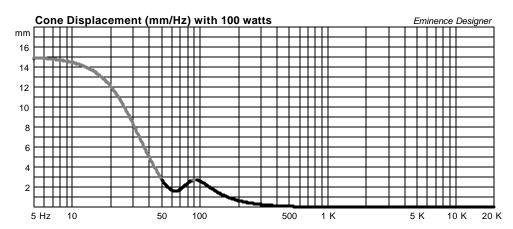
File: Delta15AMedVentedBox100Watts.bb6

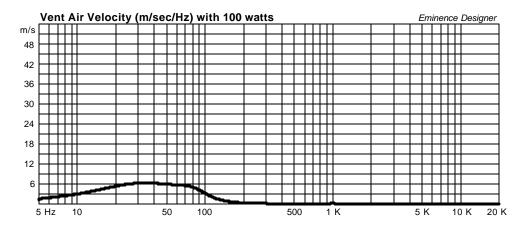


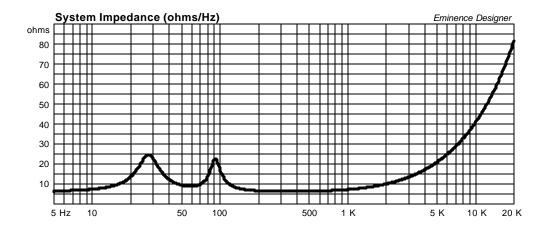


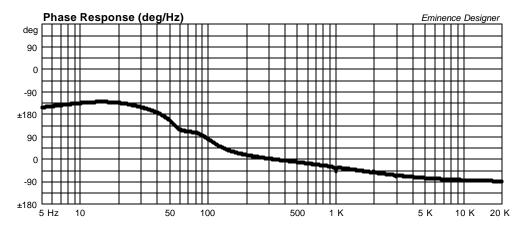


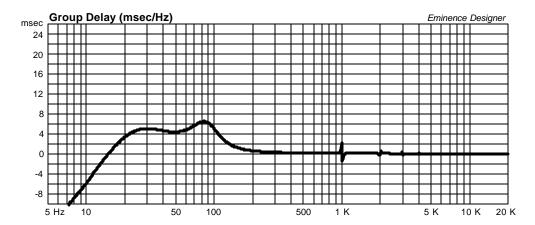












# Delta15A Larger Vented Cab.; Low Pwr Fuller Range PA

By McJerry, Eminence Speaker LLC

Displacement Limited to 50 Watts; use a steep high pass filter set to 35 Hz

or higher 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) = 5.641 cu.ft Fb = 49.22 Hz

QL = 7 F3 = 53.27 HzFill = minimal

--Vents--

No. of Vents = 2 Vent shape = round Vent ends = one flush Dv = 4.146 in Lv = 0.75 in

## **Driver Properties**

--Description--

Name: Delta-15 (8 ohm)
Type: Standard one-way driver
Company: Eminence Speaker LLC
Comment: Revised NOV 2005
Piston: Ribbed paper cone.
Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) AL Wire. Kapton former.

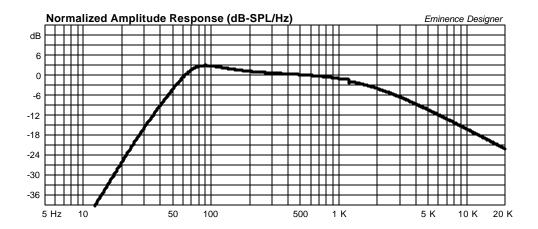
Magnet: 56 oz ferrite magnet.

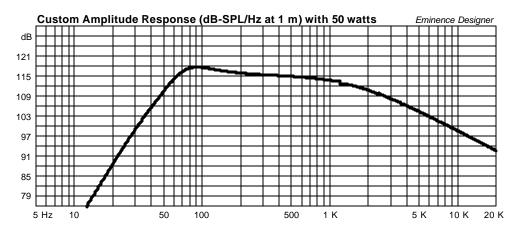
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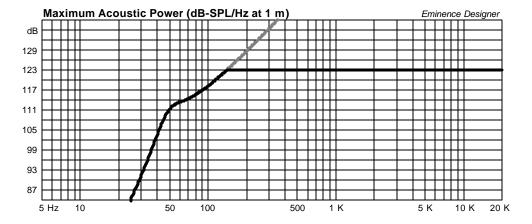
### No. of Drivers = 1

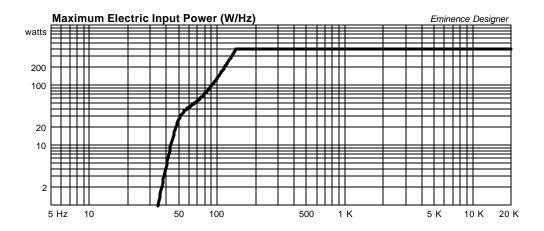
Mechanical Parameters		Electrical Parameters	
Fs =	40 Hz	Qes =	0.57
Qms =	8	Re =	6.3 ohms
Vas =	270.7 liters	Le =	0.64 mH
Cms =	0.255 mm/N	Z =	8 ohms
Mms =	62.13 g	BL =	13.2 Tm
Rms =	1.95 kg/s	Pe =	400 watts
Xmax =	2.7 mm	Electrom	ech. Parameters
Xmech =	11.1 mm	Qts =	0.53
P-Dia =	331.8 mm	no =	2.931 %
Sd =	864.6 sq.cm	1-W SPL =	96.82 dB
P-Vd =	0.233 liters	2.83-V SPI	_ = 97.85 dB

