

AR

· THE · 8 · 18 · SERIES ·





At Acoustic Research we believe hi-fi is a means to an end—music. We keep this in mind when designing our products, during our advanced 'pure' research into psycho-acoustics and loudspeaker dispersion.

We use advanced computer-modelling techniques, which simulate human hearing, but we don't let the 'decibels' take over.

We bring together scientific methods and music-oriented listening to produce the best sound and value around today. And it's no surprise we're still on top, after all, Acoustic Research were comparing their loudspeakers to live music thirty years ago, and even now that's a stringent test.



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How do we do it? By careful research and design. For instance, we design all our own drive units. In the AR8BX and AR18BX we've developed a superb synthetic foil tweeter. It's an advanced dome/cone hybrid with a small diameter voice coil and a very light polycarbonate diaphragm for an ultra-fast, articulate response to complex signals. It's a lot better than some of the dome units other manufacturers use in their more expensive models!

We've used ferro-fluid to cool and damp the voice coil. This provides excellent control over the tweeter's movements and the cooling greatly improves power handling. Highly-developed paper-pulp coned drive units were designed for both loudspeakers and, of course, we've used acoustic suspension bass loading—something Acoustic Research invented over thirty years ago—for exceptionally deep, clean, tuneful bass.

We build them as carefully as we design them, with crossover networks made with firmly fixed, hand-checked components and carefully tested drive units.



# ERIES.

Then, completed loudspeakers are tested against rigidly laid down standards—even the least expensive.

That's why Acoustic Research can confidently offer a five-year warranty, which is not just a warranty against defects in parts and workmanship, but also guarantees that each loudspeaker will continue to perform within  $\pm 1\text{dB}$  of its design specification for a full five years from the date of purchase.

Our tests have shown that the support loudspeaker stands provide can be critical in delivering music crisply, cleanly and meaningfully. So, we've designed our own, specifically for the AR8BX and AR18BX.

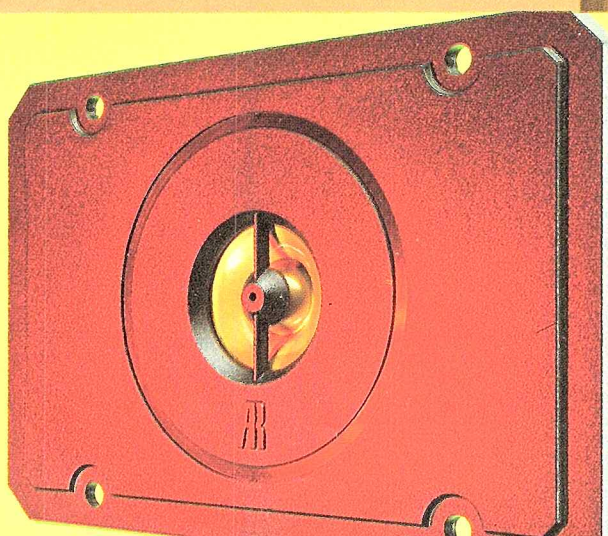
Utilising three-point support with spiked feet to eliminate wobble on uneven floors, the AR LSM have been designed for optimum rigidity and maximum stability. They hold the loudspeakers at the best height and allow the AR8BX and AR18BX to deliver their full, startling performance.

The 'baby' AR8BX offers the ideal solution for buyers with space limitations, or those on a tight budget. Because it uses the same tweeter, it



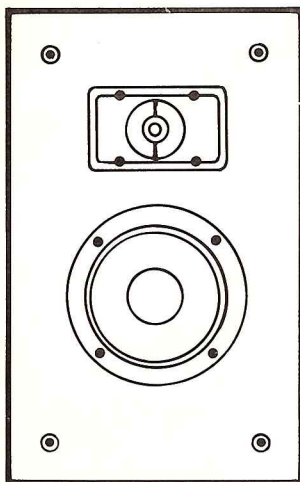
naturally shares the textured, articulate treble quality of its big brother the AR18BX. Its punchy, lively, rhythmic sound communicates the music in a positive, informative way and really brings out the best from budget systems.

Our AR18BX is a real show stopper. We designed this loudspeaker for those on a budget, but its extraordinary clarity, detail, transient response and clean, deep tuneful bass make it suitable for more expensive systems. It's a very uncoloured, open-sounding loudspeaker with outstanding articulation through bass, midrange and treble. No one area stands out to impress on its own, but the total result is music brought vividly to life—in your own home.





# SPECIFICATIONS



## AR Series 8BX

● **System Type:** Bookshelf acoustic suspension 2-way system with drive units in a vertical array. ● **Drive Units:** 150 mm (6") acoustic suspension woofer. 25 mm (1") liquid-cooled high-range driver. ● **Voltage Sensitivity:** 2.83 volts produces 87 dB SPL at 1 metre on axis.

