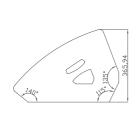
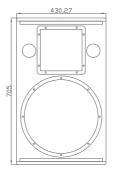
ENCLOSURE DESIGNS 2008









beyma //

beyond making sound

Beyma introduces a new range of enclosure designs created for obtaining the best performance from our latest loudspeakers and following the current trends in the market.

The new designs cover the needs for a wide number of applications, from the high power subwoofer enclosures to the compact stage monitors, offering a wide range of designs that include optimum performance, compact sizes and attractive designs.

The selection of Beyma loudspeakers in this new catalogue includes some of our latest and most innovative products, like the P1200Nd high power subwoofers or the pleated diaphragm tweeter TPL-150, which delivers an outstanding high frequency sound to a professional application. The design of specific passive crossover networks for some models as well as the different combination of drivers was carefully studied looking for a balanced system as well as the best sound response.

Three types of enclosure can be found in this book:

FULL RANGE SYSTEMS

Versatile PA systems designed in two way configuration. These cabinets can be used as small or medium size PA systems, as well as stage monitors. They are also prepared to be mounted on a stand or to attach a rigging system.

In order to allow all these features, the horns used in all these models can be rotated so that the cabinet can be used in vertical or horizontal position.

A wide variety of Beyma loudspeakers combinations can be found here. Our aim is to offer different options but always keeping the synergy among the different components and looking for the best final result.

SUBWOOFER ENCLOSURES

High efficiency designs for high power subwoofers. These systems will deliver an optimum sub bass performance as well as an extended SPL using the minimum volume. An impact in size and in response thanks to the P1200Nd and P1000Nd subwoofers and the ultra efficient P80Nd series.

STAGE MONITORS

Compact designs for an application where the space, in many cases, is highly limited. The design has been made for keeping a low height of the monitor in order to avoid any obstacle in the visual of the first rows. Attractive and functional profiles with the best sonic response from our coaxial drivers.

All the designs include detailed information of the cabinets, the components, the passive crossover network layout (when necessary) and our recommendations for the settings in order to obtain the best performance from every enclosure (filtering information and EQ presets).

Thank you very much for the confidence in our products.

Acústica Beyma s.l. May 2008

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FR12A/1

Technical Specifications

Acoustic cabinet: FR12A

Description: 2 Way System. 12" and High Frequency unit

Power AES: 350 W.

Power Program: 700 W.

Sensitivity 2,83v @ 1m: 97 dB.

Max. SPL continuous: 122 dB.

Max. SPL peak: 128 dB.

Frequency response: 43 - 25.000Hz.

Coverage (H x V): 90° x 40°

Bass Loudspeakers: 12MW/ND

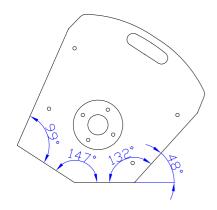
Compression Driver: TPL150

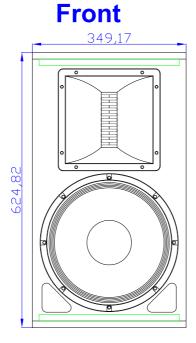
Constant Directivity Horn: TD TPL

Crossover: FP12A/1

Hardware: External

Base





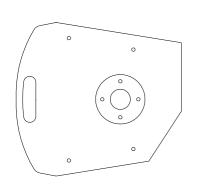
Lateral 376,29



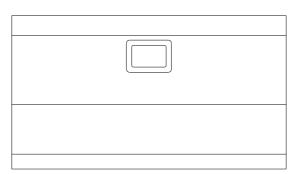


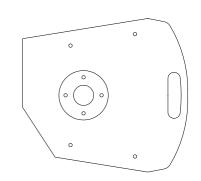
FR12A/1 CAD





Rear

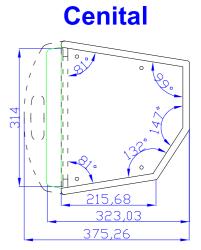




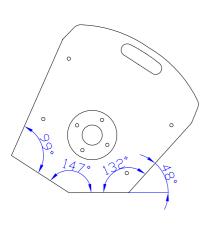
Base 280,45

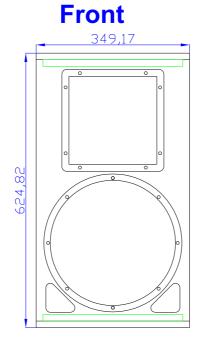
Section Front 564,82 594,82

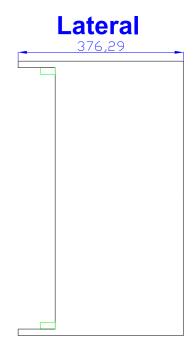
624,82



Base









CABCABINETS

FR12A/1 Drivers

12MWNd

KEY FEATURES

- Good power handling (350 W AES)
- Sensitivity: 97 dB @ 2.83V
- Extended frequency response (35-5000 Hz)
- Neodymium magnets
- · Aluminium customized basket



TECHNICAL SPECIFICATIONS

 Nominal diameter 300 mm. 12 in. • Rated impedance 8 ohms • Minimum impedance 7 ohms Power capacity* 350 w AES • Program power 700 w

 Sensitivity 97 dB 2.83v @ 1m @ 2π

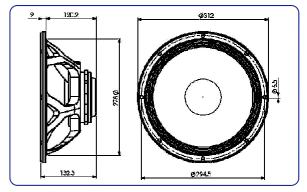
35 - 5000 Hz • Frequency range Voice coil diameter 62.4 mm. 2.5 in. 2.54 kg. 5.59 lb. • Magnetic assembly weight BL factor 16.9 N / A • Voice coil length 19.5 mm Air gap height 10 mm • X damage (peak to peak) 30 mm

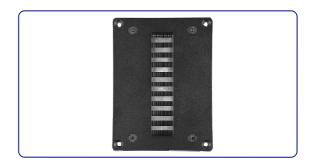
TPL-150

KEY FEATURES

- Superior sound reproduction quality
- Extended frequency response (1 23 kHz)
- High sensitivity (99 dB)
- Extremely linear frequency response
- Low distortion
- Designed for the high frequencies reproduction

DIMENSION DRAWINGS





TECHNICAL SPECIFICATIONS

• Rated impedance 8 ohms • D.C. Resistance 59 ohms

 Power capacity* 80 w AES above 1 kHz 160 w above 1 kHz Program power Sensitivity** 99 dB 1w @ 1m • Frequency range 1-23000 Hz Voice coil diameter 100 mm. 4 in.

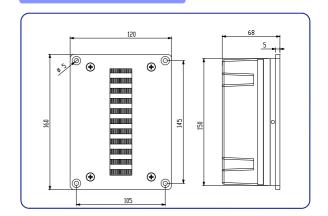
• Net weight 2.18 kg. 4.8 lb.

"The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

"Sensitivity was measured at 1 m distance, on axis, with 1 w input, averaged in the range 2.5 - 20 kHz.

• Recommended Crossover 1 kHz or higher (12 dB/oct. min.)





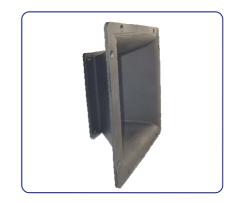


FR12A/1 Drivers

TD-TPL

KEY FEATURES

- Designed to be used with TPL-150 tweeter
- Coverage angles of 80° in the horizontal plane and 30° in the vertical plane
- Precise directivity control in the pass band
- Cast aluminium construction



TECHNICAL SPECIFICATIONS

• Throat dimmensions (WxH) 12 x 208 mm. 0.47 x 8.19 in.

• Horizontal beamwidth 80° (+9°, -20°) (-6 dB, 1.2 - 16 kHz) • Vertical beamwidth 30° (+27°, -21°) (6 dB, 2, 16 kHz)

(-6 dB, 2 - 16 kHz)

• Directivity factor (Q) 27 (average 1.2 - 16 kHz)

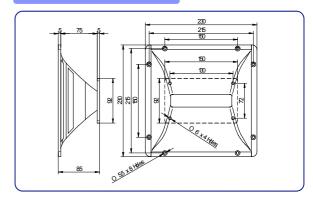
• Directivity index (DI) 13 dB (+6 dB, -4.5 dB)

• Cutoff frequency 800 Hz

Dimensions (WxHxD)
 Cutout dimensions (WxH)
 230x230x85 mm.
 9.05x9.05x3.35 in.
 195x195 mm.

7.68x7.68 in.
Net weight 1.5 kg. 3.3 lb.
Construction Cast aluminium.

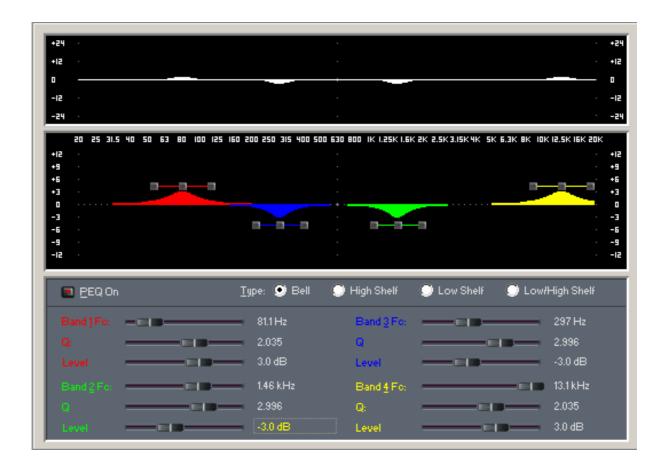
Connection of driver by four screws on a 5 mm. diameter bolt circle.



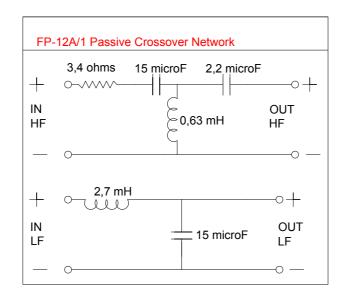




FR12A/1 Presets



FR12A/1 Crossover







FR12A/2

Technical Specifications

Acoustic cabinet: FR12A

Description: 2 Way System. 12" and High Frequency unit

Power AES: 400 W.

Power Program: 800 W.

Sensitivity 2,83v @ 1m: 97 dB.

Max. SPL continuous: 123 dB.

Max. SPL peak: 129 dB.

Frequency response: 45 - 25.000Hz.

Coverage (H x V): 90° x 40°

Bass Loudspeakers: 12G40

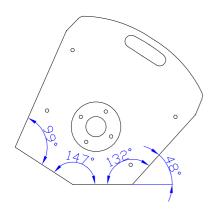
Compression Driver: TPL150

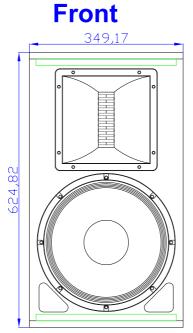
Constant Directivity Horn: TD TPL

Crossover: External

Hardware: External

Base





Lateral

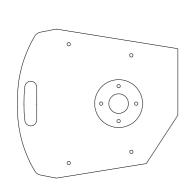
376,29



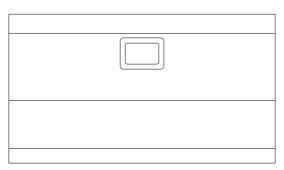


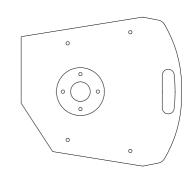
FR12A/2 CAD





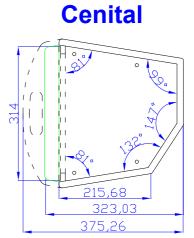
Rear



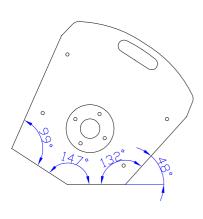


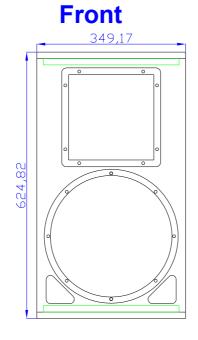
Base 280,45

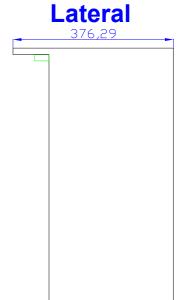
Section Front 564,82 594,82 624,82



Base









FR12A/2 Drivers

12G40

KEY FEATURES

- High power handling (500 W AES)
- 3" edgewound copper voice-coil with polyimide fiber glass former
- Optimum winding length for increased linear excursion
- Designed for woofer applications



TECHNICAL SPECIFICATIONS

300 mm. 12 in. Nominal diameter • Rated impedance 8 ohms • Minimum impedance 6.7 ohms Power capacity* 500 w AES • Program power 1000 w

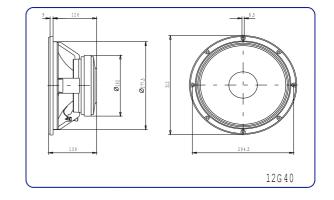
 Sensitivity 97 dB 2.83v @ 1m @ 2π

35 - 4000 Hz • Frequency range Voice coil diameter 77 mm. 3 in. • Magnetic assembly weight 6.3 kg. 13.9 lb. BL factor 18.4 N / A 20 mm • Voice coil length · Air gap height 8 mm • X damage (peak to peak) 28 mm

*The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

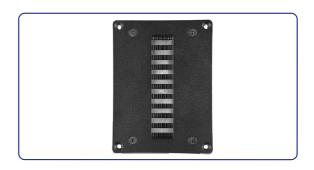
DIMENSION DRAWINGS



TPL-150

KEY FEATURES

- Superior sound reproduction quality
- Extended frequency response (1 23 kHz)
- High sensitivity (99 dB)
- Extremely linear frequency response
- Low distortion
- Designed for the high frequencies reproduction



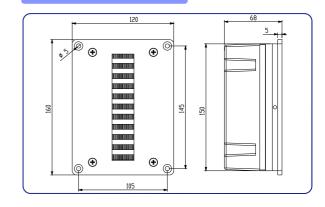
TECHNICAL SPECIFICATIONS

 Rated impedance 8 ohms • D.C. Resistance 5.9 ohms 80 w AES above 1 kHz Power capacity* 160 w above 1 kHz • Program power 99 dB 1w @ 1m Sensitivity** Frequency range 1- 23000 Hz Voice coil diameter 100 mm. 4 in.

• Recommended Crossover 1 kHz or higher (12 dB/oct. min.)

• Net weight 2.18 kg. 4.8 lb.

Notes: "The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material. "Sensitivity was measured at 1 m distance, on axis, with 1 w input, averaged in the range 2.5 - 20 kHz.





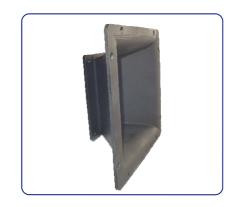


FR12A/2 Drivers

TD-TPL

KEY FEATURES

- Designed to be used with TPL-150 tweeter
- Coverage angles of 80° in the horizontal plane and 30° in the vertical plane
- Precise directivity control in the pass band
- Cast aluminium construction



TECHNICAL SPECIFICATIONS

• Throat dimmensions (WxH) 12 x 208 mm. 0.47 x 8.19 in.

Horizontal beamwidth 80° (+9°, -20°) (-6 dB, 1.2 - 16 kHz)
 Vertical beamwidth 30° (+27°, -21°)

(-6 dB, 2 - 16 kHz)

• Directivity factor (Q) 27 (average 1.2 - 16 kHz)

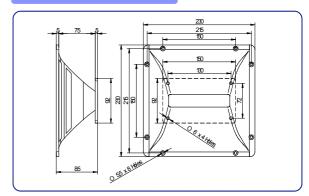
• Directivity index (DI) 13 dB (+6 dB, -4.5 dB)

• Cutoff frequency 800 Hz

Dimensions (WxHxD)
 230x230x85 mm.
 9.05x9.05x3.35 in.
 Cutout dimensions (WxH)
 195x195 mm.

7.68x7.68 in.
Net weight
1.5 kg. 3.3 lb.
Construction
Cast aluminium.

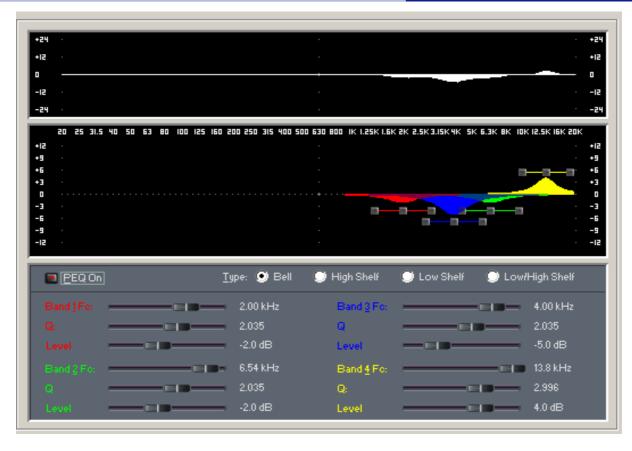
Connection of driver by four screws on a 5 mm. diameter bolt circle.

