

Mission Freedom 5 Loudspeaker

Construction

Enclosure	25 mm unique transverse-folded Carcass
Material	Medium density fibre board.
Construction	Unique transverse cabinet design
Baffle	MDF baffle forms structure of entire cabinet
Damping	Constrained layered damped walls with fire-retardant Polyurethane foam.

Electrical

L.F. Unit	200mm (8") Polypropylene cone with 25mm voice coil, double layer high temperature Aluminium former, 110 mm (4½") diameter magnet
M.F. Unit	170mm (6.5") Patented Aerogel membrane, Edgewound flat Copper wire on Kapton former, die-cast chassis.
H.F. Unit	25mm (1") ferrofluid-cooled silk dome
Cross-Over network	12-element quality components with Bi-ampable/bi-wirable 5-way gold binding post terminals.

Specifications

Enclosure Type	3-Way, infinite baffle with bandpass design low frequency drive system, floor-standing tower.
Frequency Response:	
55Hz to 20kHz	± 1.5 dB
-6dB Point	32 Hz
Sensitivity SPL/m/2.83V	90 dB
Max. SPL per pair	112 dB
Cross-Over Frequency	110 Hz & 3 kHz
Effective Volume	42 Litres
Nominal Impedance	6 Ohms
Recommended Amplifier	25 - 250 W/C
Cabinet Dimensions (H x W x D)	1080 x 220 x 320 (mm) 42.5 x 8.7 x 12.6 (inches)
Finishes	Black Ash, Rosewood and Primavera Real wood Veneers

Features

Unique *TFT* transverse-folding
Ultra-long throw L.F. unit
Aerogel cellulose M.F. membrane
Edgewound/Kapton Voice Coil
Silk dome HF unit
Smooth off axis response
Hard wired crossover
Split crossover network
High Efficiency

Unique bass alignment

Benefits

- Ultra rigid construction eliminating cabinet coloration.
- Ensures control by amplifier at cone excursion extremes
- Ultra low mass for greater sensitivity and dynamics
- More efficient motor, high power handling and low distortion
- Highly refined, ultra-low distortion high frequency unit
- Ultra stable imagery over wide listening area
- Ensures less signal degradation
- Reduces back EMF distortion
- Allows use with ultra high quality, low power amplifiers
- High dynamic range capability
- Minimises room interference problems

Setting Up

- RUN IN for at least 24 hours with music programme.
- Use spikes provided for optimum coupling to the floor.
- Place within 30cm of the back wall without toe-in angle.
- Use quality speaker cable preferably bi-wired (Mission Quartet)
- Ensure all drive units are fully tightened before use.
- Ensure a minimum of 2m between the two loudspeakers.

Mission Freedom 5

The Mission *Freedom 5* Flagship loudspeaker system offers ultra-wide-bandwidth, no-compromise performance in an elegant and visually attractive floor standing tower design. The *Freedom 5* is an elegant piece of furniture for the serious audiophile. Behind the beauty of the superbly styled and crafted cabinetry lies the result of much skilful and creative engineering. The design solutions employed within the *Freedom 5* are novel, while the manufacturing techniques are among the most advanced in the world. The overall result is a speaker system with unrivalled performance capabilities.

- Unique transverse-folded cabinet technology (TFCT), made possible by Mission's high-technology precision CNC manufacturing capability, providing previously unattainable levels of enclosure integrity and rigidity.
- The standard of precision and finish in the *Freedom 5* cabinets, found only in some exotic designs of an order of magnitude more cost, exemplifies the attention to detail and Mission's commitment to total quality concept.
- Visco-elastic internal cabinet wall damping restrains resonant energy and minimises coloration "smear".
- The patented "Aerogel" MF diaphragm of the *Freedom 5* fashions an incredibly high stiffness to mass ratio enabling true piston operation through to mid treble region without break-up. Superior off-axis dispersion behaviour is achieved by the combined design of the diaphragm profile and phase-plug arrangement.
- The advanced bandpass design of Freedom 5 utilising a massive motor LF unit with ultra-long throw voice coil affords exceptional deep bass energy without the overhang and distortions associated with lesser designs. This results in a fast, deep, coherent and clean bass.
- By design, the Freedom 5 uniquely has minimum interference with room boundaries allowing versatile and flexible placement while retaining qualities of extension, scale and weight in a totally coherent manner.
- Silk tweeter dome offers exceptionally smooth and "silky" high frequency performance with superior off-axis response. The design is optimised to provide virtually no compression with increasing level and an ultra-fast transient response.
- Split crossover network construction optimises signal paths to minimise electro-mechanical drive unit interactions. Quality components used in the cross-over construction ensure maximum information retrieval from the *Freedom 5*.
- Bi-wiring capability of the *Freedom 5s* dispels inter-driver ground induced intermodulation, improving clarity and bass definition.
- The remarkable dB/watt efficiency and the high power handling nature of the *Freedom 5* design ensure outstanding dynamic capability for believable reproduction of all types of music at live concert sound pressure levels.