WT3
Arrayable three-way compact theatre enclosure

features

❖ Arrayable compact trapezoid enclosure
❖ Switchable bi-amp/tri-amp operation
❖ Very high SPL output capability
❖ 65° coverage angle from compound mid/high horn
❖ Multi-laminate birch plywood construction
❖ Certified MAN quick-connect flying option

applications

❖ Theatre sound systems
❖ Club sound reinforcement
❖ Music playback in nightclubs

An exceptionally efficient, high power full-range system achieving true three-way full frequency performance from an enclosure just 28" in height. This innovative system brings superb sound reproduction to the largest auditoria.

The powerful 15" (380mm) low frequency driver with innovative heat exchange system is complemented by mid-range and high frequencies generated by sophisticated compound mid-high horn configuration, designed to have matched constant Q, 65° horizontal dispersion patterns. The WT3 can be used as a stand-alone system or arrayed in multiples.

Where ultra-low frequency enhancement is required, a Wavefront Series sub-bass system can be used in conjunction with the WT3 and a DX1.5 or DX2 controller to extend the power bandwidth to below 35Hz.
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polar plots

WT3 Vertical
- 200Hz & 1/3 oct smoothing
- 400Hz & 1/3 oct smoothing
- 800Hz & 1/3 oct smoothing
- 1600Hz & 1/3 oct smoothing
- 3200Hz & 1/3 oct smoothing
- 6400Hz & 1/3 oct smoothing
- 12800Hz & 1/3 oct smoothing

WT3 Horizontal
- 200Hz & 1/3 oct smoothing
- 400Hz & 1/3 oct smoothing
- 800Hz & 1/3 oct smoothing
- 1600Hz & 1/3 oct smoothing
- 3200Hz & 1/3 oct smoothing
- 6400Hz & 1/3 oct smoothing
- 12800Hz & 1/3 oct smoothing

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**Frequency Responses**

**WT3 Horizontal Magnitude in dB SPL/2.83V at 1 meter**

**WT3 Horizontal Beamwidth**

**WT3 Vertical Beamwidth**
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Overall dimensions:

- Width: 322mm (12.68"")
- Height: 95mm (3.74"")
- Depth: 261mm (10.28"")
- Weight: 271mm (10.66")

Front view:

- Height: 435mm (17.13"")
- Width: 425mm (16.73"")
- Depth: 708mm (27.87"")

Rear view:

- Height: 216mm (8.5"")
- Width: 215mm (8.46"")

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The loudspeaker system shall be of the three-way switchable bi-amp/tri-amp type consisting of one 15" (380mm) direct radiating reflex loaded low frequency transducer, one 6.5" (165mm) cone driver mounted on a constant directivity horn flare with integral toroidal waveguide and one 1" (25mm) exit HF compression driver mounted on a constant directivity horn in a trapezoidal plywood enclosure. The enclosure shall be fitted with an integral pole mounting socket and threaded inserts to facilitate a variety of mounting options. Tri-amp or bi-amp operation shall be selected by a switch at the rear of the enclosure. In tri-amp mode the loudspeaker shall be operated with a separate electronic controller providing a 650Hz crossover between low and mid frequency sections and a 4kHz crossover between mid and high frequencies. In bi-amp mode the mid and high frequency sections shall be integrated by an internal 3.3kHz 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 55Hz-18kHz ±3dB.
- High frequency dispersion at -6dB points shall be 65˚H x 40˚V.
- Power handling shall be 500W AES, 2000W peak LF, 150W AES, 600W peak MF/(MF+HF), 60W AES, 240 peak HF.
- Rated impedance shall be 8 ohms LF, 16 ohms MF/(MF+HF), 16 ohms HF.
- Maximum SPL measured at 1 metre on axis shall be 127dB continuous, 133dB peak.
- Dimensions (W) 435mm x (H) 708mm x (D) 425mm (17.1ins x 27.9ins x 16.7ins).
- Weight 32kg (70.5lbs).

The loudspeaker system shall be the Martin Audio WT3.