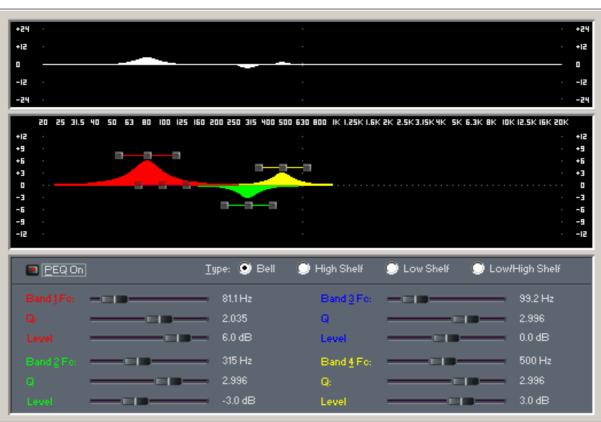






FR12A/2 Presets

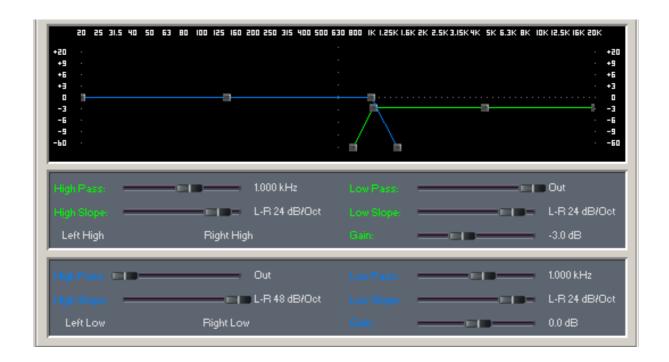








FR12A/2 Crossover







FR12B/1

Technical Specifications

Acoustic cabinet: FR12B

Description: 2 Way System. 12" and High Frequency unit

Power AES: 350 W.

Power Program: 700 W.

Sensitivity 2,83v @ 1m: 97 dB.

Max. SPL continuous: 122 dB.

Max. SPL peak: 128 dB.

Frequency response: 45 - 20.000Hz.

Coverage (H x V): 80° x 50°

Bass Loudspeakers: 12MW/ND

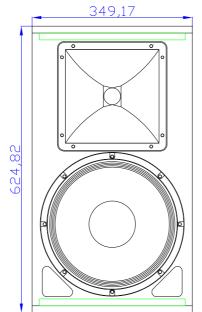
Compression Driver: CP755/ND

Constant Directivity Horn: TD-385

Crossover: FP-12B/1

Hardware: External

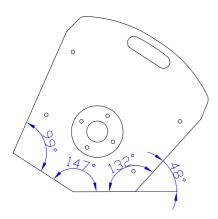
Front



Lateral

376,29





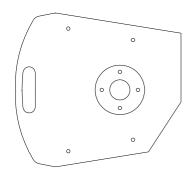


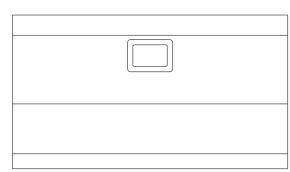


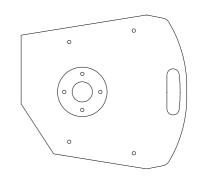
FR12B/1 CAD



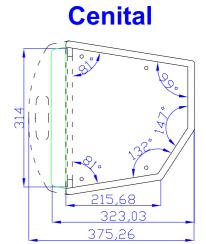




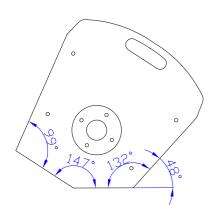


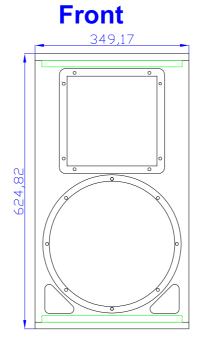


Base Front 280,45 564,82 594,82 624,82

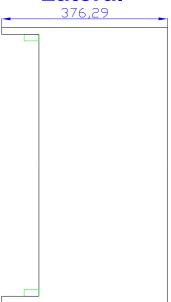


Base





Lateral





CABCABINETS

FR12B/1 Drivers

12MWNd

KEY FEATURES

- Good power handling (350 W AES)
- Sensitivity: 97 dB @ 2.83V
- Extended frequency response (35-5000 Hz)
- Neodymium magnets
- · Aluminium customized basket



TECHNICAL SPECIFICATIONS

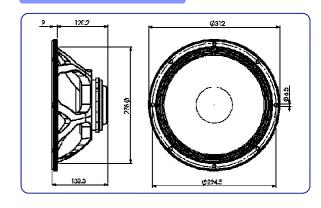
 Nominal diameter 300 mm. 12 in. Rated impedance 8 ohms Minimum impedance 7 ohms 350 w AES Power capacity* Program power 700 w

 Sensitivity 97 dB 2.83v @ 1m @ 2π

35 - 5000 Hz • Frequency range Voice coil diameter 62.4 mm. 2.5 in. • Magnetic assembly weight 2.54 kg. 5.59 lb. • BL factor 169N/A Voice coil length 19.5 mm · Air gap height 10 mm • X damage (peak to peak) 30 mm

Notes: *The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material

DIMENSION DRAWINGS



CP-755Nd

KEY FEATURES

- Composite structure diaphragm (Titanium dome & Mylar surround)
- Light neodymium magnet
- · Optimized titanium phasing plug
- Superior high frequencies sound reproduction quality
- Extended frequency response (0.6 20 kHz)
- High sensitivity (112 dB)



TECHNICAL SPECIFICATIONS

 Throat diameter 36 mm 14" • Rated impedance 8 ohms • D.C. Resistance 5.5 ohms

 Power capacity* 70 w AES above 1 kHz • Program power 140 w above 1 kHz Sensitivity** 112 dB 1w @ 1m 600-20000 Hz • Frequency range Voice coil diameter 72.2 mm. 2.87 in.

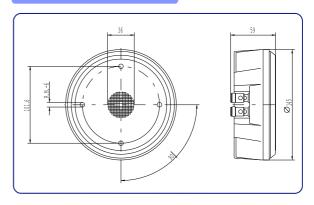
• Recommended Crossover 800 Hz or higher (12 dB/oct. min.)

• Net weight 2.96 kg. 6.51 lb.

"The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

"Sensitivity was measured at 1 m distance, on axis, with 1 w input, averaged in the range 1 - 7 kHz and Coupled to a TD565 horn.





PROFESSIONAL LOUDSPEAKERS



FR12B/1 Drivers

TD-385

KEY FEATURES

- Designed for compression drivers with 1.4" throat diameter
- It provides uniform response, on and off-axis with a neutral and natural frequency reproduction
- \bullet Coverage angles of $80^{\rm o}$ in the horizontal plane and $50^{\rm o}$ in the vertical plane
- Precise directivity control in the pass band
- Its square form provides more versatility when mounting in the enclosure

TECHNICAL SPECIFICATIONS

Throat diameterHorizontal beamwidth

Vertical beamwidth

Directivity factor (Q)Directivity index (DI)

Cutoff frequency

• Dimensions (WxHxD)

• Cutout dimensions (WxH)

Net weightShipping weightConstruction

36 mm. 1.4 in. 80° (+16°, -32°) (-6 dB, 1 - 20 kHz) 50° (+29°, -14°) (-6 dB, 1.6 - 20 kHz)

12.4 (average 0.63 - 16 kHz) 10.5 dB (+3.5 dB, -3.2 dB)

800 Hz

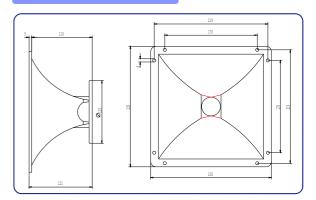
235x235x120 mm. 9.25x9.25x4.72 in. 204x202 mm. 8.03x7.95 in.

1.2 kg. 2.64 lb. 1.53 kg. 3.37 lb. Cast aluminium.

Connection of driver by four screws on a 101.6 mm.

diameter bolt circle.

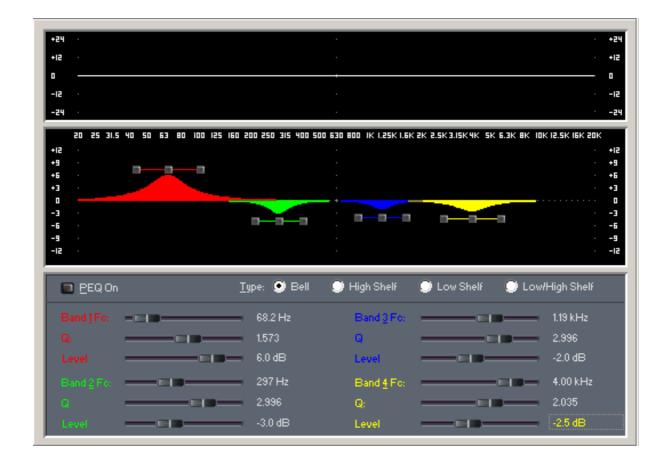




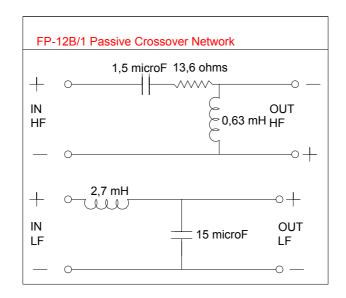




FR12B/1 Presets



FR12B/1 Crossover





FR12B/2

Technical Specifications

Acoustic cabinet: FR12B

Description: 2 Way System. 12" and High Frequency unit

Power AES: 400 W.

Power Program: 800 W.

Sensitivity 2,83v @ 1m: 97 dB.

Max. SPL continuous: 123 dB.

Max. SPL peak: 129 dB.

Frequency response: 45 - 20.000Hz.

Coverage (H x V): 80° x 50°

Bass Loudspeakers: 12G40

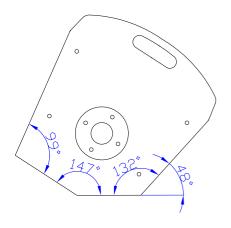
Compression Driver: CP755/ND

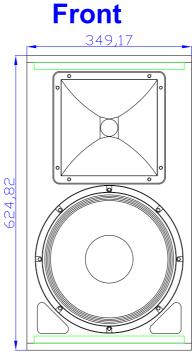
Constant Directivity Horn: TD-385

Crossover: FP-12B/2

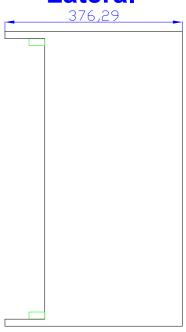
Hardware: External

Base





Lateral

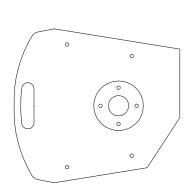




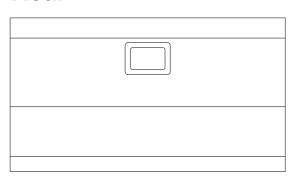


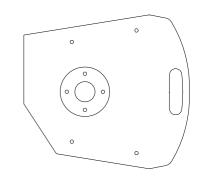
FR12B/2 CAD

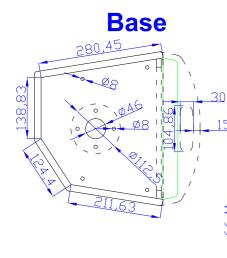




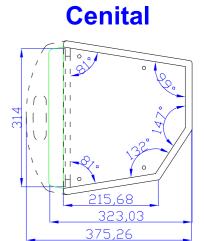
Rear



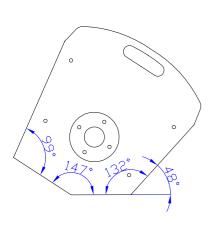


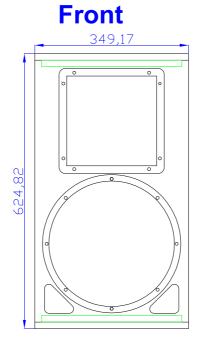


Front 564,82 594,82 624,82

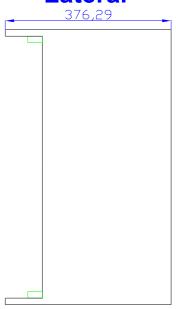


Base





Lateral





FR12B/2 Drivers

12G40

KEY FEATURES

- High power handling (500 W AES)
- 3" edgewound copper voice-coil with polyimide fiber glass former
- Optimum winding length for increased linear excursion
- · Designed for woofer applications



TECHNICAL SPECIFICATIONS

 Nominal diameter 300 mm. 12 in. Rated impedance 8 ohms • Minimum impedance 6.7 ohms Power capacity* 500 w AES • Program power 1000 w

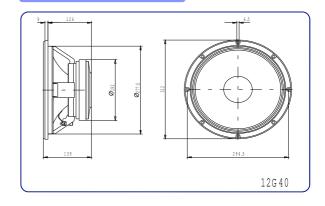
 Sensitivity 97 dB 2.83v @ 1m @ 2π

• Frequency range 35 - 4000 Hz Voice coil diameter 77 mm. 3 in. • Magnetic assembly weight 6.3 kg. 13.9 lb. • BL factor 18.4 N / A Voice coil length 20 mm · Air gap height 8 mm • X damage (peak to peak) 28 mm

"The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material

DIMENSION DRAWINGS



CP-755Nd

KEY FEATURES

- Composite structure diaphragm (Titanium dome & Mylar surround)
- Light neodymium magnet
- Optimized titanium phasing plug
- Superior high frequencies sound reproduction quality
- Extended frequency response (0.6 20 kHz)
- High sensitivity (112 dB)



TECHNICAL SPECIFICATIONS

 Throat diameter 36 mm. 1.4" Rated impedance 8 ohms • D.C. Resistance 5.5 ohms 70 w AES above 1 kHz Power capacity*

• Program power 140 w above 1 kHz 112 dB 1w @ 1m Sensitivity** Frequency range 600-20000 Hz Voice coil diameter 72.2 mm. 2.87 in.

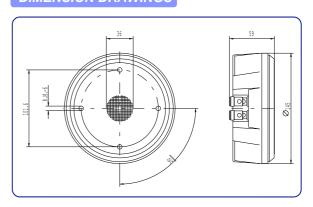
• Recommended Crossover 800 Hz or higher (12 dB/oct. min.)

 Net weight 2.96 kg. 6.51 lb.

The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

*Sensitivity was measured at 1 m distance, on axis, with 1 w input, averaged in the range 1 - 7 kHz and Coupled to a TD565 horn.





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FR12B/2 Drivers

TD-385

KEY FEATURES

- Designed for compression drivers with 1.4" throat diameter
- It provides uniform response, on and off-axis with a neutral and natural frequency reproduction
- \bullet Coverage angles of $80^{\rm o}$ in the horizontal plane and $50^{\rm o}$ in the vertical plane
- Precise directivity control in the pass band
- Its square form provides more versatility when mounting in the enclosure

TECHNICAL SPECIFICATIONS

Throat diameterHorizontal beamwidth

Vertical beamwidth

• Directivity factor (Q)

Directivity index (DI)Cutoff frequency

Dimensions (WxHxD)

• Cutout dimensions (WxH)

Net weightShipping weightConstruction

36 mm. 1.4 in. 80° (+16°, -32°) (-6 dB, 1 - 20 kHz) 50° (+29°, -14°) (-6 dB, 1.6 - 20 kHz)

12.4 (average 0.63 - 16 kHz) 10.5 dB (+3.5 dB, -3.2 dB)

800 Hz

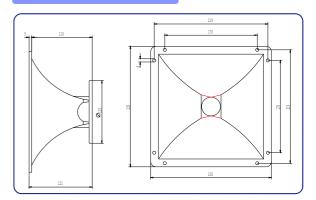
235x235x120 mm. 9.25x9.25x4.72 in. 204x202 mm. 8.03x7.95 in.

1.2 kg. 2.64 lb. 1.53 kg. 3.37 lb. Cast aluminium.

Connection of driver by four screws on a 101.6 mm.

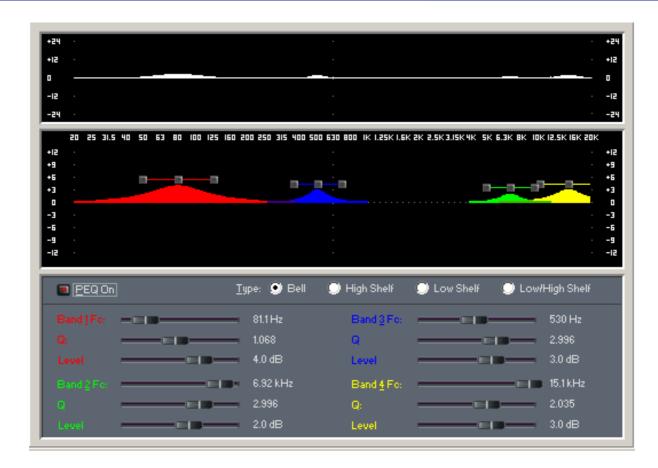
diameter bolt circle.