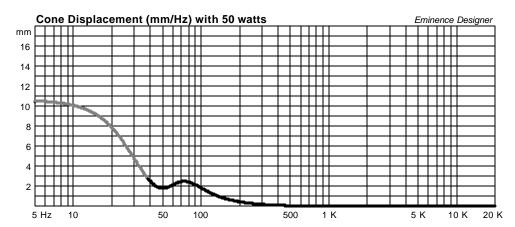
File: Delta15ALargerVentedBox50Watts.bb6

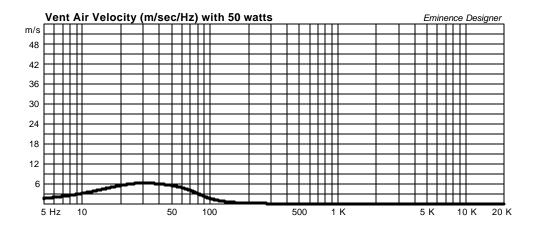


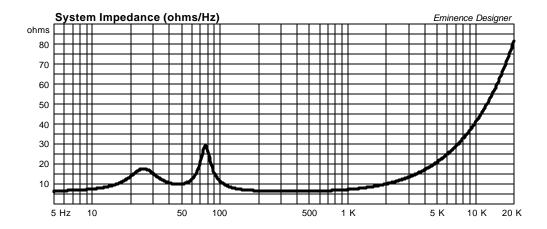


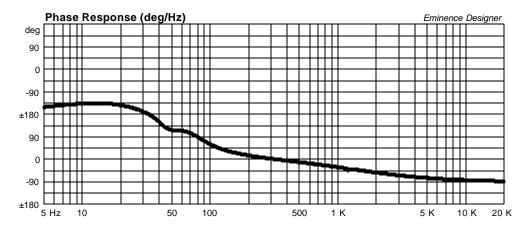


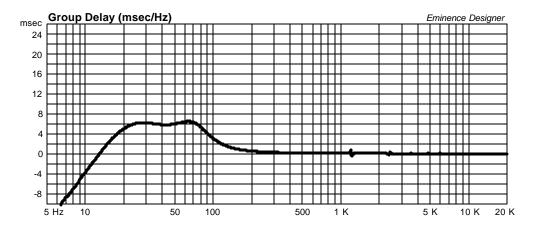












# Delta15A Small Sealed Cab.; Mid-High or Vocal Floor Wedge

Normalized Amplitude Response (dB-SPL/Hz)

By McJerry, Eminence Speaker LLC

Limited to 300 Watts; use a steep high pass filter set to 150 Hz or higher.

129

123

105

99

93

5 Hz

## **Box Properties**

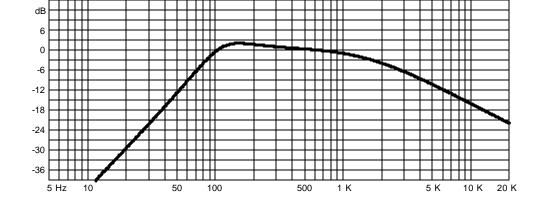
--Description--

Name:

Type: Closed Box

Shape: Prism, square (optimum)

--Box Parameters--Vb = 1.2 cu.ft V(total) = 1.328 cu.ft Qtc = 1.072 QL = 19.9 F3 = 85.31 Hz Fill = heavy



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 300 watts

 $\Box$ 

100

50

Eminence Designer

Eminence Designer

#### **Driver Properties**

--Description--

Name: Delta-15 (8 ohm) Type: Standard one-way driver Company: Eminence Speaker LLC Comment: Revised NOV 2005 Piston: Ribbed paper cone.

Suspension: Cloth surround. Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) AL Wire. Kapton tdrmer

Magnet: 56 oz ferrite magnet.

--Configuration--No. of Drivers = 1

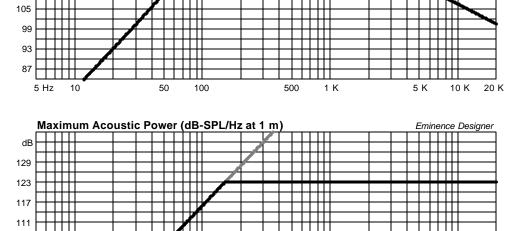
--Mechanical Parameters--

40 Hz Fs = Qms =

Vas = 270.7 liters Cms = 0.255 mm/N Mms =62.13 g Rms =1.95 kg/s Xmax = 2.7 mm Xmech = 11.1 mmP-Dia = 331.8 mm Sd =864.6 sq.cm P-Vd =0.233 liters

--Electrical Parameters--Qes = 0.57 Re = 6.3 ohms Le = 0.64 mH 8 ohms Z= BL = 13.2 Tm 400 watts Pe = --Electromech. Parameters--

Qts =0.53 2.931 % no =1-W SPL = 96.82 dB 2.83-V SPL = 97.85 dB



500

1 K

5 K

10 K

20 K