● **Efficiency:** 1 watt produces 87 dB SPL at 1 metre on axis. ● **Power Requirements:** 10 watts per channel minimum. ● **Power Handling Ability\*:** May be used with amplifiers rated at up to 75 watts per channel. ● **System Frequency Response:** -3 dB points at 62 Hz and at 25,000 Hz. ● **System Low Frequency Performance:** -3 dB at 62 Hz with an effective Q at resonance of .88. ● **Impedance:** 8 ohms nominal, 5.6 ohms minimum point. ● **Crossover**

**Network:** Woofer has first order electrical network plus mechanical slope to give a total of 18 dB/octave. High range has a second order electrical network. ● **Crossover Frequency:** 4000 Hz. ● **Cable connection** is via rugged spring grips which will accommodate stranded

cable up to 5 mm diameter or 4 mm plugs. ● **Cabinet Internal Volume:** 9.8 litres (.35 cu. ft.). ● **Cabinet Dimensions** (including grille): 394×244×189 mm deep ( $15\frac{1}{2}$ "× $9\frac{5}{8}$ "× $7\frac{3}{8}$ " deep). ● **Cabinet Finish:** Walnut grain vinyl veneer. ● **Weight:** Unpacked (1 speaker) 5.7 kg (12.5 lbs.).

## AR Series 18BX

● **System Type:** Bookshelf acoustic suspension 2-way system with drive units in a vertical array. ● **Drive Units:** 200 mm (8") acoustic suspension woofer. 25 mm (1") liquid-cooled high-range driver. ● **Voltage Sensitivity:** 2.83 volts produces 87 dB SPL at 1 metre on axis.

● **Efficiency:** 1 watt produces 87 dB SPL at 1 metre on axis. ● **Power Requirements:** 10 watts per channel minimum. ● **Power Handling Ability\*:** May be used with amplifiers rated at up to 75 watts per channel. ● **System Frequency Response:** -3 dB points at 52 Hz and at 25,000 Hz. ● **System Low Frequency Performance:** -3 dB at 52 Hz with an effective Q at resonance of 1.1. ● **Impedance:** 8 ohms nominal, 6.2 ohms minimum point. ● **Crossover**

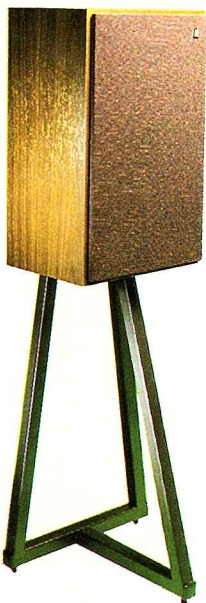
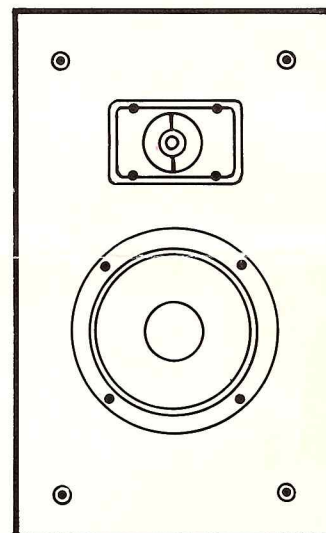
**Network:** Woofer has first order electrical network plus mechanical slope to give a total of 18 dB/octave. High range has a second order electrical network. ● **Crossover Frequency:**

3000 Hz. ● **Cable connection** is via rugged spring grips which will accommodate stranded cable up to 5 mm

diameter or 4 mm plugs. ● **Cabinet Internal Volume:** 14.8 litres (.52 cu. ft.). ● **Cabinet**

**Dimensions** (including grille): 441×275×210 mm deep ( $17\frac{3}{8}$ "× $10\frac{13}{16}$ "× $8\frac{1}{4}$ " deep). ● **Cabinet**

**Finish:** Walnut grain vinyl veneer. ● **Weight:** Unpacked (1 speaker) 6.8 kg (14.9 lbs.).



## Loudspeaker Stands AR LSM

3 point metal speaker stands can be fitted with spiked feet providing a rigid support at the correct listening height.

\*Amplifier being driven into clipping no more than 10% of the time on normal music and speech source material in non-commercial applications.

**Note:** Since it is the policy of Acoustic Research to continuously incorporate engineering improvements into its products, all specifications are subject to change without notice.

Designed by Litchfield Design Printed in England

### THE AR WARRANTY

A lot of loudspeaker manufacturers guarantee their systems against defects in parts and workmanship. So does Acoustic Research. But we do something that few other companies do. We guarantee our speaker performance as well, within  $\pm 1$  dB of its design specifications, for a full five years from the date of purchase.



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