

# Blackline F215<sup>+</sup>

Two-way passive reflex with dual bass drivers

## features

- ▶ Very high SPL from a full range passive enclosure
- ▶ Extended low frequency performance from dual 15" (380mm) low distortion drivers
- ▶ User rotatable 80° x 50° horn
- ▶ 1.4" (35mm) exit titanium dome compression driver
- ▶ Five year limited warranty

## applications

- ▶ Live sound reinforcement
- ▶ Drum monitor
- ▶ Nightclub installations
- ▶ Sidefill monitor



The **Blackline F215<sup>+</sup>** is a two-way passive, trapezoidal enclosure with dual 15" (380mm)/3" (75mm) coil low frequency drivers and a 1.4" (35mm) exit titanium diaphragm compression driver, mounted on a proprietary, rotatable, 80° x 50° constant directivity horn.

Below 250Hz, both LF drivers operate together to produce low frequencies, whilst above 250Hz, only the upper LF driver is used to reproduce the midrange up to the crossover point. This technique avoids the uneven response which would occur if both drivers were allowed to operate together over the midband.

Each of the two new LF drivers features a tough, water resistant cone and a lightweight, high BL, neodymium motor system with inside/outside coil windings for improved heat transfer. An aluminium demodulating ring improves the midrange performance at high levels and increased excursion is available via a triple roll surround and deep motor structure.

The trapezoidal enclosure is of multi-laminate birch ply construction incorporating a tough punched steel grille. Two large ports permit uncompressed low frequency output at high input levels. Handles are fitted top and bottom along with four 4" (100mm) rear mounted castors for ease of transportation. Twelve M10 flying inserts are provided for cabinet rigging.

The F215<sup>+</sup> can be used with or without a controller. Use of the M3<sup>+</sup> or DX1 will enhance the low frequency performance of the system and provide high quality limiters to protect the F215<sup>+</sup> from being overdriven. The M3<sup>+</sup> or DX1 can also be used to control the F215<sup>+</sup> with the Blackline S218<sup>+</sup> subwoofer for more ambitious nightclub installations and live sound reinforcement requiring extreme low frequency output.

professional

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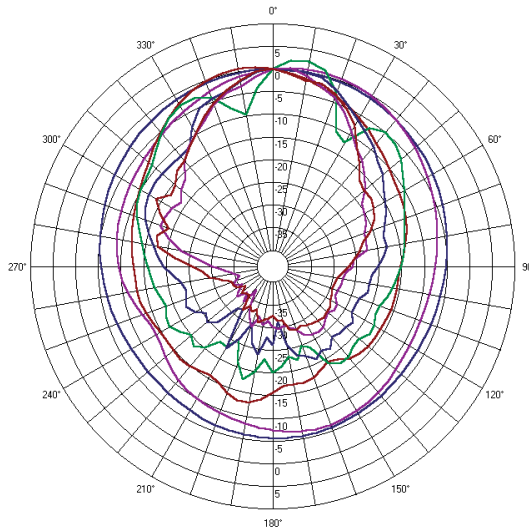


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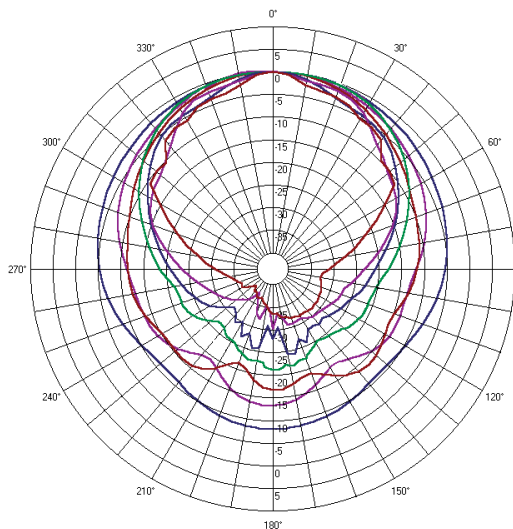
polar plots

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## F215<sup>+</sup> Vertical