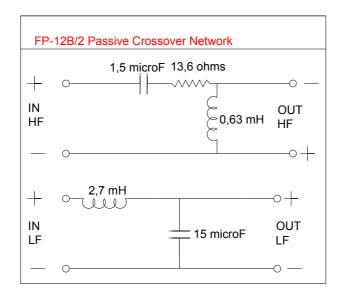




FR12B/2 Presets



FR12B/2 Crossover







FR15A/1

Technical Specifications

Acoustic cabinet: FR15A

Description: 2 Way System. 15" and High Frequency unit

Power AES: 1.000 W.

Power Program: 2.000 W.

Sensitivity 2,83v @ 1m: 97 dB.

Max. SPL continuous: 127 dB.

Max. SPL peak: 133 dB.

Frequency response: 40 - 20.000 Hz.

Coverage (H x V): 90° x 40°

Bass Loudspeakers: 15P1000ND

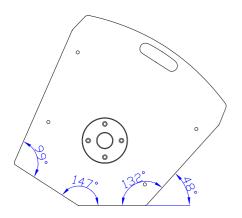
Compression Driver: TPL150

Constant Directivity Horn: TD TPL

Crossover: External

Hardware: External

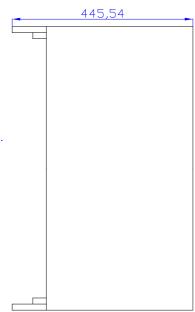
Base



Front

430,27

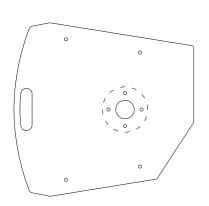
Lateral



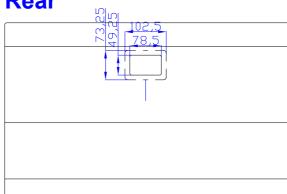


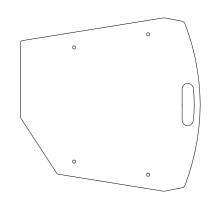


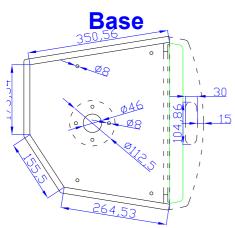
FR15A/1 CAD



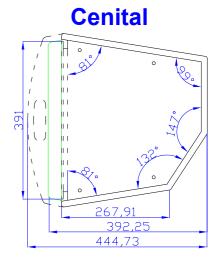




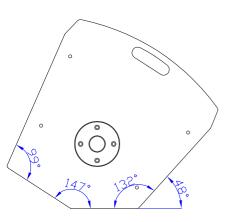


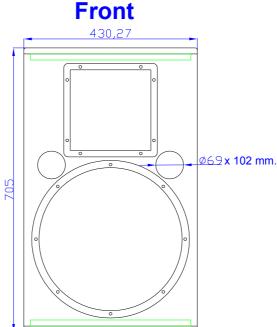


Section Front 645 675

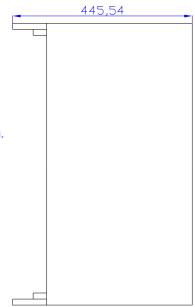


Base





Lateral





FR15A/1 Drivers

15P1000Nd

KEY FEATURES

- Real 1000 W AES power handling
- Sensitivity: 97 dB @ 2.83V
- 4" Duo Technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 8 mm.
- Massive mechanical displacement capability: 52 mm p-p



TECHNICAL SPECIFICATIONS

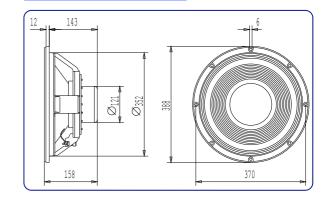
 Nominal diameter 380 mm. 15 in. • Rated impedance 8 ohms • Minimum impedance 6.3 ohms Power capacity* 1000 w AES 2000 w • Program power

 Sensitivity 97 dB 2.83v @ 1m @ 2π

• Frequency range 30 - 2000 Hz Voice coil diameter 100 mm. 4 in. • Magnetic assembly weight 4.62 kg. 10.16 lb. BL factor 24.3 N / A Voice coil length 21 mm · Air gap height 12 mm • X damage (peak to peak) 52 mm

*The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music p

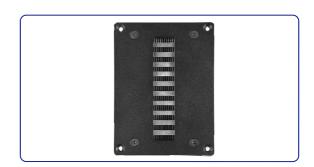
DIMENSION DRAWINGS



TPL-150

KEY FEATURES

- Superior sound reproduction quality
- Extended frequency response (1 23 kHz)
- High sensitivity (99 dB)
- Extremely linear frequency response
- Low distortion
- Designed for the high frequencies reproduction



TECHNICAL SPECIFICATIONS

 Rated impedance 8 ohms • D.C. Resistance 5.9 ohms

 Power capacity* 80 w AES above 1 kHz • Program power 160 w above 1 kHz Sensitivity** 99 dB 1w @ 1m • Frequency range 1-23000 Hz Voice coil diameter 100 mm. 4 in.

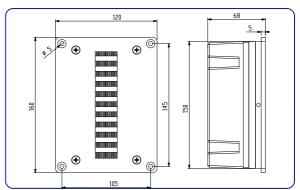
1 kHz or higher (12 dB/oct. min.) • Recommended Crossover

 Net weight 2.18 kg. 4.8 lb.

"The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

"Sensitivity was measured at 1 m distance, on axis, with 1 w input, averaged in the range 2.5 - 20 kHz.





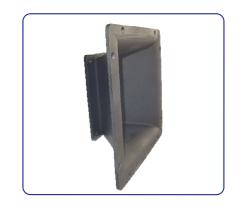


FR15A/1 Drivers

TD-TPL

KEY FEATURES

- Designed to be used with TPL-150 tweeter
- Coverage angles of 80° in the horizontal plane and 30° in the vertical plane
- Precise directivity control in the pass band
- Cast aluminium construction



TECHNICAL SPECIFICATIONS

• Throat dimmensions (WxH) 12 x 208 mm. 0.47 x 8.19 in.

Horizontal beamwidth 80° (+9°, -20°) (-6 dB, 1.2 - 16 kHz)
 Vertical beamwidth 30° (+27°, -21°)

• Directivity factor (Q)
• Directivity index (DI)

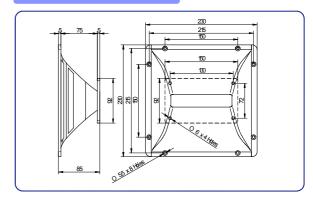
50 (127 , -21)
(-6 dB, 2 - 16 kHz)
27 (average 1.2 - 16 kHz)
13 dB (+6 dB, -4.5 dB)

• Cutoff frequency 800 Hz

Dimensions (WxHxD)
 230x230x85 mm.
 9.05x9.05x3.35 in.
 Cutout dimensions (WxH)
 195x195 mm.
 7.68x7.68 in.

Net weight
Construction
1.5 kg. 3.3 lb.
Cast aluminium.

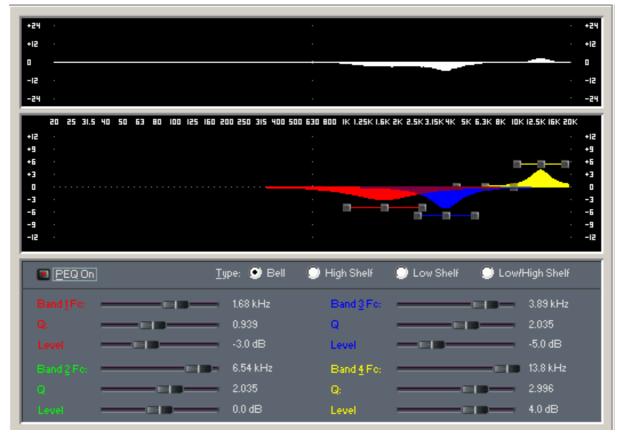
Connection of driver by four screws on a 5 mm. diameter bolt circle.

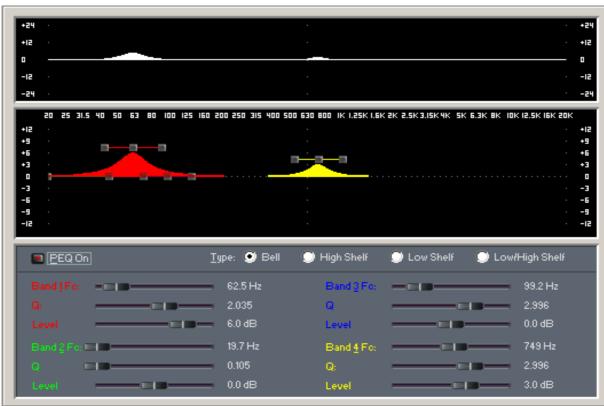






FR15A/1 Presets

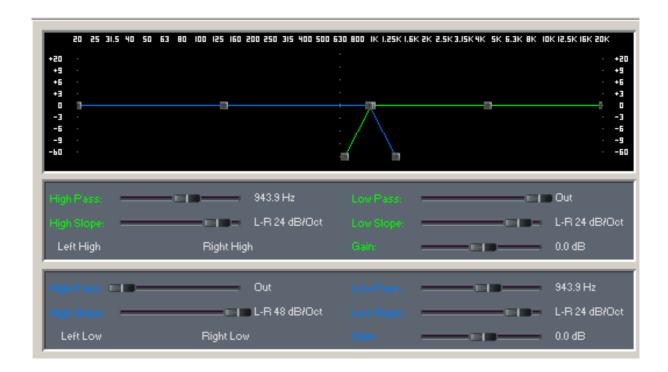








FR15A/1 Crossover





FR15A/2

Technical Specifications

Acoustic cabinet: FR15A

Description: 2 Way System. 15" and High Frequency unit

Power AES: 800 W.

Power Program: 1.600 W.

Sensitivity 2,83v @ 1m: 100 dB.

Max. SPL continuous: 129 dB.

Max. SPL peak: 135 dB.

Frequency response: 45 - 25.000Hz.

Coverage (H x V): 90° x 40°

Bass Loudspeakers: 15P80ND

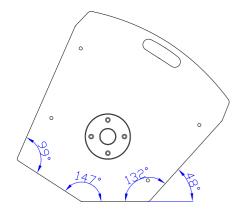
Compression Driver: TPL150

Constant Directivity Horn: TD TPL

Crossover: External

Hardware: External

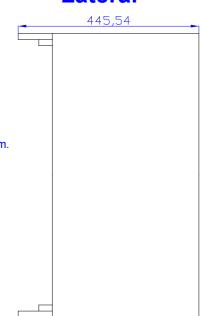
Base



Front

430,27 Ø69 x 102 mm.

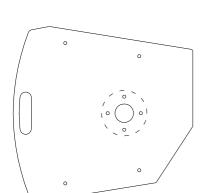
Lateral



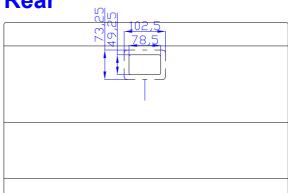


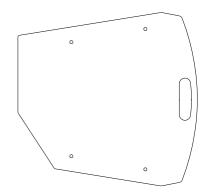


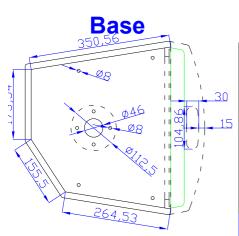
FR15A/2 CAD



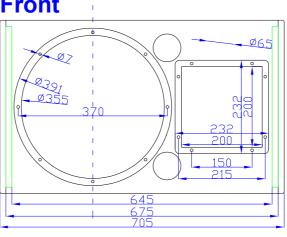




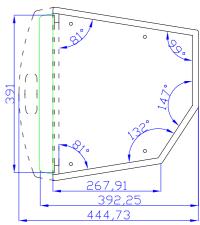




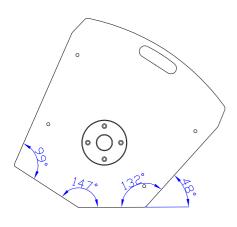
Front Section



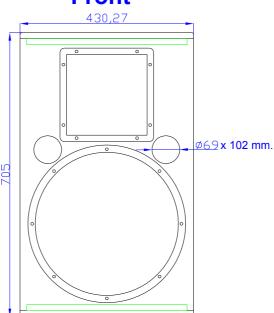
Cenital



Base



Front



Lateral



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FR15A/2 Drivers

15P80Nd

KEY FEATURES

- Real 800 W AES power handling
- Sensitivity: 100 dB @ 2.83V
- 4" Duo Technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 7.5 mm.
- Massive mechanical displacement capability: 52 mm p-p



TECHNICAL SPECIFICATIONS

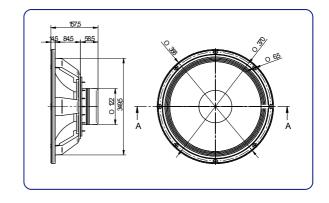
 Nominal diameter 380 mm. 15 in. • Rated impedance 8 ohms • Minimum impedance 6.6 ohms Power capacity* 800 w AES 1600 w • Program power

 Sensitivity 100 dB 2.83v @ 1m @ 2π

30 - 5000 Hz • Frequency range Voice coil diameter 100 mm. 4 in. 4.62 kg. 10.16 lb. • Magnetic assembly weight BL factor 23.6 N / A Voice coil length 20 mm Air gap height 12 mm • X damage (peak to peak) 52 mm

*The power capacity is determined according to AES2-1984 (r2003) standard Program power is defined as the transducer's ability to handle normal music p

DIMENSION DRAWINGS



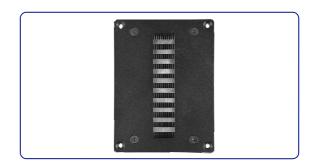
TPL-150

KEY FEATURES

- Superior sound reproduction quality
- Extended frequency response (1 23 kHz)
- High sensitivity (99 dB)
- Extremely linear frequency response
- Low distortion

Rated impedance

• Designed for the high frequencies reproduction



TECHNICAL SPECIFICATIONS

• D.C. Resistance 5.9 ohms Power capacity* 80 w AES above 1 kHz • Program power 160 w above 1 kHz Sensitivity** 99 dB 1w @ 1m 1- 23000 Hz • Frequency range Voice coil diameter 100 mm. 4 in.

1 kHz or higher (12 dB/oct. min.) • Recommended Crossover

8 ohms

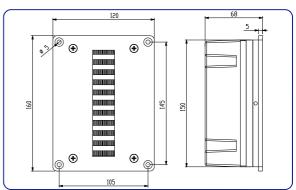
 Net weight 2.18 kg. 4.8 lb.

Notes:

*The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

*Sensitivity was measured at 1 m distance, on axis, with 1 w input, averaged in the range 2.5 - 20 kHz.





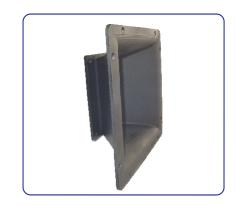


FR15A/2 Drivers

TD-TPL

KEY FEATURES

- Designed to be used with TPL-150 tweeter
- Coverage angles of 80° in the horizontal plane and 30° in the vertical plane
- Precise directivity control in the pass band
- Cast aluminium construction



TECHNICAL SPECIFICATIONS

• Throat dimmensions (WxH)

Horizontal beamwidth

Vertical beamwidth

Directivity factor (Q)

• Directivity index (DI)

• Cutoff frequency • Dimensions (WxHxD)

• Cutout dimensions (WxH)

Net weight

• Construction

12 x 208 mm. 0.47 x 8.19 in.

80° (+9°, -20°) (-6 dB, 1.2 - 16 kHz)

30° (+27° , -21°) (-6 dB, 2 - 16 kHz)

27 (average 1.2 - 16 kHz) 13 dB (+6 dB, -4.5 dB)

800 Hz

230x230x85 mm.

9.05x9.05x3.35 in.

195x195 mm.

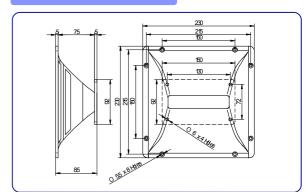
7.68x7.68 in.

1.5 kg. 3.3 lb. Cast aluminium.

Connection of driver by

four screws on a 5 mm.

