Care, expertise and craftsmanship.

They go into the construction of every RAM loudspeaker. And it means we can afford to fully guarantee every one for three years.

Because, unlike many manufacturers, we do not use cheaper components in our less expensive models. For example, the same 8" basic Bextrene bass mid range drive unit goes into all our loudspeakers. But only after being exhaustively measured and batch tested.

All our cabinets are veneered both inside and out. To prevent unwanted flexing of the walls at low frequencies. For the same reason, we internally brace the walls of our larger loudspeakers. Before damping the interiors with layers of bitumen and slabs of BBC specified anechoic grade foam.

Because, at RAM, everything is subordinate to one purpose. Creating a range of loudspeakers capable of achieving the highest standards of sound reproduction. Allowing you to hear the music as it was meant to be. With a clarity and lack of colouration that is common to all our models.

But, when the reading is done, all we ask is that you listen.

RAM 1 and RAM Bookshelf

The Bookshelf is a compact loudspeaker with high power handling and performance for its size. Yet it can still produce its characteristic 'large' and 'open' sound when driven by an amplifier with no more than 12 watts RMS output. Its larger brother, the RAM 1, incorporates alterations to the port and crossover. Response is wider, bass being particularly impressive.

RAM 1 and Bookshelf cabinets are veneered both internally and externally to prevent unwanted flexing at low frequencies due to stress imbalances, which can contribute to distortion and low-frequency colouration. The cabinets are lined with bitumen and filled with BBC specified anechoic grade foam to obtain maximum damping and the absorption of unwanted rearward radiation. The dividing networks employ close tolerance, high power components which ensure that the network itself does not contribute any audible distortion. For example, through core saturation. Roll-off characteristics are optimised to match the performance of the drive units, and the network has been designed so that cone break-up and unit resonances are thoroughly suppressed.
The bass-mid driver used in both models is an 8" unit, using a critically damped Bextrene cone. A high loss, inverted PVA roll surround, together with a high power former, coil and magnet assembly achieves exemplary distortion and transient characteristics and lower levels of 'subjective' colouration. The unit's low free-air resonance, the smoothness of amplitude response, and the exceedingly stable polar response all provide evidence for this.
High frequencies are handled by a 25mm dome radiator, and response in both models is notable for wide off-axis dispersion and very 'sweet' sound.

RAM STL4

With the STL4 we have decided to design and produce in limited quantities a studio transmission line speaker which ignores the ordinary commercial and domestic limitations. Put bluntly, the STL4 has been designed as a genuine 'no-compromise' speaker, in terms of size, cost, and performance.

The STL4 combines our established twin-bass principle together with optimum loading techniques. Namely in the form of a three metre, totally absorbent, folded line. The results, both in terms of statistical measurement and subjective evaluation, are extremely impressive. The STL4 measures virtually flat to 40Hz, with distortion being less than 0·4% over most of the LF bandwidth. Phase distortion is also kept within very narrow limits because of time-delay compensation of unit configuration and minimal crossover phase error.
The STL4 is a truly professional product designed for those who seek the highest possible degree of musical quality.

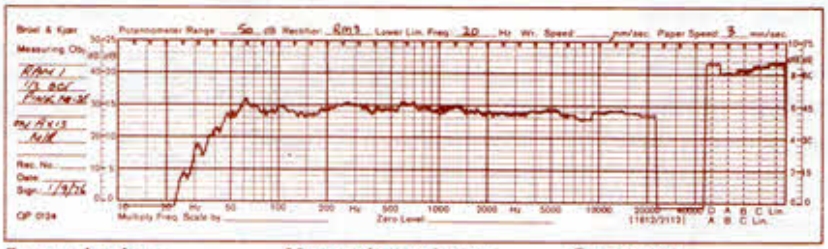
RAM 200

This is our latest model. Although slimmer than the RAM 1, it is capable of handling more power. Incorporating our new Auxiliary Bass Radiator, it excels subjectively in both image depth and placement. Bass is freed from any impression of 'boxiness', with a startling degree of control and detail.

The RAM 200 uses a new butyl-latex impregnated soft-dome HF radiator, as selected by the BBC. And our 8" Bextrene bass mid range driver is equipped with a high power, high efficiency magnet and voice coil assembly. However, instead of a port, the RAM 200 is the first speaker to use our innovatory 250mm Bextrene Passive radiator. Fed from a close tolerance nine element dividing network providing minimum phase error, it produces the quality of sound normally associated with transmission line loudspeakers, rather than that of traditional ABR designs.

