Alpha15A Large Vented Enclosure
By Jerry McNutt, Eminence Speaker LLC
100 Watt Displacement Limited; F3 46 Hz
Will Require EQ to Flatten out.

Box Properties
--Description--
Name: Vented Box
Type: Prism, square (optimum)
--Box Parameters--
Vb = 6 cu.ft
V(total) = 6.136 cu.ft
Fb = 55 Hz
QL = 7
F3 = 45.9 Hz
Fill = minimal
--Vents--
No. of Vents = 2
Vent shape = round
Vent ends = one flush
Dv = 5.468 in
Lv = 0.75 in

Driver Properties
--Description--
Name: Alpha-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: 1.5 inch (38.1 mm) copper.
Magnet: 25 oz ferrite magnet.
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 41 Hz
Qms = 7.23
Vas = 260 liters
Xmax = 3.8 mm
Sd = 856.3 sq.cm
Qes = 1.53
Re = 5.88 ohms
Le = 0.84 mH
Z = 8 ohms
Pe = 200 watts
Alpha15A Med Vented Enclosure
By Jerry McNutt, Eminence Speaker LLC
100 Watt Displacement Limit; F3 55 Hz. Will Require EQ to Flatten Out.

Box Properties
--Description--
Name: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 3.75 cu.ft
V(total) = 3.876 cu.ft
Fb = 55 Hz
QL = 7
F3 = 55.12 Hz
Fill = minimal
--Vents--
No. of Vents = 1
Vent shape = round
Vent ends = one flush
Dv = 5.817 in
Lv = 0.75 in

Driver Properties
--Description--
Name: Alpha-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: 1.5 inch (38.1 mm) copper.
Magnet: 25 oz ferrite magnet.
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 41 Hz
Qms = 7.23
Vas = 260 liters
Xmax = 3.8 mm
Sd = 856.3 sq.cm
Qes = 1.53
Re = 5.88 ohms
Le = 0.84 mH
Z = 8 ohms
Pe = 200 watts
Cone Displacement (mm/Hz) with 100 watts

Vent Air Velocity (m/sec/Hz) with 100 watts

System Impedance (ohms/Hz)
Alpha15A Sealed Bass Guitar/ FR Enclosure
By Jerry McNutt, Eminence Speaker LLC
100 Watt Displacement Limit; F3 57 Hz. Will Require EQ to Flatten out.

Box Properties
--Description--
Name: Closed Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 2.716 cu.ft
V(total) = 2.829 cu.ft
Qtc = 1.5
QL = 16.54
F3 = 56.93 Hz
Fill = heavy

Driver Properties
--Description--
Name: Alpha-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: 1.5 inch (38.1 mm) copper.
Magnet: 25 oz ferrite magnet.
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 41 Hz
Qms = 7.23
Vas = 260 liters
Xmax = 3.8 mm
Sd = 856.3 sq.cm
Qes = 1.53
Re = 5.88 ohms
Le = 0.84 mH
Z = 8 ohms
Pe = 200 watts
Cone Displacement (mm/Hz) with 100 watts

System Impedance (ohms/Hz)