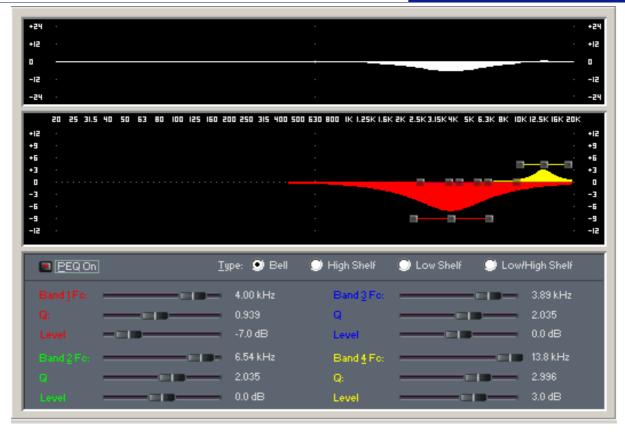
diameter bolt circle.

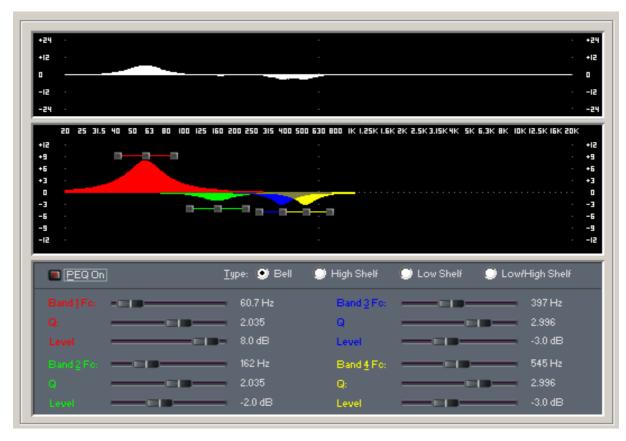




CABCABINETS



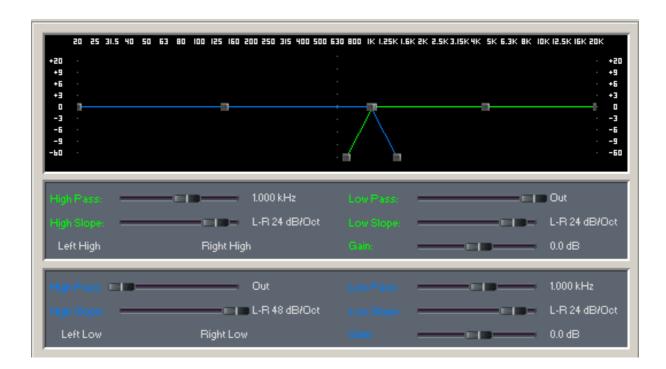








FR15A/2 Crossover





FR15B/1

Technical Specifications

Acoustic cabinet: FR15B

Description: 2 Way System. 15" and High Frequency unit

Power AES: 1.000 W.
Power Program: 2.000 W.

Sensitivity 2,83v @ 1m: 97 dB.

Max. SPL continuous: 127 dB.

Max. SPL peak: 133 dB.

Frequency response: 40 - 20.000Hz.

Coverage (H x V): 80° x 50°

Bass Loudspeakers: 15P1000ND

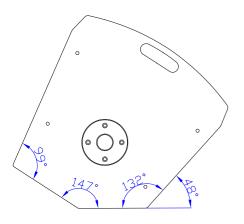
Compression Driver: CP-755/TI

Constant Directivity Horn: TD-385

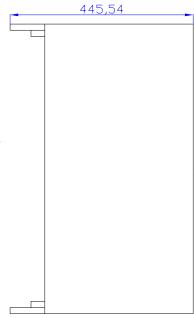
Crossover: External

Hardware: External

Base



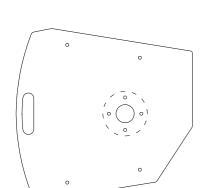
Lateral

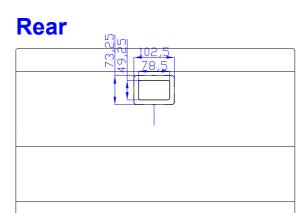


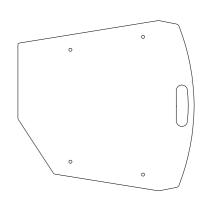


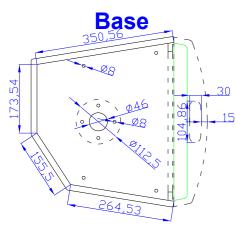


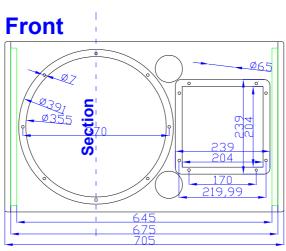
FR15B/1 CAD

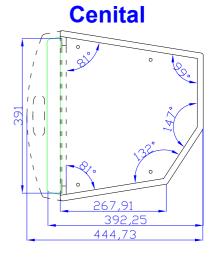




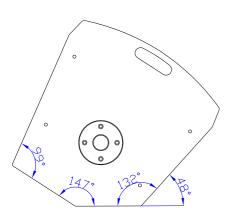


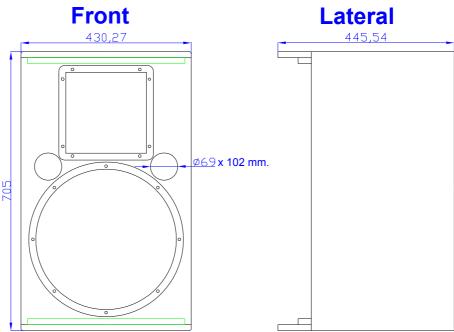






Base







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CABCABINETS

FR15B/1 Drivers

15P1000Nd

KEY FEATURES

- Real 1000 W AES power handling
- Sensitivity: 97 dB @ 2.83V
- 4" Duo Technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 8 mm.
- Massive mechanical displacement capability: 52 mm p-p



TECHNICAL SPECIFICATIONS

 Nominal diameter 380 mm. 15 in. • Rated impedance 8 ohms • Minimum impedance 6.3 ohms Power capacity* 1000 w AES • Program power 2000 w

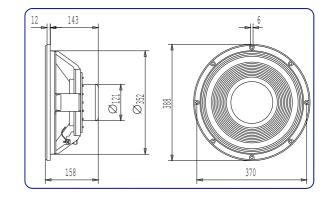
 Sensitivity 97 dB 2.83v @ 1m @ 2π 30 - 2000 Hz • Frequency range

 Voice coil diameter 100 mm. 4 in. 4.62 kg. 10.16 lb. • Magnetic assembly weight BL factor 24.3 N / A Voice coil length 21 mm 12 mm

 Air gap height • X damage (peak to peak) 52 mm

*The power capacity is determined according to AES2-1984 (r2003) standard Program power is defined as the transducer's ability to handle normal music p

DIMENSION DRAWINGS



CP-755Ti

KEY FEATURES

- Composite structure diaphragm (Titanium dome & Mylar surround)
- · Optimized titanium phasing plug
- · Superior high frequencies sound reproduction quality
- Extended frequency response (0.6 20 kHz)
- High sensitivity (110 dB)

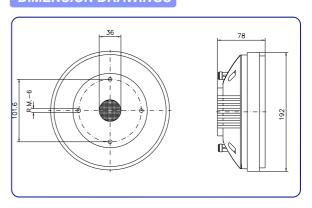


TECHNICAL SPECIFICATIONS

 Throat diameter 3.6 mm. 1.4" Rated impedance 8 ohms • D.C. Resistance 5.5 ohms Power capacity* 90 w AES above 1 kHz 180 w above 1 kHz Program power Sensitivity** 110 dB 1w @ 1m • Frequency range 600- 20000 Hz Voice coil diameter 72.2 mm. 2.87 in.

• Recommended Crossover 800 Hz or higher (12 dB/oct. min.)

· Net weight 6.75 kg. 14.85 lb.





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FR15B/1 Drivers

TD-385

KEY FEATURES

- Designed for compression drivers with 1.4" throat diameter
- It provides uniform response, on and off-axis with a neutral and natural frequency reproduction
- \bullet Coverage angles of $80^{\rm o}$ in the horizontal plane and $50^{\rm o}$ in the vertical plane
- Precise directivity control in the pass band
- Its square form provides more versatility when mounting in the enclosure

TECHNICAL SPECIFICATIONS

Throat diameterHorizontal beamwidth

Vertical beamwidth

Directivity factor (Q)Directivity index (DI)

Cutoff frequency

• Dimensions (WxHxD)

• Cutout dimensions (WxH)

Net weightShipping weight

Construction

36 mm. 1.4 in. 80° (+16°, -32°) (-6 dB, 1 - 20 kHz)

50° (+29° , -14°) (-6 dB, 1.6 - 20 kHz)

12.4 (average 0.63 - 16 kHz) 10.5 dB (+3.5 dB, -3.2 dB)

800 Hz

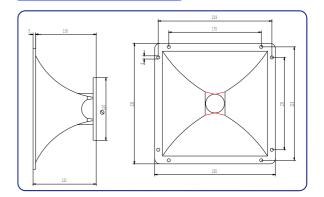
235x235x120 mm. 9.25x9.25x4.72 in. 204x202 mm. 8.03x7.95 in.

1.2 kg. 2.64 lb. 1.53 kg. 3.37 lb. Cast aluminium.

Connection of driver by four screws on a 101.6 mm.

diameter bolt circle.



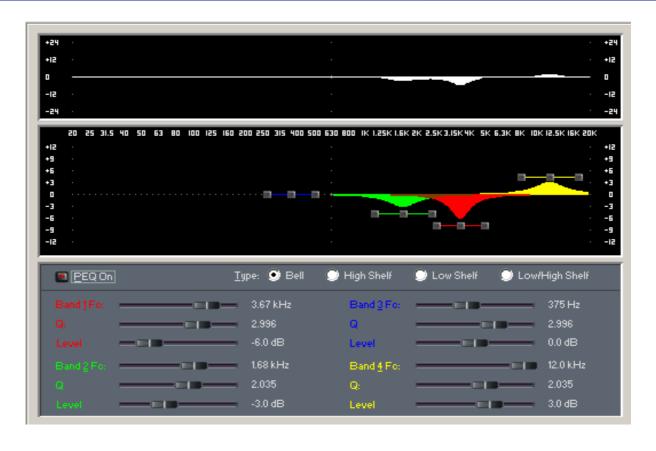


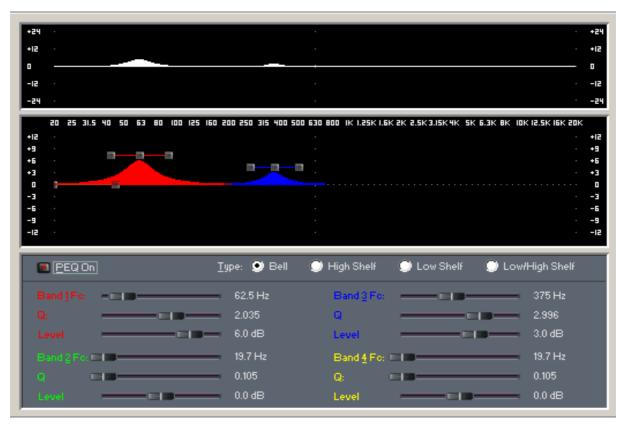




FR15B/1 Presets

PROFESSIONAL LOUDSPEAKERS

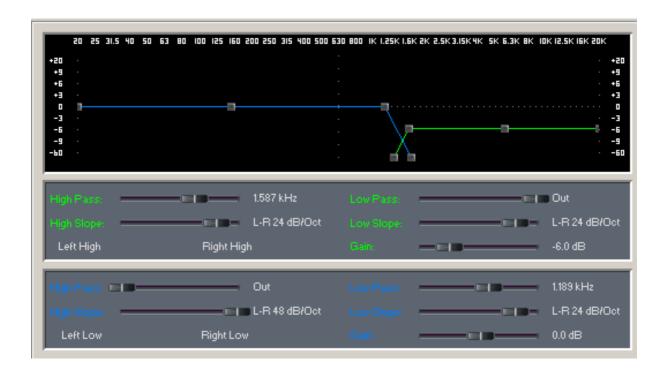








FR15B/1 Crossover





FR15B/2

Technical Specifications

Acoustic cabinet: FR15B

Description: 2 Way System. 15" and High Frequency unit

Power AES: 800 W.

Power Program: 1.600 W.

Sensitivity 2,83v @ 1m: 100 dB.

Max. SPL continuous: 129 dB.

Max. SPL peak: 135 dB.

Frequency response: 45 - 20.000Hz.

Coverage (H x V): 80° x 50°

Bass Loudspeakers: 15P80ND

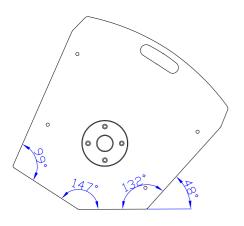
Compression Driver: CP-755TI

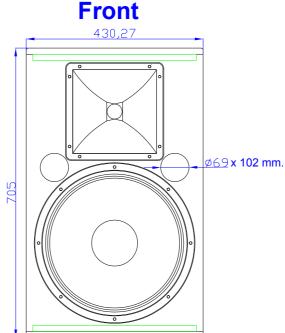
Constant Directivity Horn: TD-385

Crossover: External

Hardware: External

Base



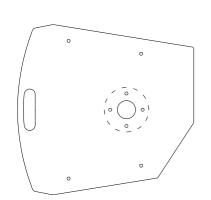


Lateral 445,54

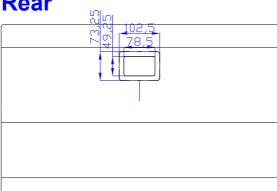


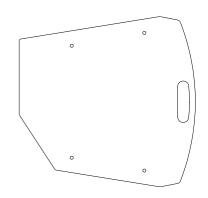


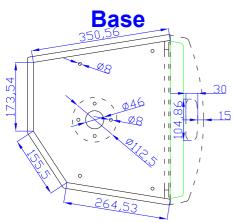
FR15B/2 CAD







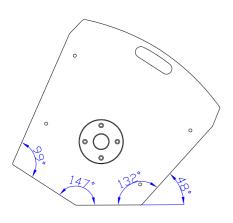


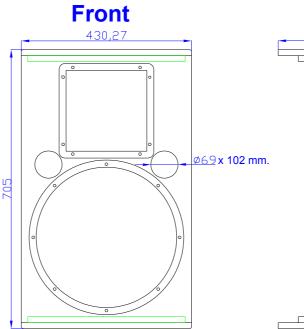


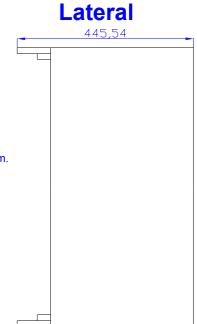
Front

Cenital 391 267,91 392,25 444,73

Base









CABCABINETS

FR15B/2 Drivers

15P80Nd

KEY FEATURES

- Real 800 W AES power handling
- Sensitivity: 100 dB @ 2.83V
- 4" Duo Technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 7.5 mm.
- Massive mechanical displacement capability: 52 mm p-p



TECHNICAL SPECIFICATIONS

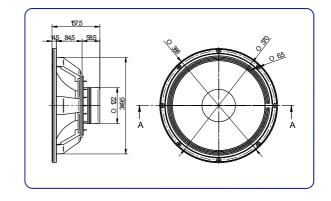
 Nominal diameter 380 mm. 15 in. • Rated impedance 8 ohms • Minimum impedance 6.6 ohms Power capacity* 800 w AES 1600 w Program power

 Sensitivity 100 dB 2.83v @ 1m @ 2π

30 - 5000 Hz • Frequency range Voice coil diameter 100 mm. 4 in. 4.62 kg. 10.16 lb. • Magnetic assembly weight BL factor 23.6 N / A • Voice coil length 20 mm 12 mm · Air gap height • X damage (peak to peak) 52 mm

"The power capacity is determined according to AES2-1984 (r2003) standard Program power is defined as the transducer's ability to handle normal music p

DIMENSION DRAWINGS



CP-755Ti

KEY FEATURES

- Composite structure diaphragm (Titanium dome & Mylar surround)
- Optimized titanium phasing plug
- Superior high frequencies sound reproduction quality
- Extended frequency response (0.6 20 kHz)
- High sensitivity (110 dB)



TECHNICAL SPECIFICATIONS

 Throat diameter 3.6 mm. 1.4" Rated impedance 8 ohms • D.C. Resistance 5.5 ohms

 Power capacity* 90 w AES above 1 kHz • Program power 180 w above 1 kHz Sensitivity** 110 dB 1w @ 1m • Frequency range 600-20000 Hz Voice coil diameter 72.2 mm. 2.87 in.

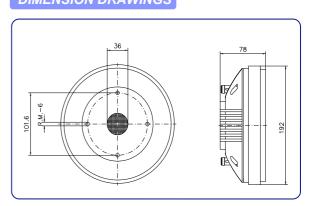
• Recommended Crossover 800 Hz or higher (12 dB/oct. min.)