- 200Hz & 1/3 8ve
- 400Hz & 1/3 8ve
- 800Hz & 1/3 8ve
- 1600Hz & 1/3 8ve
- 3200Hz & 1/3 8ve
- 6400Hz & 1/3 8ve
- 12800Hz & 1/3 8ve



## F215<sup>+</sup> Horizontal

- 200Hz & 1/3 8ve
- 400Hz & 1/3 8ve
- 800Hz & 1/3 8ve
- 1600Hz & 1/3 8ve
- 3200Hz & 1/3 8ve
- 6400Hz & 1/3 8ve
- 12800Hz & 1/3 8ve

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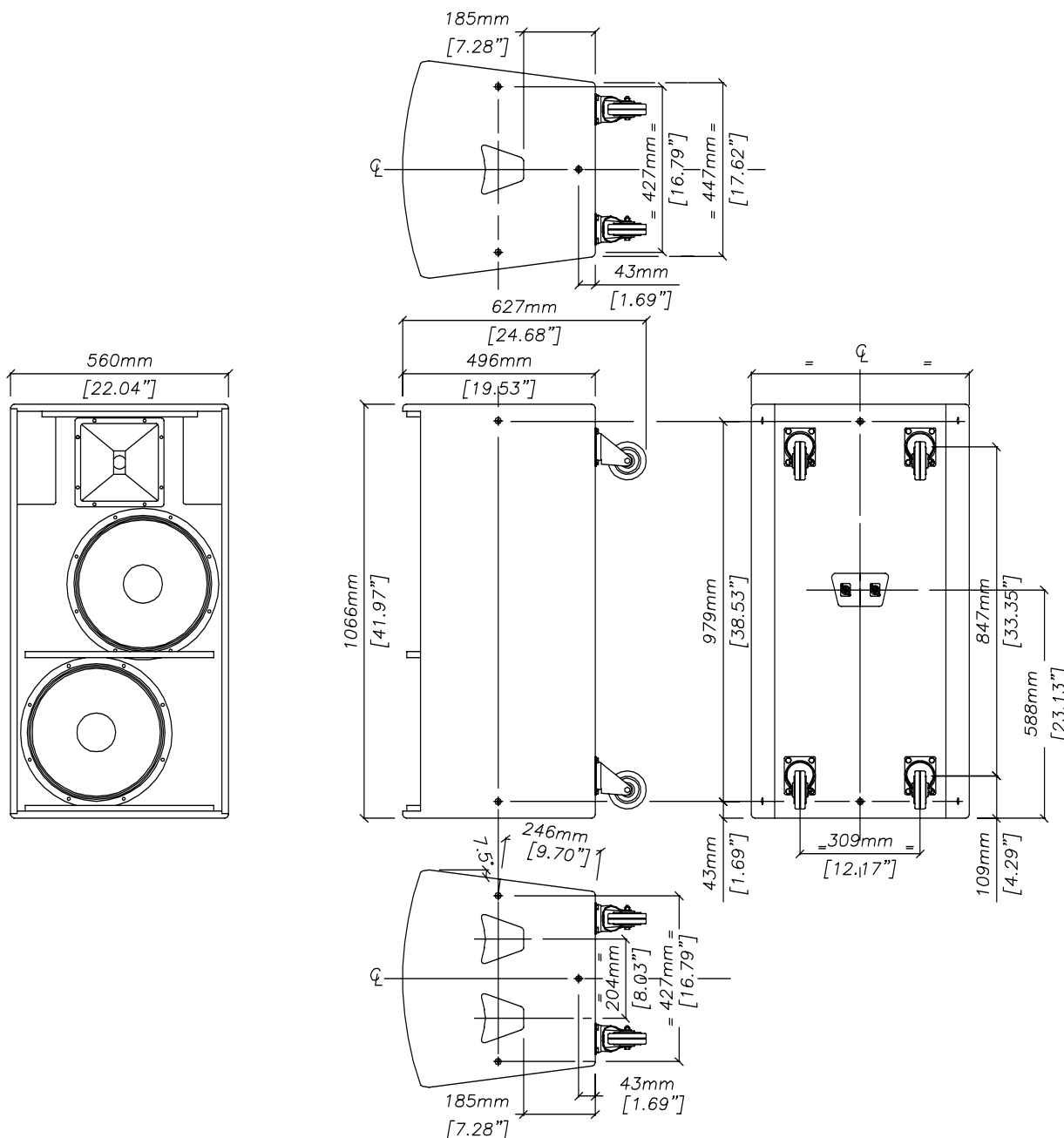


