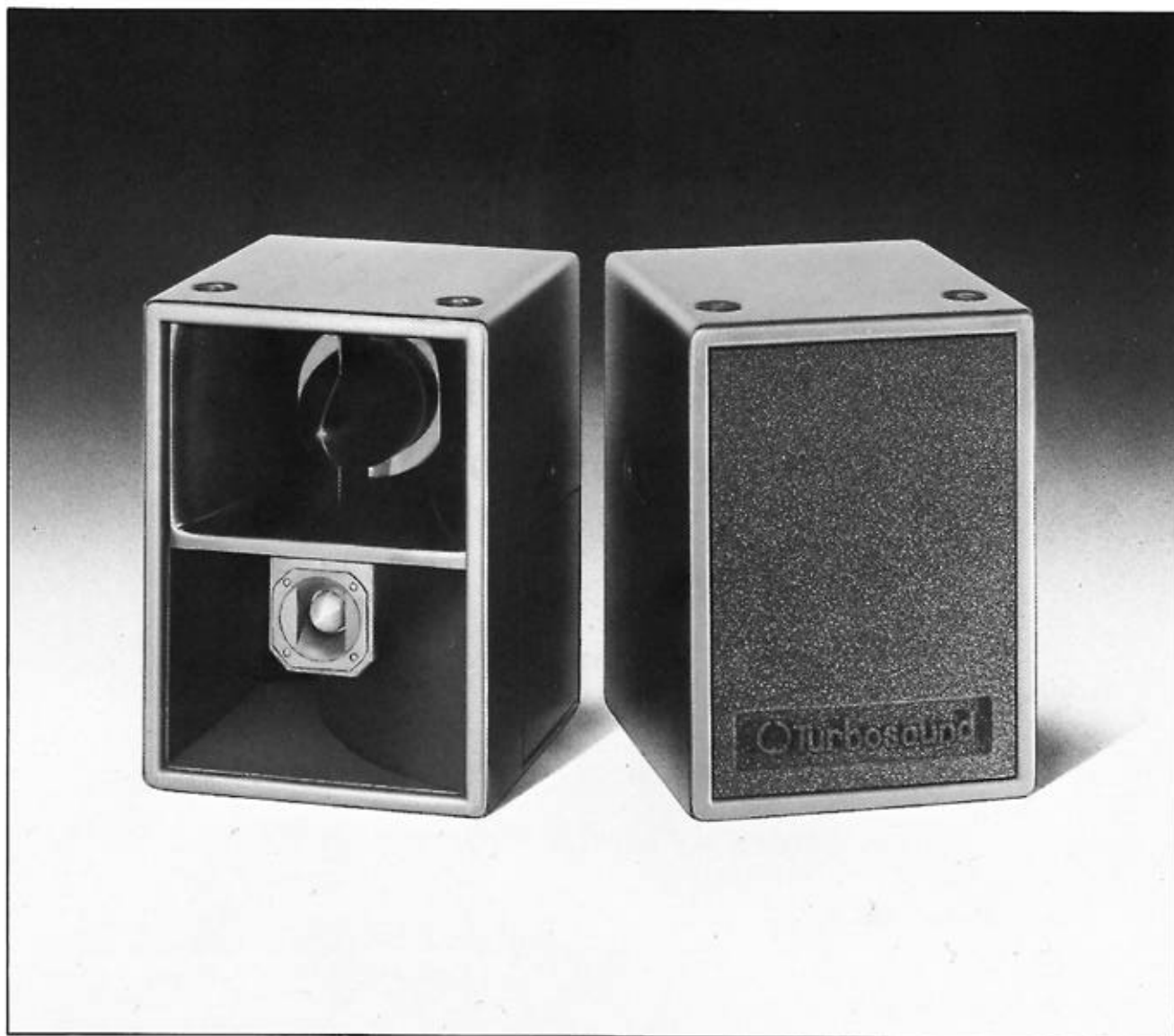


TMS-1

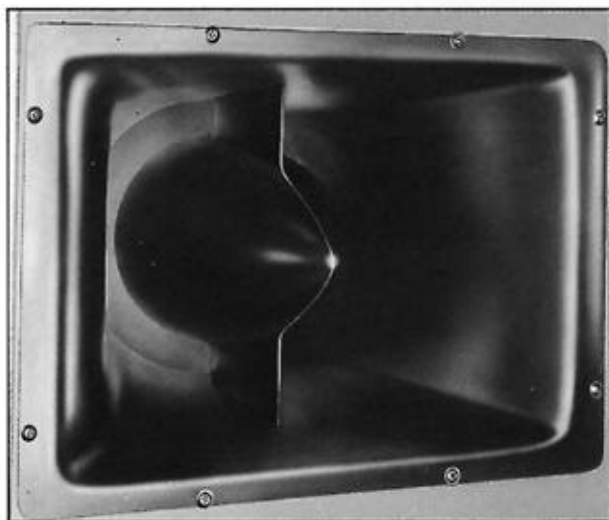


 **Turbosound®**

3-WAY FULL-RANGE PROFESSIONAL SOUND REINFORCEMENT ENCLOSURE

The Turbosound TMS-1 is an innovative 3-way full-range speaker enclosure, packing the benefits of Turbosound's patented concepts into an exceptionally compact unit.

It's designed for use where extremely low frequency reproduction is either of little concern or a hindrance – for example, theatrical, audio-visual, vocal or small group reinforcement, churches, or highly reverberant environments. It is also ideal for discotheque use (in conjunction with the TSW-124 sub-woofer).



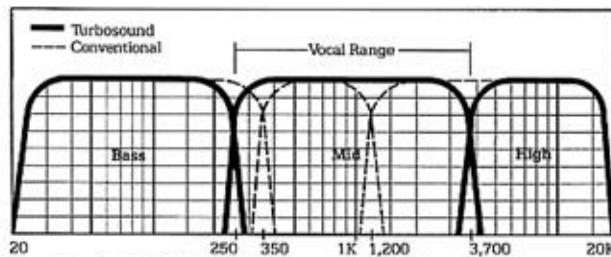
Patented TurboMid™ device

The drive units are: a custom-designed 10" bass driver, loaded with a patented TurboBass™ device; a 10" midrange driver – also made exclusively to our own design specification – loaded with a patented TurboMid™ device, and a high frequency unit.



