Blackline F12+
Compact, two-way passive system

features
- Compact two-way passive system
- User rotatable 80˚ x 50˚ horn
- Top hat fitting for speaker stand mounting
- Five year limited warranty

applications
- Live club performance
- Floor monitor
- Club installs
- AV presentations

The Blackline F12+ is a high power, compact two-way system with a new, vented-chassis, 12” (300mm) LF driver and a new 1” (25mm) exit compression driver mounted on a rotatable 80˚ x 50˚ constant directivity HF horn. The LF driver has a tough, water resistant cone and features a high BL motor with a flat-wire copper coil and an aluminium demodulating ring. This reduces intermodulation distortion and improves midrange performance when driven hard. Increased excursion is available by virtue of a triple roll surround and deep motor structure. The directivity of the LF driver has been matched to the HF horn in the crossover region by improved crossover design and cone profile optimisation, also the new HF compression driver utilises an ultra-lightweight Kapton diaphragm for extended high frequency response.

The F12+ is the ideal choice for fullrange applications calling for an efficient, reliable workhorse that is equally suitable for fixed installations or quick deployment mobile operations. Its ergonomic design and rotatable HF horn makes near-ceiling mounting and aiming easy in venues with restricted height, whilst its multi-angle birch ply cabinet also allows it to be used as a highly intelligible floor monitor. Ten M8 inserts and four M8 bracket inserts make a variety of mounting methods possible including horizontal or vertical mounting.

The F12+ comes with a top hat fitting for speaker stand mounting. This fitting can also be used as a pole socket when the F12+ is used with a Blackline S15+ or S18+ subwoofer.

A Martin Audio M3+ or DX1.5 Electronic Controller is available to provide F12+/subwoofer crossover and limiter facilities.
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F12+ 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

F12+ 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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398mm [15.65”]
365mm [14.39”]
51mm [2.01”]
70mm [2.76”]
16mm [0.63”]
126mm [4.96”]
238mm [9.37”]
502mm [19.75”]
195mm [7.68”]
170mm [6.69”]
485mm [19.09”]
571mm [22.48”]
262mm [10.32”]
= 142mm [5.61”]
37mm [1.45”]
166mm [6.54”]

F12+
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architectural and engineering specifications

The loudspeaker system shall be of the two-way passive type consisting of one 12" (300mm)/2.5" (63.5mm) voice coil direct radiating reflex loaded low frequency transducer and one 1" (25mm) exit HF compression driver mounted on a user rotatable constant directivity horn in a multi-angled enclosure. The enclosure shall be of a multi-laminate birch ply construction with integral pole mount and threaded inserts for wall and ceiling mounting. Low and high frequency sections shall be integrated by an internal 2.2kHz 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 65Hz-18kHz ±3dB.
- High frequency dispersion at -6dB points shall be 80°H x 50°V.
- Power handling shall be 300W AES, 1200W peak.
- Rated impedance shall be 8 ohms.
- Maximum SPL calculated at 1 metre on axis shall be 122dB continuous, 128dB peak.

Theloudspeaker system shall be the Martin Audio F12+.

Notes

(1) Measured on-axis in half space at 2 metres, then referred to 1 metre.
(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 (4π) space at 2 metres, then referred to 1 metre.
(6) Measured in open (4π) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
(7) Measured in open (4π) space at 2 metres using band limited pink noise, then referred to 1 metre.
(8) Measured in open (4π) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.
(9) Calculated at 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 retaining 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.