Specifications

RAM 1



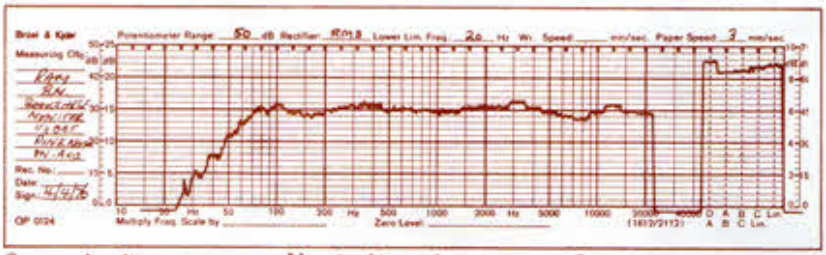
Drive units:
1x200mm plastic cone, Plastiflex-doped, high loss PVA surround. 1x25mm dome HF radiator.

System loading:
Tuned resistive port.
Suggested amplified matching:
15–50 watts per channel.

Nominal impedance:
4–8 ohm.
Frequency response limits:
±2dB 55Hz–22kHz.

Sensitivity:
6 watts produces 90dB. (Measured on-axis, 1m distance)
Dimensions:
23"x13"x12" wide.

RAM Bookshelf



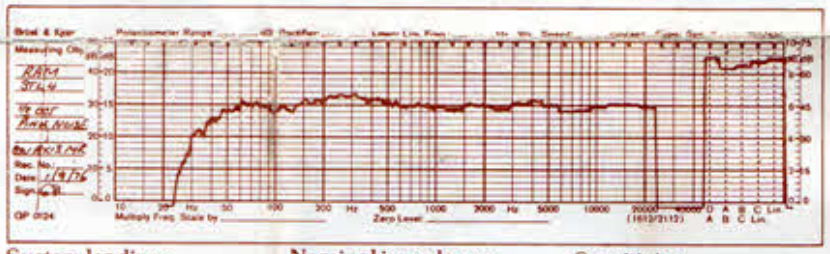
Drive units:
1x200mm plastic cone, Plastiflex-doped, high loss PVA surround. 1x25mm dome HF radiator.

System loading:
Tuned open port.
Suggested amplified matching:
12–50 watts per channel.

Nominal impedance:
4–8 ohm.
Frequency response limits:
±2dB 70Hz–22kHz.

Sensitivity:
6 watts produces 91dB. (Measured on-axis, 1m distance)
Dimensions:
16"x9"x10" wide.

RAM STL4



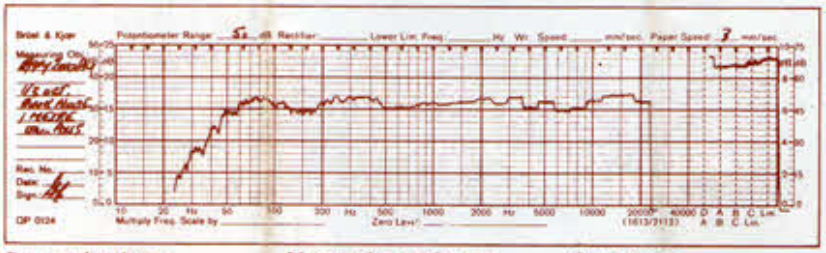
Drive units:
2x200mm Bextrene LF units. High-power voice coil, former and magnet assemblies. 1x200mm Bextrene LF/MR unit. High-power voice coil, former and magnet assembly. (LF and MR-Time delay compensated). 1x25mm Dome HF unit fabric domed, chemically treated.

System loading:
3-metre transmission line, critically damped.
Cross-over frequencies:
250Hz and 3·5kHz.

Nominal impedance:
4–8 ohms.
Frequency response limits:
±2dB 40Hz–22kHz.

Sensitivity:
6 watts produces 92dB.
Suggested amplifier matching:
30–125 watts per channel.
Dimensions:
48"x24"x21" wide.

RAM 200



Drive units:
1x25mm cambric dome HF unit. 1x200mm Bextrene MR/1F driver. 1x250mm Bextrene Passive Radiator.

System loading:
Auxiliary Bass Radiator.
Suggested amplifier matching:
15–75 watts per channel.

Nominal impedance:
8 ohms.
Frequency response limits:
±2dB 45Hz–22kHz.

Sensitivity:
6 watts for 92dB.
Dimensions:
26"x10½"x12½" wide.

RAM

all we ask is that you listen

RAM Limited, Clarke Road, Mount Farm, Milton Keynes, Bucks., England.
Tel: Milton Keynes (0908) 75764. Telex: 27950 (Mono ref 2078).

Due to our policy of continual improvement we reserve the right to change specifications without notice.