Connectors, HF level control and specifications

The frequency response is 90Hz – 17kHz ± 3 dB; power handling is 250W RMS (500W program); and the maximum peak SPL is 127dB.

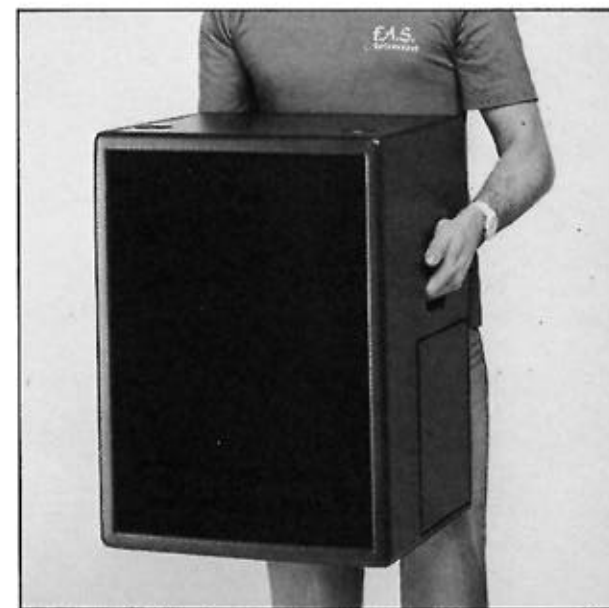


The TurboMid™ device creates a seamless midrange covering the entire vocal range.

The enclosure utilises a carefully optimised passive crossover – which makes the unit both highly reliable and very simple to use.

This combines to create a high efficiency, low distortion line array which is phase-coherent throughout its frequency range. The speaker produces a dynamic sound that integrates superb transient performance with excellent projection and high efficiency, while the 'high-Q' design produces a tight 'beam' of sound, which makes it ideal for multiple-unit arrays.

The rugged, compact TMS-1 enclosure measures a diminutive 24 × 17 × 17 $\frac{3}{4}$ " and is built from 5/8" Finnish birch ply throughout for long-term durability.



