

Blackline H3H⁺

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
- ▶ Five year limited warranty

applications

- ▶ Larger club performance
- ▶ Large scale installs



The Blackline H3H⁺ is a very high performance, all-horn, three-way system in a single, horizontally formatted, wide-bandwidth package. New drivers have been developed for improved performance in all bands. The Hybrid™ low frequency section comprises a horn-loaded 15" (380mm)/4" (100mm) voice coil driver that is reflex loaded to extend the LF output to below the natural horn cut-off point. The new LF driver features a water resistant cone and triple roll surround for increased excursion.

The mid-horn of the H3H⁺ 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 new 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 H3H⁺ features a neodymium 1" (25mm) exit compression driver with a Kapton 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.

The H3H⁺ is configured in a horizontally formatted, trapezoidal birch ply cabinet and fitted with twelve M10 inserts to facilitate ease of mounting. The enclosure has generous pocket handles on the ends and rear castors are fitted as standard.

A Martin Audio M3⁺ or DX1 Electronic Controller is available to provide H3H⁺ crossover and limiter facilities.

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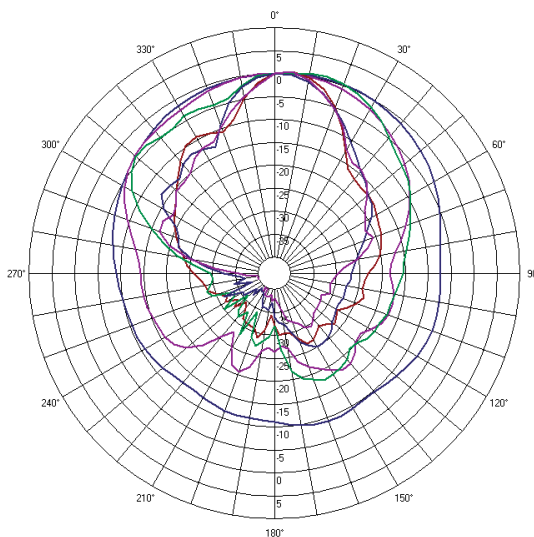
professional

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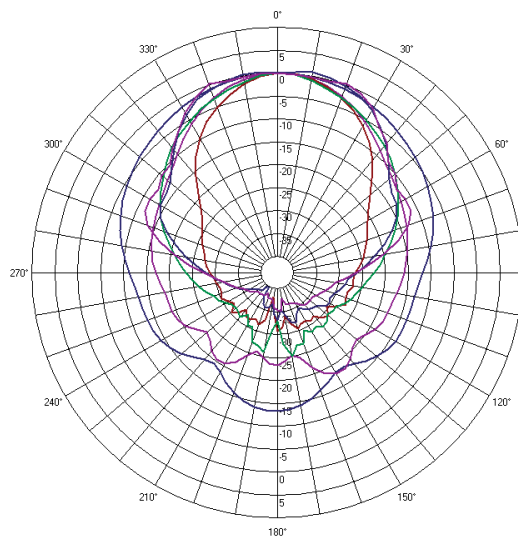
polar plots

professional



H3H⁺ 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



H3H⁺ 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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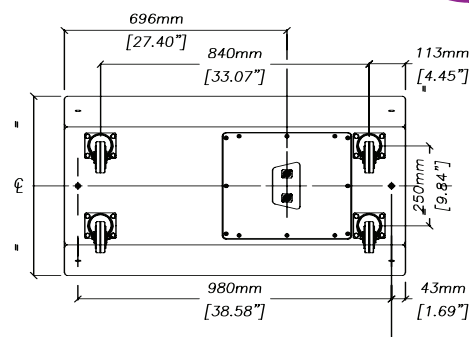
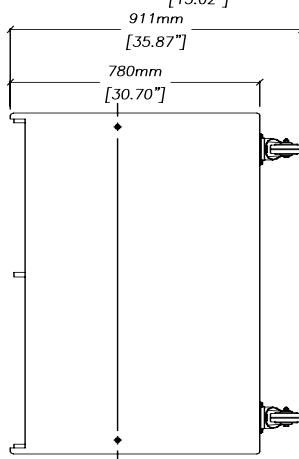
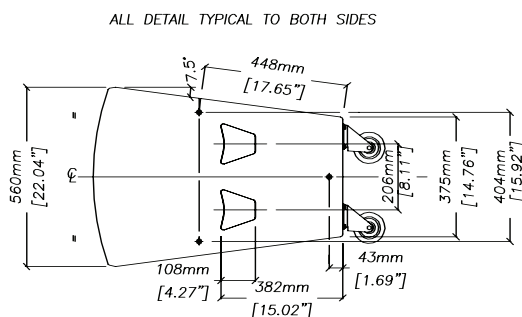
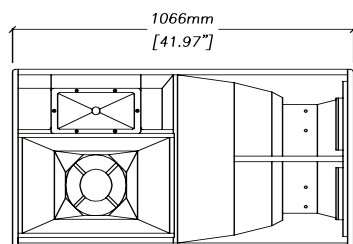


Blackline H3H⁺

Three-way bi-amp trapezoid Hybrid™
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overall dimensions

professional



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H3H+

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Three-way bi-amp trapezoid Hybrid™
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technical specifications

TYPE	Three-way bi-amp trapezoid Hybrid™ fully horn loaded
FREQUENCY RESPONSE (5)	50Hz-18kHz $\pm$ 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: 750W AES, 3000W peak MF + HF: 300W AES, 1200W peak
RECOMMENDED AMPLIFIER	LF: 400-1500W into 4 ohms MF + HF: 400-800W into 4 ohms
SENSITIVITY (6)	LF: 104dB, MF + HF: 104dB
MAXIMUM SPL (7)	131dB continuous, 137dB 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+, - : L+, L- (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) 77.5kg (170.5lbs)

accessories

HTKCT06 10mm Shouldered Eye Bolt for
F215⁺, H3⁺, H3T⁺, H3H⁺

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 π) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4 π) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4 π) 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 trapezoidal three-way bi-amp Hybrid™ fully horn-loaded type, horizontally formatted and consisting of one 15" (380mm)/4" (100mm) voice coil horn and reflex loaded low frequency transducer, one 10" (250mm)/2.5" (63.5mm) voice coil horn loaded mid frequency transducer with a "phase-ball" loading device and one 1" (25mm) exit titanium diaphragm HF compression driver mounted on a constant directivity horn. The enclosure shall be of a multi-laminate birch ply construction with threaded inserts to simplify mounting and fitted with 4 pocket handles and 4" (100mm) castors for easy deployment. The loudspeaker shall be operated with a separate electronic controller providing a 200Hz crossover between low and mid/high frequency sections. The mid and high frequency sections shall be integrated by an internal 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 50Hz-18kHz $\pm$ 3dB.

High frequency dispersion at -6dB points shall be 70°H x 40°V.

Power handling shall be 750W AES, 3000W peak LF, 300W AES, 1200W peak MF + HF.

Rated impedance shall be 8 ohms LF, 8 ohms MF + HF.

Maximum SPL measured at 1 metre on axis shall be 131dB continuous, 137dB peak.

Dimensions (W) 1066mm x (H) 560mm x (D) 780mm (42ins x 22ins x 30.7ins).

Weight 77.5kg (170.5lbs).

The loudspeaker system shall be the Martin Audio H3H⁺.

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