· Net weight 6.75 kg. 14.85 lb.

The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

*Sensitivity was measured at 1 m distance, on axis, with 1 w input, averaged in the range 1 - 7 kHz and Coupled to a TD565 horn.





beyma 🎵



FR15B/2 Drivers

TD-385

KEY FEATURES

- Designed for compression drivers with 1.4" throat diameter
- It provides uniform response, on and off-axis with a neutral and natural frequency reproduction
- \bullet Coverage angles of $80^{\rm o}$ in the horizontal plane and $50^{\rm o}$ in the vertical plane
- Precise directivity control in the pass band
- Its square form provides more versatility when mounting in the enclosure



Throat diameterHorizontal beamwidth

Vertical beamwidth 50° (+29° (-6 dB, 1.6
 Directivity factor (Q) 12.4 (aver

Directivity factor (Q)
 Directivity index (DI)
 Cutoff frequency

• Dimensions (WxHxD)

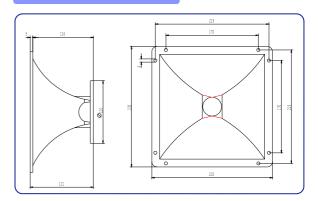
• Cutout dimensions (WxH)

Net weightShipping weightConstruction

80° (+16°, -32°) (-6 dB, 1 - 20 kHz) 50° (+29°, -14°) (-6 dB, 1.6 - 20 kHz) 12.4 (average 0.63 - 16 kHz) 10.5 dB (+3.5 dB, -3.2 dB) 800 Hz 235x235x120 mm. 9.25x9.25x4.72 in. 204x202 mm. 8.03x7.95 in. 1.2 kg. 2.64 lb. 1.53 kg. 3.37 lb.

36 mm 14 in

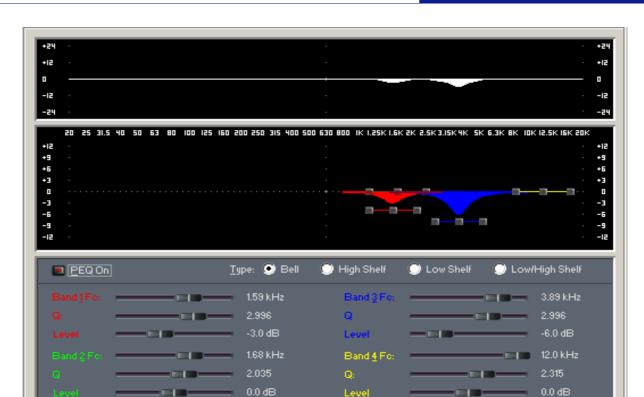
Cast aluminium. Connection of driver by four screws on a 101.6 mm. diameter bolt circle.

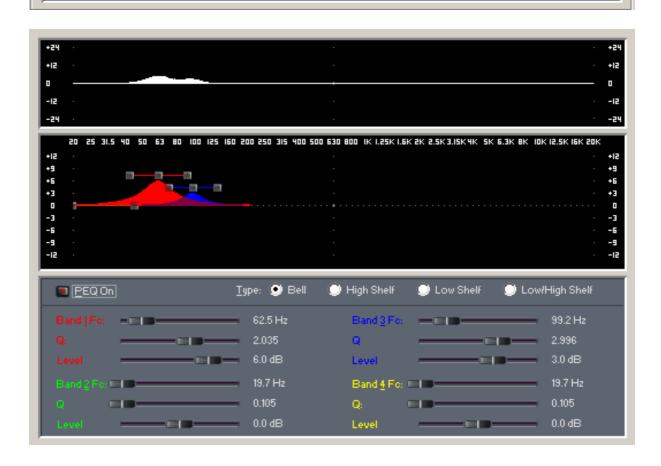






FR15B/2 Presets

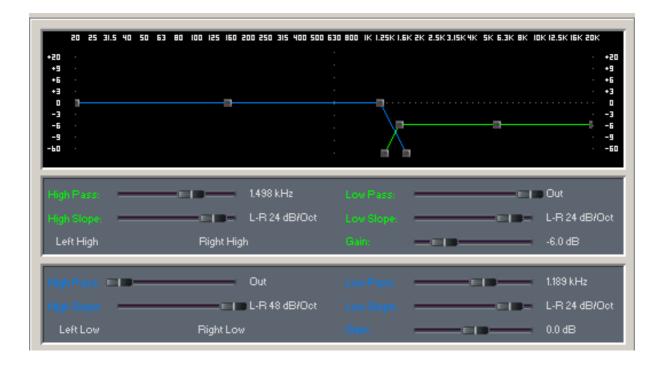








FR15B/2 Crossover







FR15B/3

Acoustic cabinet: FR15B

Technical Specifications

Description: 2 Way System. 15" and High Frequency unit

Power AES: 400 W.
Power Program: 800 W.

Sensitivity 2,83v @ 1m: 99 dB.

Max. SPL continuous: 125 dB.

Max. SPL peak: 131 dB.

Frequency response: 43 - 20.000Hz.

Coverage (H x V): 80° x 50°

Bass Loudspeakers: 15MW/ND

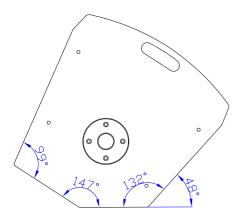
Compression Driver: SMC65/ND

Constant Directivity Horn: TD-385

Crossover: FP-15B/3

Hardware: External

Base

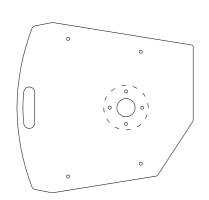


445,54

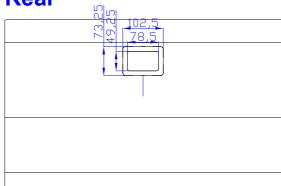


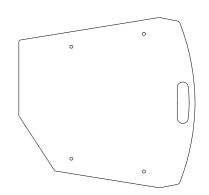


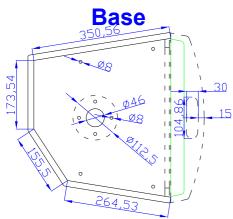
FR15B/3 CAD











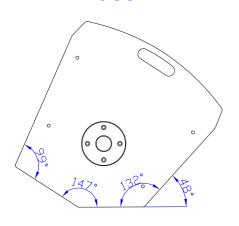
Front Solution Soluti

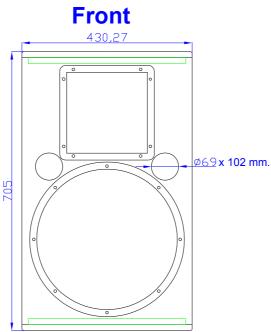
645 675 705

Cenital

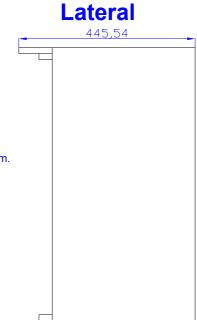
267,91
392,25
444,73

Base





219,99





FR15B/3 Drivers

15MWNd

KEY FEATURES

- Good power handling (400 W AES)
- Excelent sensitivity (99 dB)
- Extended frequency response (30 3500 Hz)
- Neodymium magnet system
- · Aluminium customized basket



TECHNICAL SPECIFICATIONS

Nominal diameter
Rated impedance
Minimum impedance
Power capacity*
Program power
380 mm. 15 in.
8 ohms
5.8 ohms
400 w AES
800 w

• Sensitivity 99 dB 2.83v @ 1m @ 2π

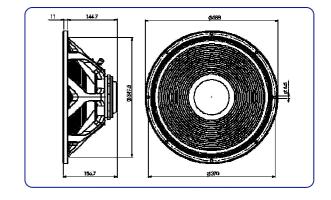
• Frequency range
• Voice coil diameter
• Magnetic assembly weight
• BL factor
• Voice coil length
• Air gap height
• X damage (peak to peak)
• Frequency range
30 - 3500 Hz
62.4 mm. 2.5 in.
2.54 kg. 5.59 lb.
17.2 N / A
17.5 mm
10 mm
27.5 mm

Notes:

"The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

DIMENSION DRAWINGS



SMC65Nd

KEY FEATURES

- Composite structure diaphragm (Titanium dome & Mylar surround)
- 3" edgewound aluminium ribbon voice coil
- Excelent high frequencies sound reproduction quality
- Extended frequency response (0.6 20 kHz)
- Low weight Neodymium magnet
- High sensitivity (108 dB)



TECHNICAL SPECIFICATIONS

Throat diameter
Rated impedance
D.C. Resistance
3.6 mm. 1.4"
8 ohms
5.5 ohms

Power capacity*
Program power
Sensitivity**
Frequency range
Voice coil diameter
70 w AES above 1 kHz
140 w above 1 kHz
108 dB 1w @ 1m
600- 20000 Hz
72.2 mm. 2.87 in.

• Recommended Crossover 800 Hz or higher (12 dB/oct. min.)

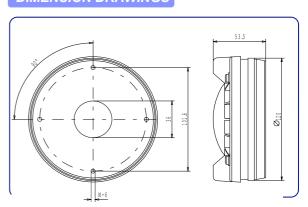
• Net weight 2.2 kg. 4.84 lb.

Notes

*The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

"Sensitivity was measured at 1 m distance, on axis, with 1 w input, averaged in the range 1 - 7 kHz and Coupled to a TD385 hom.







FR15B/3 Drivers

TD-385

KEY FEATURES

- Designed for compression drivers with 1.4" throat diameter
- It provides uniform response, on and off-axis with a neutral and natural frequency reproduction
- Coverage angles of 80° in the horizontal plane and 50° in the vertical plane
- Precise directivity control in the pass band
- Its square form provides more versatility when mounting in the enclosure

TECHNICAL SPECIFICATIONS

Throat diameter
 Horizontal beamwidth
 Vertical beamwidth
 Wertical beamwidth
 1.4 in.
 80° (+16°, -32°) (-6 dB, 1 - 20 kHz)
 50° (+29°, -14°) (-6 dB, 1.6 - 20 kHz)

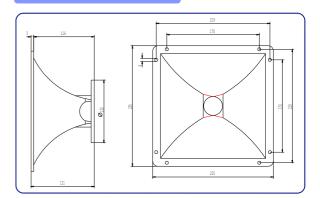
• Directivity factor (Q) 12.4 (average 0.63 - 16 kHz)
• Directivity index (DI) 10.5 dB (+3.5 dB, -3.2 dB)

• Cutoff frequency 800 Hz

Dimensions (WxHxD)
 235x235x120 mm.
 9.25x9.25x4.72 in.
 Cutout dimensions (WxH)
 204x202 mm.

Net weight
Shipping weight
Construction
8.03x7.95 in.
1.2 kg. 2.64 lb.
1.53 kg. 3.37 lb.
Cast aluminium.

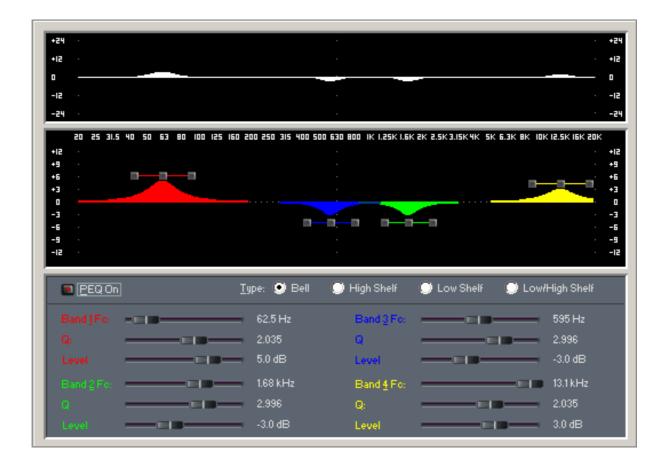
Connection of driver by four screws on a 101.6 mm. diameter bolt circle.



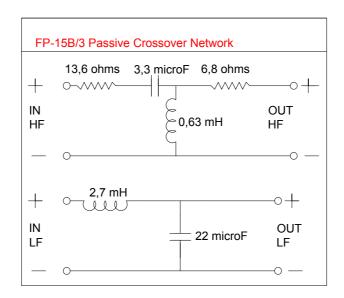




FR15B/3 Presets



FR15B/3 Crossover







FR15B/4



Technical Specifications

Acoustic cabinet: FR15B

Description: 2 Way System. 15" and High Frequency unit

Power AES: 700 W.

1.400 W. Power Program:

97 dB. Sensitivity 2,83v @ 1m:

Max. SPL continuous: 125 dB.

131 dB. Max. SPL peak:

Frequency response: 43 - 20.000Hz.

Coverage (H x V): 80° x 50°

Bass Loudspeakers: 15G40

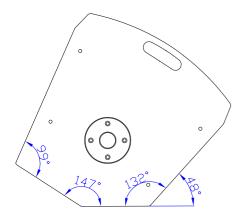
Compression Driver: SMC65/ND

Constant Directivity Horn: TD-385

FP-15B/4 Crossover:

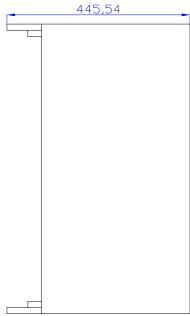
External Hardware:

Base



Front 430,27 Ø69 x 102 mm.

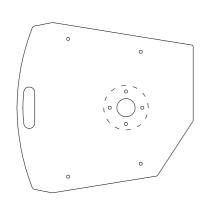
Lateral



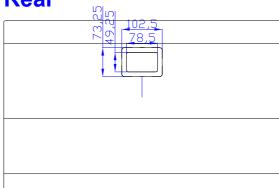


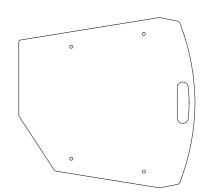


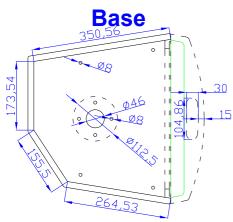
FR15B/4 CAD









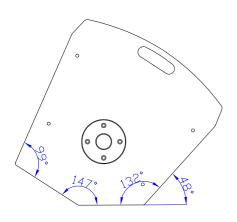


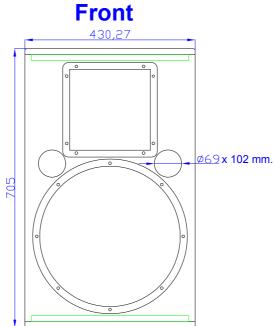
645 675 705

Cenital

(1)
(267,91
392,25
444,73

Base









FR15B/4 Drivers

15G40

KEY FEATURES

- High power handling (700 W AES)
- Waterproof paper cone
- 4" edgewound copper voice coil with polyimide fiber glass former
- Optimum winding length for increased linear excursion
- Spiders of improved temperature behaviour, retaining good mechanical properties at high power



TECHNICAL SPECIFICATIONS

 Nominal diameter 380 mm. 15 in. • Rated impedance 8 ohms • Minimum impedance 7 ohms Power capacity* 700 w AES 1400 w • Program power

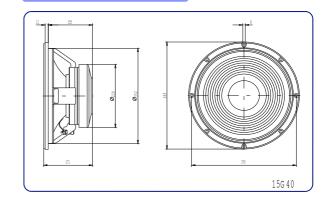
 Sensitivity 97 dB 2.83v @ 1m @ 2π

25 - 1500 Hz • Frequency range Voice coil diameter 100 mm. 4 in. 9 kg. 19.8 lb. • Magnetic assembly weight BL factor 23 N / A • Voice coil length 23 mm Air gap height 9.5 mm • X damage (peak to peak) 33 mm

"The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

DIMENSION DRAWINGS



SMC65Nd

KEY FEATURES

- Composite structure diaphragm (Titanium dome & Mylar surround)
- 3" edgewound aluminium ribbon voice coil
- · Excelent high frequencies sound reproduction quality
- Extended frequency response (0.6 20 kHz)
- · Low weight Neodymium magnet
- High sensitivity (108 dB)



TECHNICAL SPECIFICATIONS

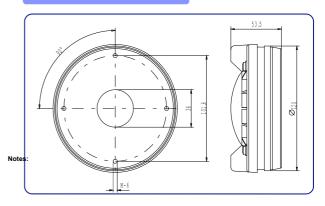
• Throat diameter 3.6 mm. 1.4" Rated impedance 8 ohms • D.C. Resistance 5.5 ohms

70 w AES above 1 kHz Power capacity* Program power 140 w above 1 kHz Sensitivity** 108 dB 1w @ 1m Frequency range 600- 20000 Hz Voice coil diameter 72.2 mm. 2.87 in.

• Recommended Crossover 800 Hz or higher (12 dB/oct. min.)

 Net weight 2.2 kg. 4.84 lb.

