

FH3



Three-way bi-amp trapezoid Hybrid® fully horn loaded

Features

- All-horn three-way system
- 'Phase-ball' loaded mid-driver
- Hybrid® LF section
- Fitted with handles and castors
- Horizontal format for low profile installs

Applications

- Larger club performance
- Large scale installs



The new FH3 is a very high performance, all-horn, three-way system in a single, horizontally formatted, wide-bandwidth package aesthetically designed to complement the Blackline3 collection.

High quality and unique drivers deliver exceptional performance in all bands. The Hybrid® low frequency section comprises a horn-loaded 15" (380mm)/4" (100mm) voice coil ultra-long-excursion neodymium magnet driver that is also reflex loaded to extend the LF output to below the natural cut-off point of the horn. The LF driver features a water resistant cone and triple roll surround for increased excursion.

The mid-horn of the FH3 has a unique 'phase-ball' loading device which maintains the constant directivity characteristics of the horn at the upper end of its range. It is driven by a 10" (250mm) midrange driver with an aluminium demodulating ring for improved high-mid clarity and reduced distortion when driven hard. The 70° x 40° HF section of the FH3 features a neodymium 1" (25mm) exit compression driver with a polyamide diaphragm for high sensitivity and extended HF performance. The internal mid/high passive crossover allows this three-way system to be driven in a bi-amp configuration.

A Martin Audio DX0.5 and DX4.0 Electronic Controller are available to provide FH3 crossover and limiter facilities.

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Technical Specifications

Acoustical

TYPE	Three-way bi-amp trapezoid Hybrid® fully horn loaded
FREQUENCY RESPONSE (5)	48Hz-18kHz ± 3dB
DRIVERS	15" (380mm)/4" (100mm) coil bass driver 10" (250mm)/2.5" (63.5mm) coil mid driver 1" (25mm) exit HF compression driver
RATED POWER (2)	LF: 1000W AES, 4000W peak MF + HF: 300W AES, 1200W peak
RECOMMENDED AMPLIFIER	iK42 or VIA5002/5004
SENSITIVITY (8)	LF: 104dB, MF + HF: 104dB
MAXIMUM SPL (9)	134dB continuous, 140dB peak
NOMINAL IMPEDANCE	LF: 8 ohms, MF + HF: 8 ohms
DISPERSION (-6dB)	70° horizontal, 40° vertical
CROSSOVER	200Hz active, 2kHz passive
ENCLOSURE	250 litre, multi-laminate birch ply
FINISH	Textured black paint
PROTECTIVE GRILLE	Black perforated steel
CONNECTORS	2 x Neutrik NL4
PIN CONNECTIONS	LF+,- : 1+,1- (MF + HF) +,- : 2+,2-
FITTINGS	12 x M10 inserts 4 x 4" (100mm) castors 4 x pocket handles
DIMENSIONS (inc wheels)	(W) 1066mm x (H) 560mm x (D) 780mm (911mm)
WEIGHT	(W) 42ins x (H) 22ins x (D) 30.7ins (35.9ins) 79kg (174.2lbs)

Accessories

HTKCT06

10mm Shouldered Eye Bolt for FH3

Notes

- (1) Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half (2pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4pi) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (8) Measured in open (4pi) space at 2 metres with 2.83v input, using band limited pink noise, then referred to 1 metre.
- (9) Calculated at 1 metre.
- (10) Measured in half (2pi) space at 2 metres with 2.83V input, 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.