# Blackline F215+

Two-way passive reflex with dual bass drivers

overall dimensions

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F215+

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Two-way passive reflex with dual bass drivers

professional

## technical specifications

|                         |  |
|-------------------------|--|
| TYPE                    | Two-way passive reflex with dual bass drivers.   |
| FREQUENCY RESPONSE (5)  | 45Hz-18kHz $\pm$ 3dB<br>-10dB @ 40Hz   |
| DRIVERS                 | 2 x 15" (380mm)/3" (75mm) voice coil,<br>neodymium magnet LF drivers<br>1.4" (35mm) exit HF compression driver |
| RATED POWER (2)         | 800W AES, 3200W peak   |
| RECOMMENDED AMPLIFIER   | 600W-1500W into 4 ohms   |
| SENSITIVITY (6)         | 101dB  |
| MAXIMUM SPL (7)         | 128dB continuous, 134dB peak   |
| NOMINAL IMPEDANCE       | 4 ohms   |
| DISPERSION (-6dB)       | 80° horizontal, 50° vertical   |
| CROSSOVER               | 1.4 kHz passive  |
| ENCLOSURE               | 180 litre, multi-laminate birch ply  |
| FINISH                  | Textured black paint   |
| PROTECTIVE GRILLE       | Black perforated steel   |
| CONNECTORS              | 2 x Neutrik NL4  |
| PIN CONNECTIONS         | FR+, - : 1+, 1-, Link thro': 2+, 2-  |
| FITTINGS                | 12 x M10 threaded inserts<br>4 x 4" (100mm) castors<br>3 x pocket handles                                      |
| DIMENSIONS (inc wheels) | (W) 560mm x (H) 1066mm x (D) 496mm (627mm)<br>(W) 22ins x (H) 42ins x (D) 19.5ins (24.7)                       |
| WEIGHT                  | 59 kg (130lbs)   |

## accessories

HTKCT06 10mm Shouldered Eye Bolt for  
F215<sup>+</sup>, H3<sup>+</sup>, H3T<sup>+</sup>, H3H<sup>+</sup>

### Notes

- (1) Measured on-axis in half space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4 $\pi$ ) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4 $\pi$ ) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4 $\pi$ ) space at 2 metres using band limited pink noise, then referred to 1 metre.

### Trade Descriptions Act

Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining state of the art sound reinforcement, combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin Audio product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.

## architectural and engineering specifications

The loudspeaker system shall be of the two-way passive type consisting of two 15" (380mm)/3" (75mm) voice coil direct radiating reflex loaded low frequency transducers and one 1.4" (35mm) exit titanium diaphragm HF compression driver mounted on a user rotatable constant directivity horn in a trapezoidal enclosure. Below 250Hz both LF drivers shall operate together to produce low frequencies whilst above 250Hz only the upper driver shall operate to reproduce the midrange up to the crossover point. The enclosure shall be of a multi-laminate birch ply construction with threaded inserts for wall and ceiling mounting and fitted with 3 pocket handles and 4" (100mm) castors for easy deployment. Low and high frequency sections shall be integrated by an internal 1.4kHz passive crossover network.

Performance of the loudspeaker system with its electronic controller shall meet or exceed the following criteria:

Frequency response measured 1 metre on axis shall be 45Hz-18kHz  $\pm$  3dB.

High frequency dispersion at -6dB points shall be 80°H x 50°V.

Power handling shall be 800W AES, 3200W peak.

Rated impedance shall be 4 ohms.

Maximum SPL measured at 1 metre on axis shall be 128dB continuous, 134dB peak.

Dimensions (W) 560mm x (H) 1066mm x (D) 496mm (22ins x 42ins x 19.5ins).

Weight 59kg (130lbs).

The loudspeaker system shall be the Martin Audio F215<sup>+</sup>.

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