*The power capacity is determined according to AES2-1984 (r2003) standard.
Program power is defined as the transducer's ability to handle normal music program material.
**Sensitivity was measured at 1 m distance, on axis, with 1 w input, averaged in the range 1 - 7 kHz and Coupled to a TD385 horn.







FR15B/4 Drivers

TD-385

KEY FEATURES

- Designed for compression drivers with 1.4" throat diameter
- It provides uniform response, on and off-axis with a neutral and natural frequency reproduction
- \bullet Coverage angles of $80^{\rm o}$ in the horizontal plane and $50^{\rm o}$ in the vertical plane
- Precise directivity control in the pass band
- Its square form provides more versatility when mounting in the enclosure

TECHNICAL SPECIFICATIONS

Throat diameter
 Horizontal beamwidth
 Vertical beamwidth
 Wertical beamwidth
 1.4 in.
 80° (+16°, -32°) (-6 dB, 1 - 20 kHz)
 50° (+29°, -14°) (-6 dB, 1.6 - 20 kHz)

Directivity factor (Q)
 Directivity index (DI)
 Cutoff frequency

 Cutoff frequency

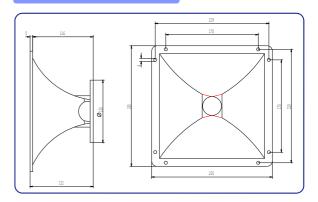
 (-0 dB, 1.0 - 20 kHz)
 12.4 (average 0.63 - 16 kHz)
 10.5 dB (+3.5 dB, -3.2 dB)
 800 Hz

Cutoff frequencyDimensions (WxHxD)235x235x120 mm.

9.25x9.25x4.72 in.
• Cutout dimensions (WxH) 204x202 mm.
8.03x7.95 in.

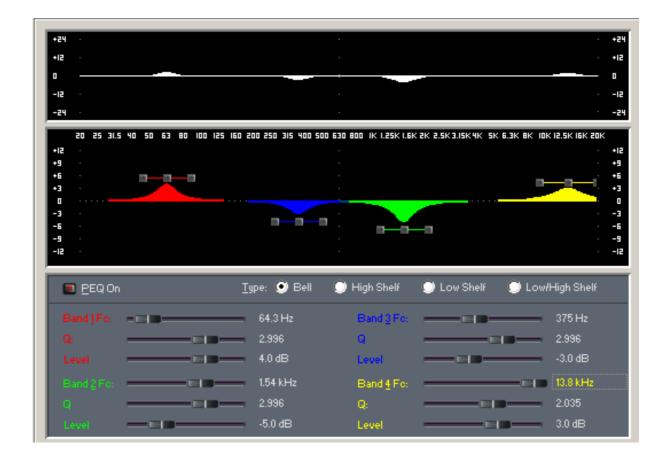
Connection of driver by four screws on a 101.6 mm. diameter bolt circle.



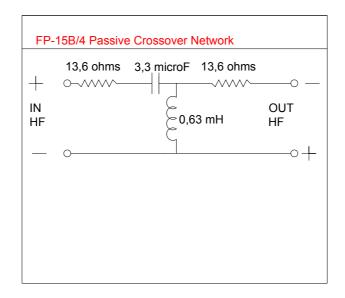




FR15B/4 Presets



FR15B/4 Crossover







SB15/1

Technical Specifications

Acoustic cabinet: SB15

Description: Bass reinforcement. 15" Subwoofer

Power AES: 1.200 W.

Power Program: 2.400 W.

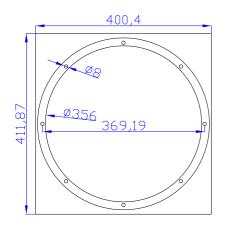
Sensitivity 2,83v @ 1m: 100 dB.

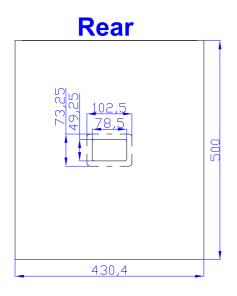
Max. SPL continuous: 131 dB.

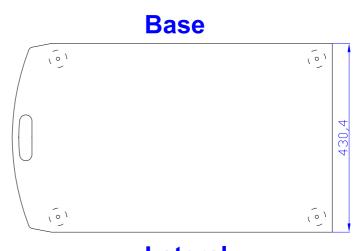
Max. SPL peak: 137 dB.

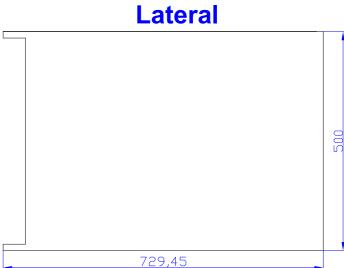
Frequency response: 35 - 200 Hz.

Bass Loudspeakers: 15P1200ND





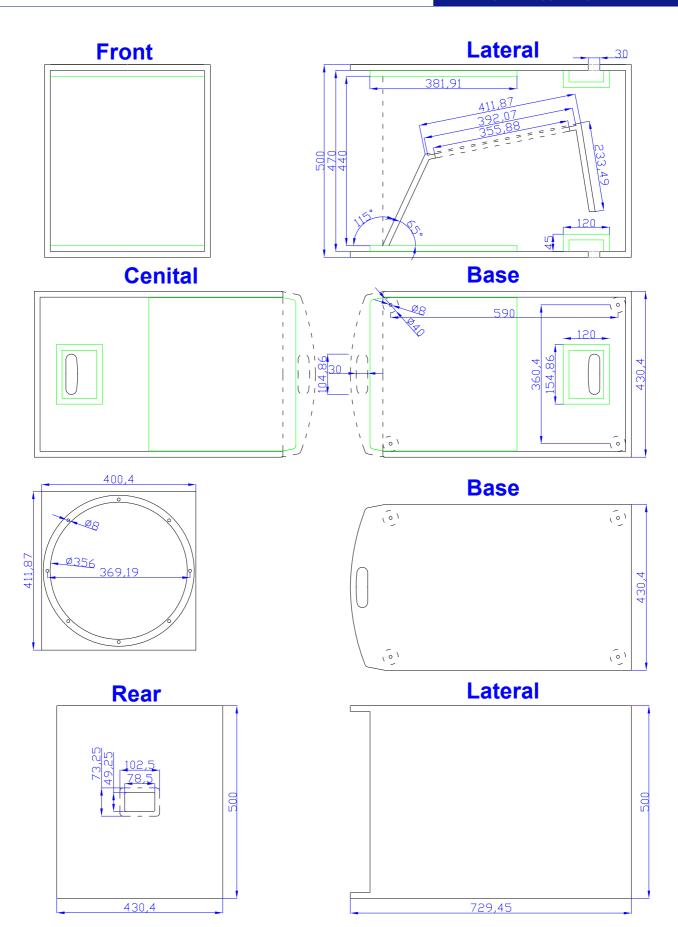






SB15/1 CAD









SB15/1 Drivers

15P1200Nd

KEY FEATURES

- Real 1200 W AES power handling
- Sensitivity: 97 dB @ 2.83V
- 4" Duo Technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 9.5 mm.
- Massive mechanical displacement capability: 52 mm p-p



TECHNICAL SPECIFICATIONS

• Nominal diameter 380 mm. 15 in. Rated impedance 8 ohms 6.1 ohms • Minimum impedance Power capacity* 1200 w AES 2400 w • Program power

 Sensitivity 97 dB 2.83v @ 1m @ 2π

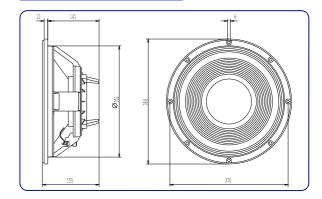
• Frequency range 30 - 2000 Hz Voice coil diameter 100 mm. 4 in. · Magnetic assembly weight 6 kg. 13.2 lb. BL factor 26.3 N / A • Voice coil length 25 mm · Air gap height 14 mm • X damage (peak to peak) 52 mm

Notes:

"The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

DIMENSION DRAWINGS



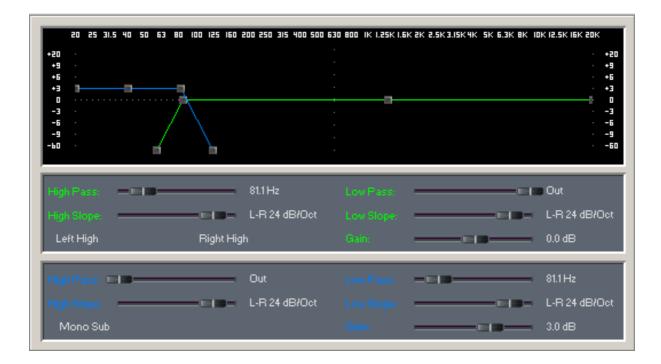
SB15/1 Presets







SB15/1 Crossover







SB15/2

Technical Specifications

Acoustic cabinet: SB15

Description: Bass reinforcement. 15" Subwoofer

Power AES: 1.000 W.

Power Program: 2.000 W.

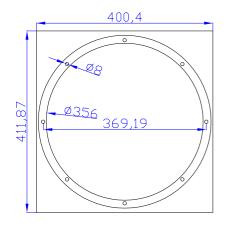
Sensitivity 2,83v @ 1m: 100 dB.

Max. SPL continuous: 130 dB.

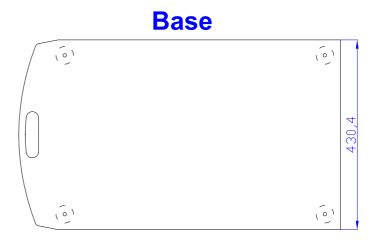
Max. SPL peak: 136 dB.

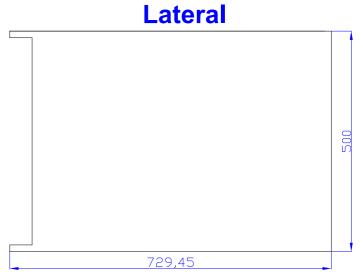
Frequency response: 35 - 200 Hz.

Bass Loudspeakers: 15P1000ND



Rear 50,5 78,5 102,5 78,5 102,5 430,4



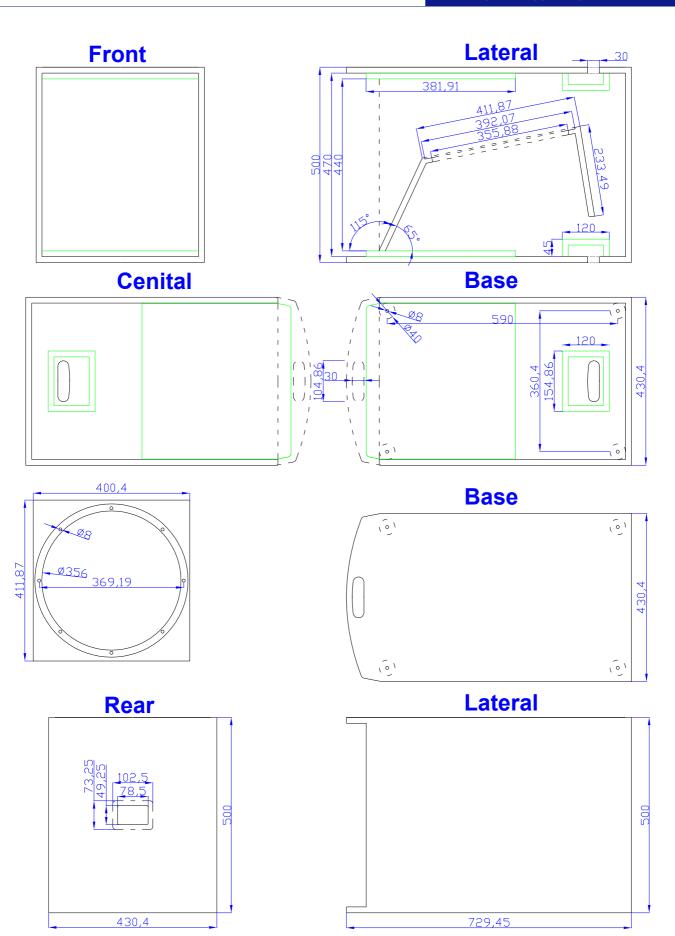




CABCABINETS

SB15/2 CAD







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SB15/2 Drivers

15P1000Nd

KEY FEATURES

- Real 1000 W AES power handling
- Sensitivity: 97 dB @ 2.83V
- 4" Duo Technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 8 mm.
- Massive mechanical displacement capability: 52 mm p-p



TECHNICAL SPECIFICATIONS

Nominal diameter
Rated impedance
Minimum impedance
Power capacity*
Program power
380 mm. 15 in.
8 ohms
6.3 ohms
1000 w AES
2000 w

• Sensitivity 97 dB 2.83v @ 1m @ 2π

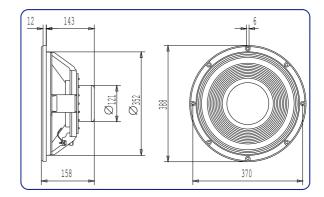
Frequency range
Voice coil diameter
Magnetic assembly weight
BL factor
Voice coil length
Air gap height
X damage (peak to peak)
30 - 2000 Hz
4.62 kg. 10.16 lb.
24.3 N / A
21 mm
12 mm
52 mm

Notes

*The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

DIMENSION DRAWINGS



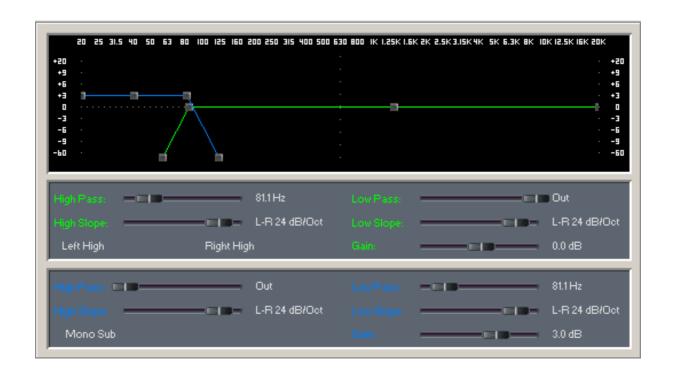
SB15/2 Presets







SB15/2 Crossover





SB15/3

Technical Specifications

Acoustic cabinet: SB15

Description: Bass reinforcement. 15" Subwoofer

Power AES: 800 W.

Power Program: 1.600 W.

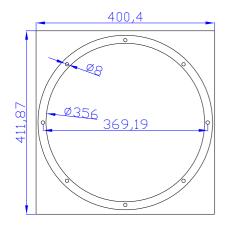
Sensitivity 2,83v @ 1m: 103 dB.

Max. SPL continuous: 132 dB.

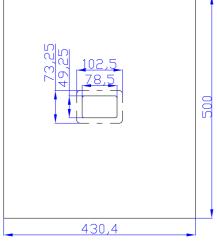
Max. SPL peak: 138 dB.

Frequency response: 40 - 200 Hz.