Compact design for ease of handling and accurate positioning

The compactness of Turbosound's enclosures, and their light weight, make them ideally suited for flying.

To make the most of this capability, each Turbosound full-range enclosure is designed to make the rigging of a flown system as straightforward as possible.

For the TMS-1, optional flying rings are available which bolt into factory-fitted mounting points on the top and back of the cabinets.



Built-in mounting points for optional flying rings

By adjusting the rigging system's tensions it's a simple matter to achieve the correct dispersion angle between units. The engineer can arrange the system to get as close to the point-source ideal as possible with minimal rigging problems and fast set-up and take-down times.

Turbosound flying equipment is built to a highly robust standard, encompassing the most stringent safety regulations when used correctly.

Dimensions	24"H × 17"W × 17¾"D (61.0cm × 43.2cm × 45.1 cm)
Weight	64lbs. (29 kg.)
Components:	
Bass	1 10" LF driver on a TurboBass™ device; 125 watts RMS, 250 watts Program
Mid	1 10" MF driver on a TurboMid™ device; 100 watts RMS, 200 watts Program
High	1 HF unit; 25 watts RMS, 50 watts Program
Frequency response ¹	90 – 17000 Hz ± 3dB 80 – 18,000 Hz +3/–6dB
Phase response	Coherent over stated bandwidth
Dispersion ²	70°H × 70°V at –6dB points
Rated Impedance	8 ohms
Power handling	250 watts RMS, 500 watts Program
Sensitivity ³	102dB 1 watt/1 meter (Average) 105dB 1 watt/1 meter (Peak)
Maximum SPL ⁴	119dB (Continuous); 127dB (Peak)
Crossover	3-way passive
Construction	15mm Finnish birch ply, rabbeted, sealed with marine glue, and finished in Trimate semi-matt TurboBlue ⁵ paint
Protective grille	1" 30 PPI fully reticulated foam
Connectors	3 pin XLR; 1 male, 1 female
Flying	Optional ring-type flying points
Hardware	HF attenuator 2 recessed handles Optional heavy duty cover
Please note	No tools required for any part of TMS-1 operation.

All measurements are actual figures taken from real-time testing using stated inputs, free from any filtering or weighting, rather than treated inputs and/or calculated figures used by many manufacturers. Therefore, actual performance of the TMS-1 may substantially exceed that of loudspeaker systems with higher published ratings.

Notes

¹ Measured on-axis, half-space conditions, using swept sine wave input

² Average over stated bandwidth

³ Measured 1 watt/1 meter, half-space conditions, using unweighted swept sine wave input

⁴ Continuous measurement: Unweighted pink noise input

Peak measurement: Music program input

Both measured at 1 meter, using stated amplifier power.

⁵ Optional black

The loudspeaker system shall be of the three-way passive type, consisting of one 10" low frequency loudspeaker loaded with a patented TurboBass™ device, one 10" mid frequency loudspeaker loaded with a patented TurboMid™ device, and one high frequency unit.

Performance specifications of a typical production unit shall meet or exceed the following: Frequency response, measured with swept sine wave input, shall be flat within ± 3 dB from 90–17,000 Hz. Dispersion, at – 6dB points, shall average 70° H \times 70° V. Rated Impedance shall be 8 ohms. Power handling shall be 250 watts RMS, 500 watts Program. Sensitivity, measured with 1 watt input at 1 meter distance on-axis, averaged over the stated bandwidth, shall be 102dB. Maximum SPL (Peak), measured with music program input at stated amplifier power, shall be 127dB.

Dimensions: 24"H \times 17"W \times 17 $\frac{3}{4}$ "D.
Weight: 64 lbs. Total enclosure volume shall not exceed 4 cu. ft.

The loudspeaker system shall be the Turbosound TMS-1.

No other loudspeaker system shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance/size specifications are met.

TURBOSOUND®
PATENT INFORMATION
U.K. 1,592,246 & 1,598,310
U.S. 4,181,193 & 4,215,761
Canada patented 1980
Australia 515,535
Other patents pending

Due to ongoing product improvement, specifications are subject to change without notice.

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Dealer Stamp:

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