Bass Loudspeakers: 15P80ND



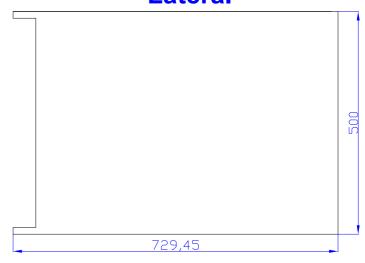
Rear



Base



Lateral

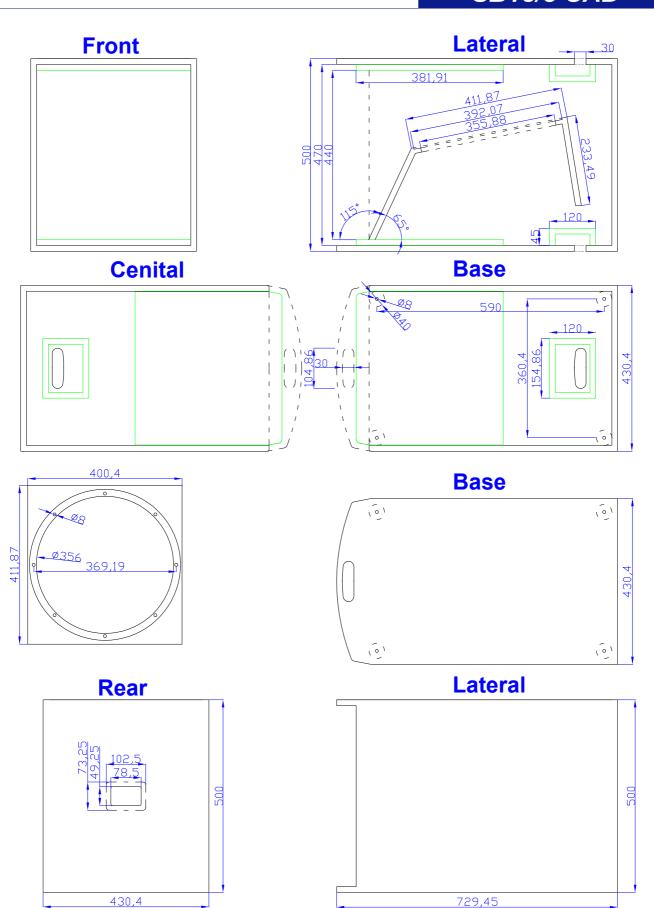




CABCABINETS

SB15/3 CAD

PROFESSIONAL LOUDSPEAKERS





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SB15/3 Drivers

15P80Nd

KEY FEATURES

- Real 800 W AES power handling
- Sensitivity: 100 dB @ 2.83V
- 4" Duo Technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 7.5 mm.
- Massive mechanical displacement capability: 52 mm p-p



TECHNICAL SPECIFICATIONS

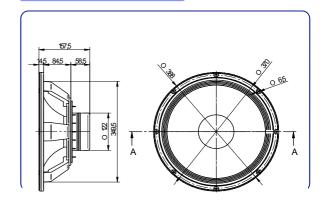
Nominal diameter
 Rated impedance
 Minimum impedance
 Power capacity*
 Program power
 380 mm. 15 in.
 6 ohms
 800 w AES
 1600 w

• Sensitivity 100 dB 2.83v @ 1m @ 2π

Frequency range
Voice coil diameter
Magnetic assembly weight
BL factor
Voice coil length
Air gap height
X damage (peak to peak)
30 - 5000 Hz
4.62 kg. 10.16 lb.
23.6 N / A
20 mm
12 mm
52 mm

Notes

DIMENSION DRAWINGS



SB15/2 Presets



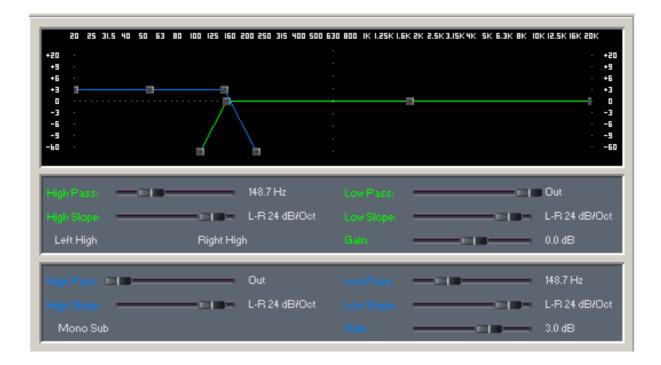
[&]quot;The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.





SB15/3 Crossover





SB18/1

Technical Specifications

Acoustic cabinet: SB18

Description: Bass reinforcement. 18" subwoofer.

Power AES: 1.200 W.

Power Program: 2.400 W.

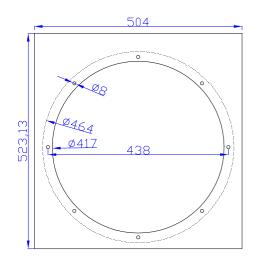
Sensitivity 2,83v @ 1m: 101 dB.

Max. SPL continuous: 132 dB.

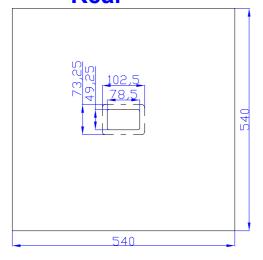
Max. SPL peak: 138 dB.

Frequency response: 33 - 200 Hz

Bass Loudspeakers: 18P1200ND



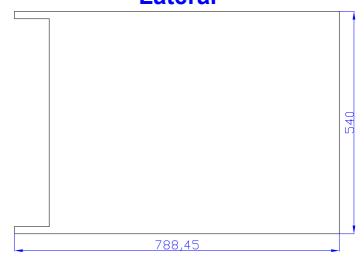
Rear



Base



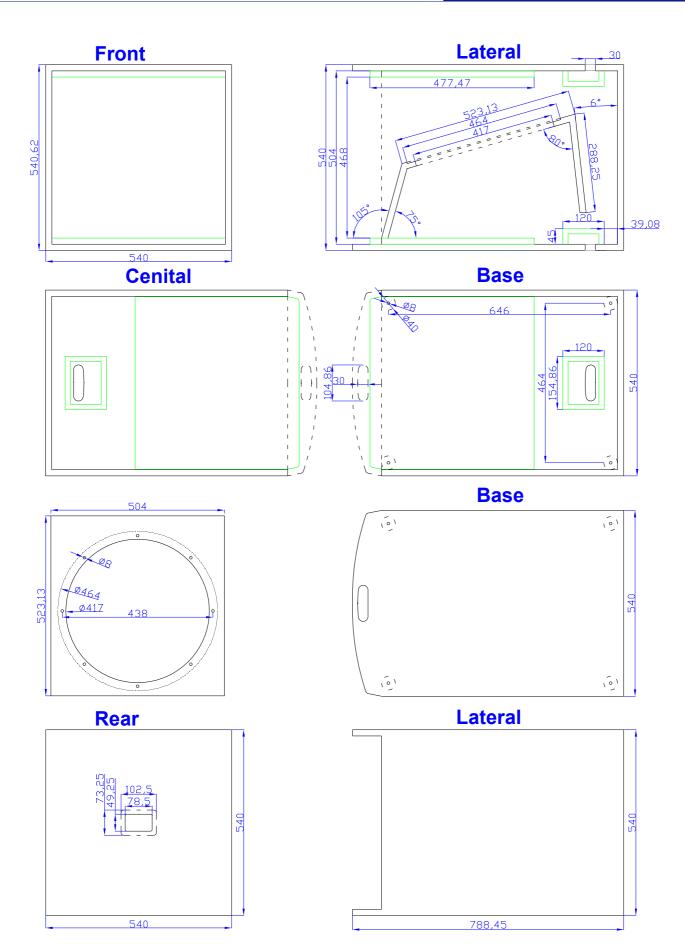
Lateral





SB18/1 CAD

PROFESSIONAL LOUDSPEAKERS







SB18/1 Drivers

18P1200Nd

KEY FEATURES

- Real 1200 W AES power handling
- Sensitivity: 98 dB @ 2.83V
- 4" Duo Technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 9.5 mm.
- Massive mechanical displacement capability: 52 mm p-p



TECHNICAL SPECIFICATIONS

 Nominal diameter 460 mm. 18 in. Rated impedance 8 ohms • Minimum impedance 6 ohms 1200 w AES Power capacity* • Program power 2400 w

 Sensitivity 98 dB 2.83v @ 1m @ 2π

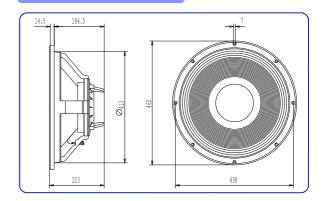
• Frequency range 25 - 2000 Hz Voice coil diameter 100 mm. 4 in. • Magnetic assembly weight 6 kg. 13.2 lb. 26.3 N / A BL factor · Voice coil length 25 mm 14 mm Air gap height • X damage (peak to peak) 52 mm

Notes:

"The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

DIMENSION DRAWINGS

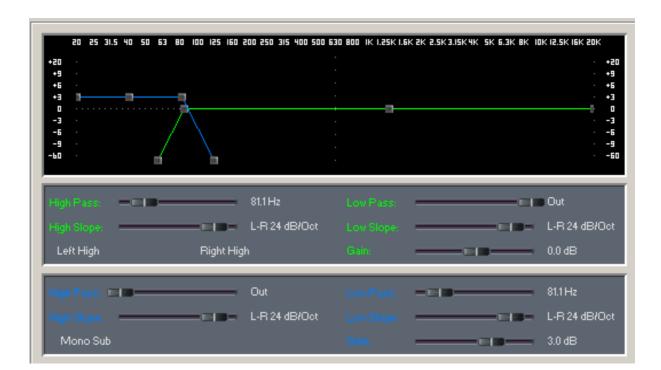


SB18/1 Presets





SB18/1 Crossover





SB18/2

Technical Specifications

Acoustic cabinet: SB18

Description: Bass reinforcement. 18" subwoofer.

Power AES: 1.000 W.

Power Program: 2.000 W.

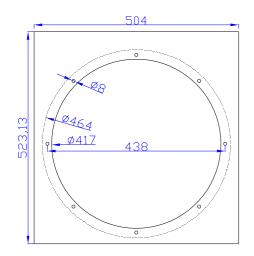
Sensitivity 2,83v @ 1m: 101 dB.

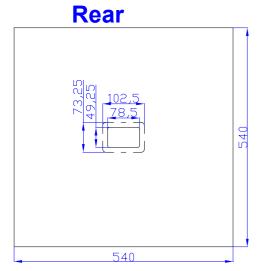
Max. SPL continuous: 131 dB.

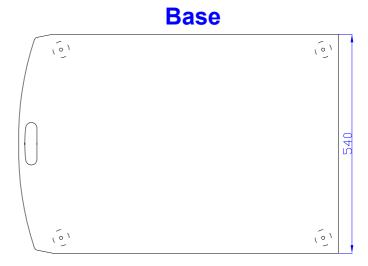
Max. SPL peak: 137 dB.

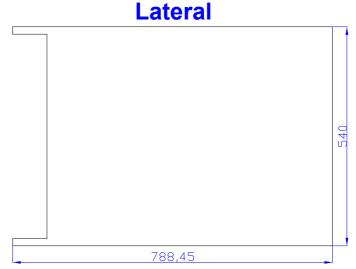
Frequency response: 33 - 200 Hz.

Bass Loudspeakers: 18P1000ND







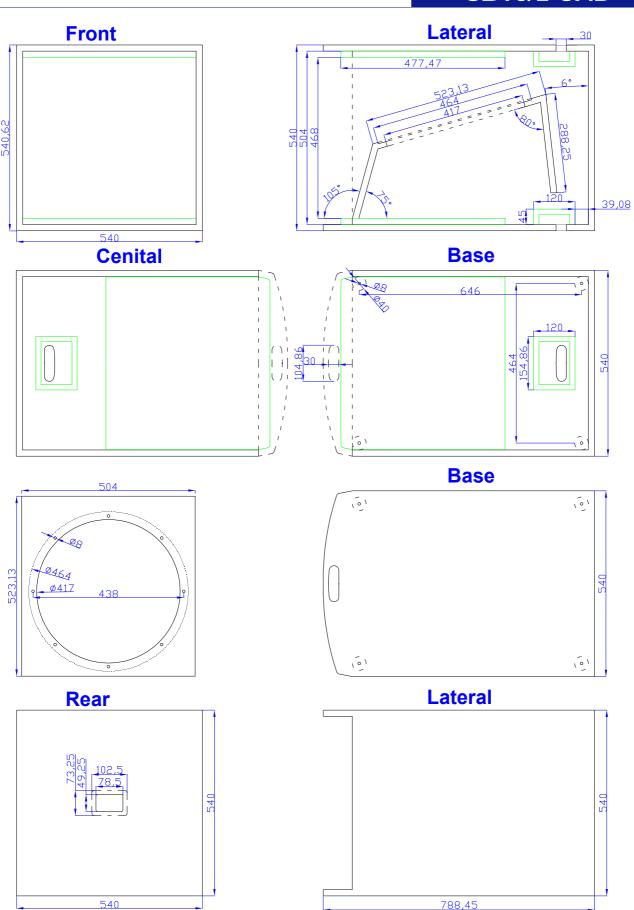




CABCABINETS

SB18/2 CAD

PROFESSIONAL LOUDSPEAKERS





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SB18/2 Drivers

18P1000Nd

KEY FEATURES

- Real 1000 W AES power handling
- Sensitivity: 98 dB @ 2.83V
- 4" Duo Technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 8 mm.
- Massive mechanical displacement capability: 52 mm p-p



TECHNICAL SPECIFICATIONS

460 mm. 18 in. Nominal diameter Rated impedance 8 ohms • Minimum impedance 6.2 ohms Power capacity* 1000 w AES • Program power 2000 w

 Sensitivity 98 dB 2.83v @ 1m @ 2π

• Frequency range 25 - 2000 Hz Voice coil diameter 100 mm. 4 in. 4.62 kg. 10.16 lb. Magnetic assembly weight • BL factor 24.3 N / A • Voice coil length 21 mm · Air gap height 12 mm

• X damage (peak to peak)

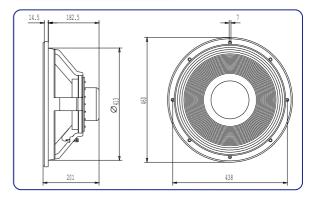
Notes:

*The power capacity is determined according to AES2-1984 (r2003) standard.

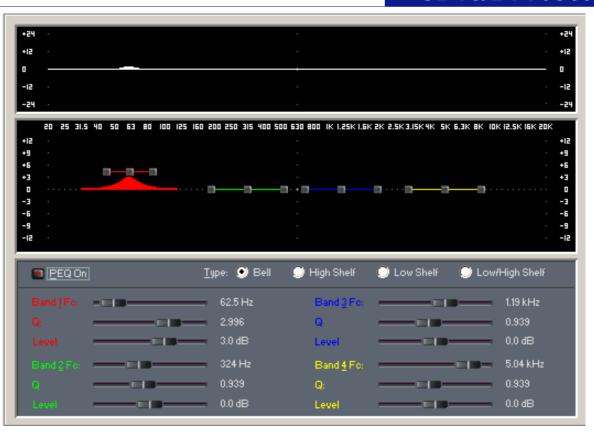
Program power is defined as the transducer's ability to handle normal music program material.

52 mm

DIMENSION DRAWINGS



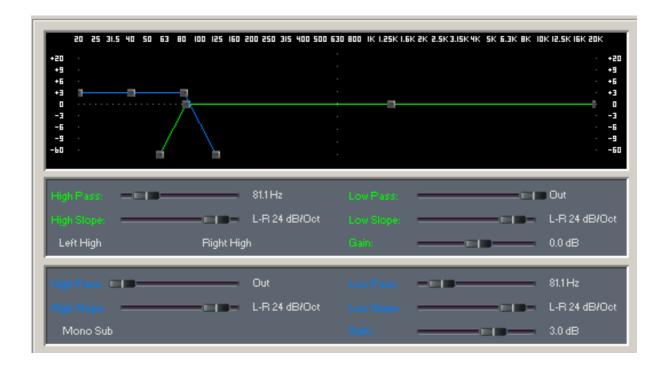
SB18/2 Presets







SB18/2 Crossover







SB18/3

Technical Specifications

Acoustic cabinet: SB18

Description: Bass reinforcement. 18" subwoofer.

Power AES: 800 W.

Power Program: 1.600 W.

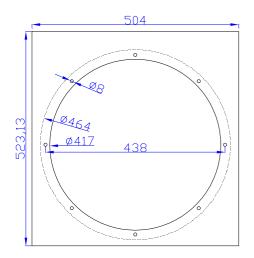
Sensitivity 2,83v @ 1m: 102 dB.

Max. SPL continuous: 131 dB.

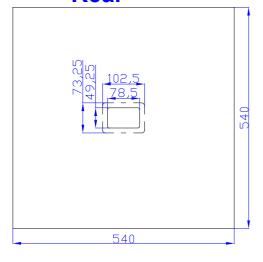
Max. SPL peak: 137 dB.

Frequency response: 37 - 200 Hz.

Bass Loudspeakers: 18P80ND



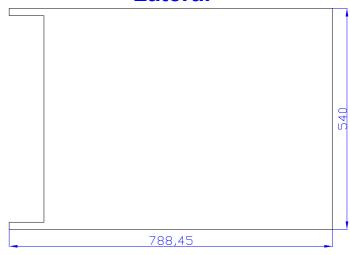
Rear



Base



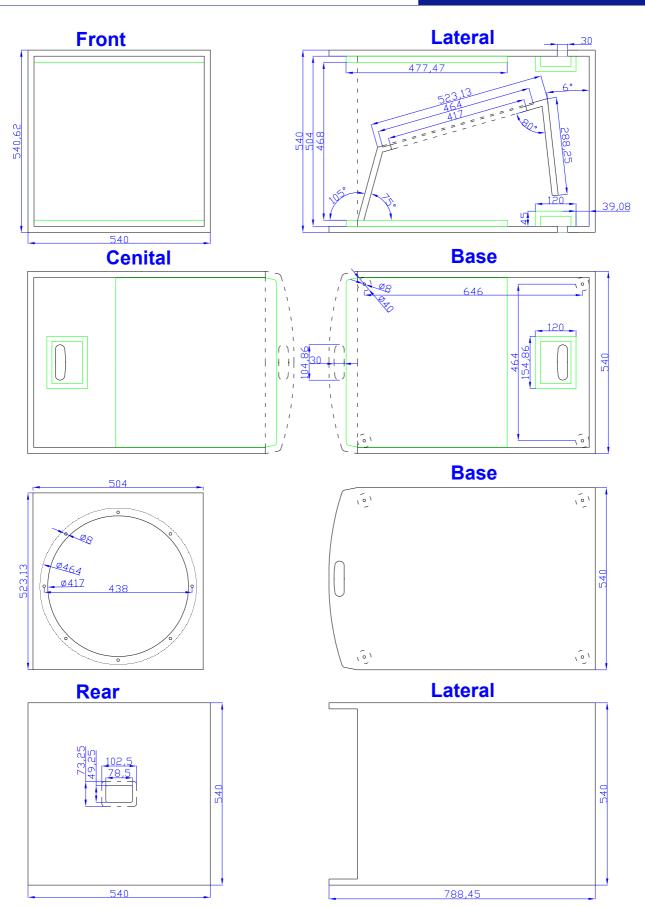
Lateral







PROFESSIONAL LOUDSPEAKERS SB18/3 CAD







SB18/3 Drivers

18P80Nd

KEY FEATURES

- Real 800 W AES power handling
- Sensitivity: 100 dB @ 2.83V
- 4" Duo Technology voice coil
- Carbon fiber reinforced paper cone
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 7.5 mm.
- Massive mechanical displacement capability: 52 mm p-p



TECHNICAL SPECIFICATIONS

Nominal diameter
Rated impedance
Minimum impedance
Power capacity*
Program power
460 mm. 18 in.
8 ohms
5.8 ohms
800 w AES
1600 w

• Sensitivity 100 dB 2.83v @ 1m @ 2π

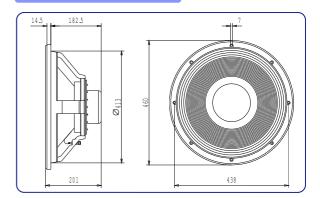
Frequency range
Voice coil diameter
Magnetic assembly weight
BL factor
Voice coil length
Air gap height
X damage (peak to peak)
25 - 4000 Hz
4.62 kg. 10.16 lb.
21.9 N / A
20 mm
12 mm
52 mm

Notes

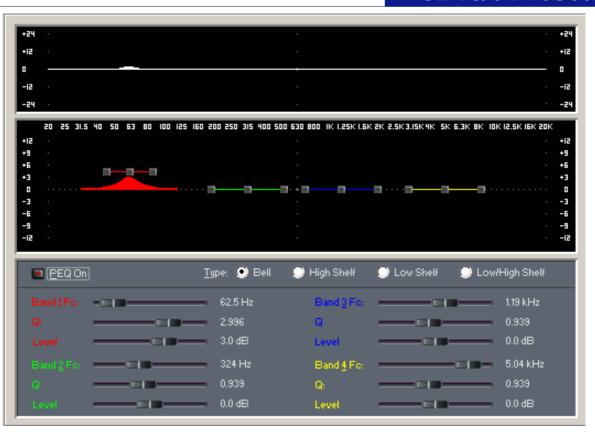
"The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

DIMENSION DRAWINGS

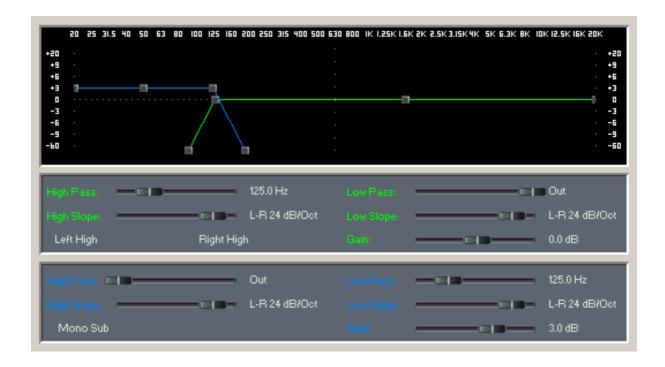


SB18/3 Presets





SB18/3 Crossover









Technical Specifications

Acoustic cabinet: SM15

Description: Stage monitor. 15" coaxial

Power AES: 350 W.

Power Program: 700 W.

Sensitivity 2,83v @ 1m: 99 dB.

Max. SPL continuous: 124 dB.

Max. SPL peak: 130 dB.

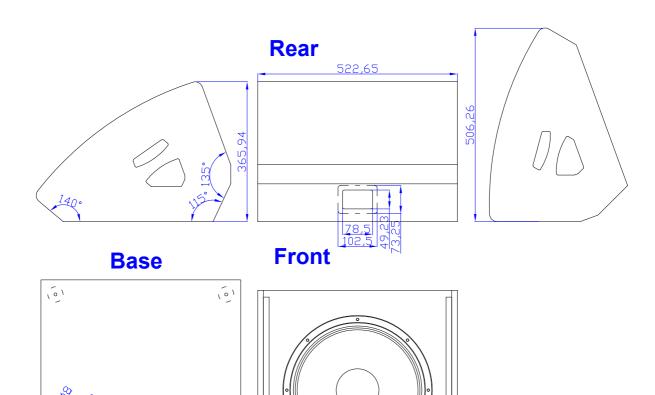
Frequency response: 43 - 20.000Hz.

Coverage (H x V): 80° conical

Loudspeaker: 15XA38ND

(0)

Crossover: FC-15/1

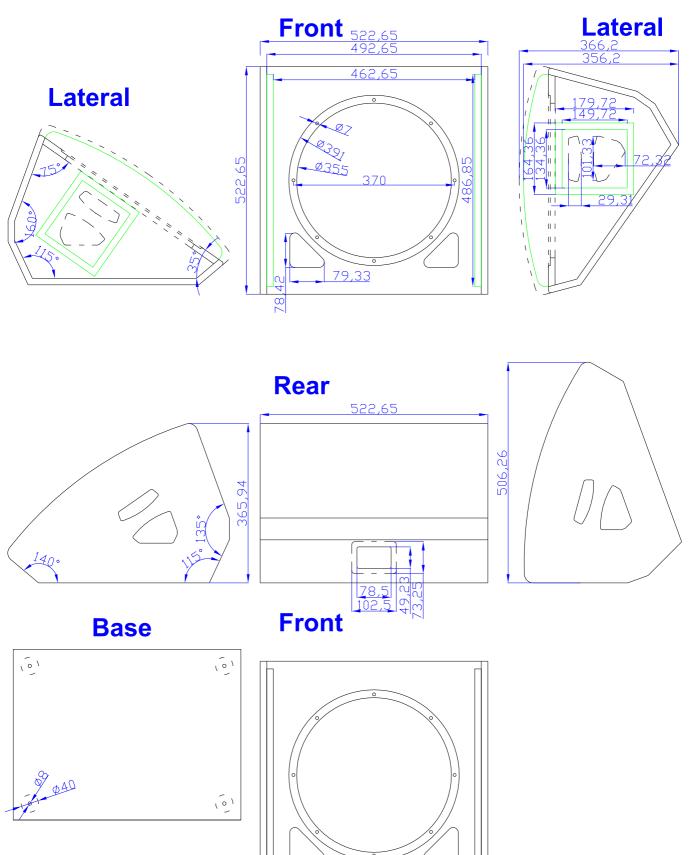






SM15/1 CAD









SM15/1 Drivers

PROFESSIONAL LOUDSPEAKERS

15XA38Nd

KEY FEATURES

- 15" bass loudspeaker and 2" exit compression driver combination
- Excelent power handling: 350 W AES (LF unit) 90 W AES (HF unit)
- Extended and linear frequency response (25-20000 Hz)
- High sensitivity: 99 dB (LF unit) 105 dB (HF unit)
- Low weight (common neodymium magnet system for both units)
- Bass loudspeaker designed for compact bass reflex cabinets



TECHNICAL SPECIFICATIONS

LF Unit

 Nominal diameter 380 mm. 15 in. 8 ohms • Rated impedance • Minimum impedance 7.6 ohms Power capacity* 350 w AES • Program power 700 w

 Sensitivity 99 dB 2.83v @ 1m @ 2π

• Frequency range 25 - 3500 Hz 100 mm. 4 in. Voice coil diameter · Magnetic assembly weight 4.2 kg. 9.24 lb. 18.2 N / A • BL factor · Voice coil length 16 mm • Air gap height 9 mm • X damage (peak to peak) 28 mm

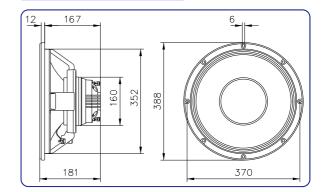
HF Unit

 Throat diameter 50.8 mm. 2 in Rated impedance 16 ohms 90 w AES above 1 kHz Power capacity*

• Program power 180 w above 1 kHz 105 dB 1w @ 1m • Sensitivity** • Frequency range 500-20000 Hz 72.2 mm. 2.87 in. Voice coil diameter

Notes:
*The power capacity is determined according to AES2-1984 (r2003) standard.
Program power is defined as the transducer's ability to handle normal music program material

DIMENSION DRAWINGS

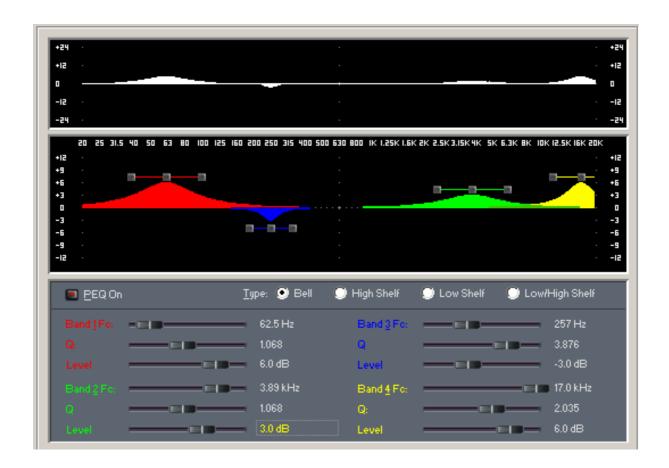




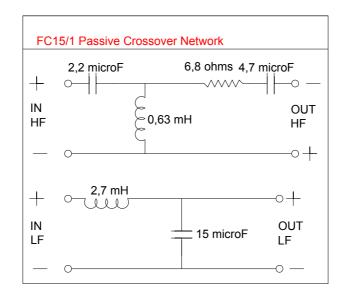
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SM15/1 Presets



SM15/1 Crossover









Technical Specifications

Acoustic cabinet: SM15

Description: Stage monitor. 15" coaxial.

Power AES: 300 W.

Power Program: 600 W.

Sensitivity 2,83v @ 1m: 99 dB.

Max. SPL continuous: 124 dB.

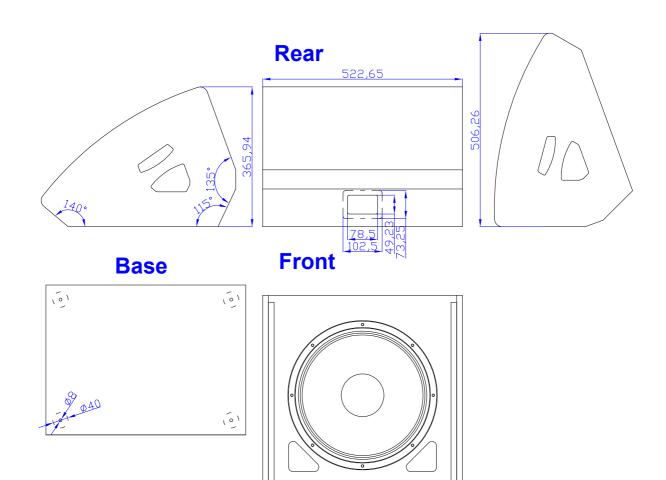
Max. SPL peak: 130 dB.

Frequency response: 43 - 17.000Hz.

Coverage (H x V): 90° conical

Loudspeaker: 15KX

Crossover: FC-15/2

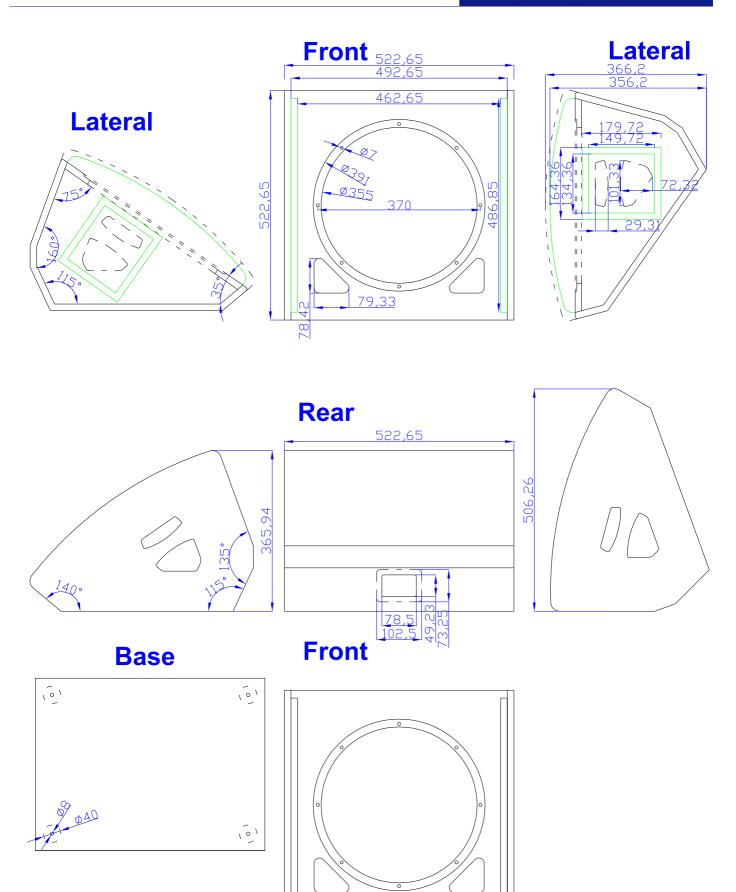






SM15/2 CAD

PROFESSIONAL LOUDSPEAKERS







SM15/2 Drivers

15KX

KEY FEATURES

- 15" bass loudspeaker and 2" exit compression driver combination
- Excelent power handling: 300 W AES (LF unit) 100 W AES (HF unit)
- Titanium diaphragm compression driver
- Low weight thanks to the common magnet system for both units
- · Coherent response
- · Bass loudspeaker designed for compact bass reflex cabinets



TECHNICAL SPECIFICATIONS

LF Unit

 Nominal diameter 380 mm. 15 in. Rated impedance 8 ohms Minimum impedance 7.3 ohms 300 w AES Power capacity* • Program power 600 w

 Sensitivity 99 dB 2.83v @ 1m @ 2π

25 - 3000 Hz • Frequency range Voice coil diameter 77 mm. 3 in. 6.4 kg. 14.11 lb. · Magnetic assembly weight 14.5 N / A • BL factor Voice coil length 13 mm · Air gap height 8 mm 28 mm • X damage (peak to peak)

HF Unit

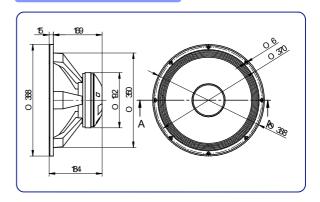
• Throat diameter 50.8 mm. 2 in • Rated impedance 8 ohms Power capacity* 100 w AES • Program power 200 w above 1 kHz Sensitivity** 105 dB 1w @ 1m 800- 17000 Hz • Frequency range · Voice coil diameter 72.2 mm. 2.87 in. • Dispersion 90° conical

Notes:

*The power capacity is determined according to AES2-1984 (r2003) standard.

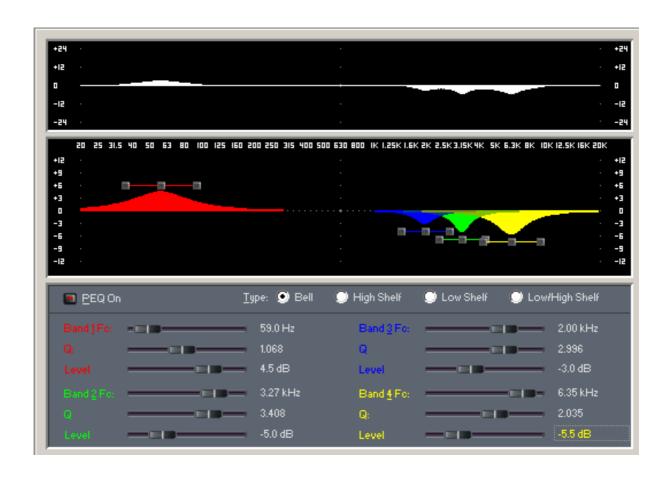
Program power is defined as the transducer's ability to handle normal music program material.

DIMENSION DRAWINGS





SM15/2 Presets



SM15/2 Crossover

