

AR-7

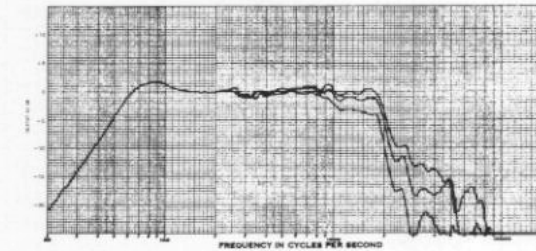


FREQUENCY RESPONSE CURVES

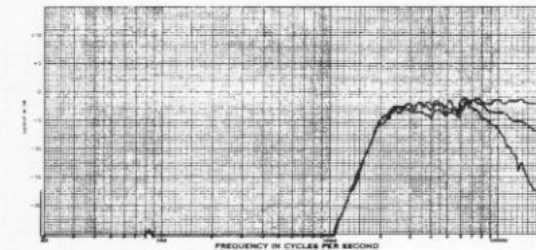
Response curves of each radiator are shown separately so that interference patterns—which depend on the position of the recording microphone rather than speaker quality—are eliminated. They were measured radiating into a 360° solid angle (a hemisphere), with grill cloth and decorative molding removed. A B & K 4133 microphone was used.

The microphone was on axis for the highest curve; the second curve was measured 30° off axis, and the lowest 60° off axis.

WOOFER

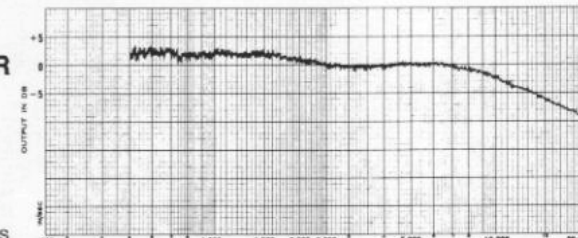


TWEETER



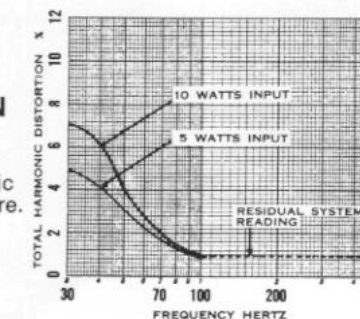
ACOUSTIC POWER OUTPUT

The curve represents the integrated power output above 500 Hz, measured in a special reverberant chamber. Reflection from the walls of the chamber mixes together all of the sound emitted by the speaker system in all directions, an effect much more like that of a listening room than the anechoic chamber used for the frequency response curves above. A speaker system which measured well in *both* types of chambers would be accurate under almost all listening conditions.



WOOFER HARMONIC DISTORTION

In interpreting this curve, keep in mind that normal listening is done at an average power level of under 1 watt. At this level the harmonic distortion is so low as to be difficult to measure.



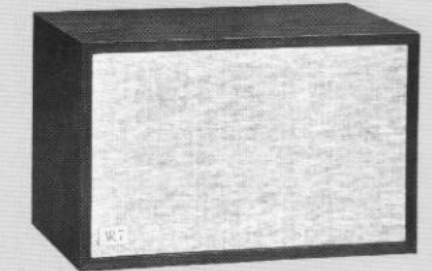
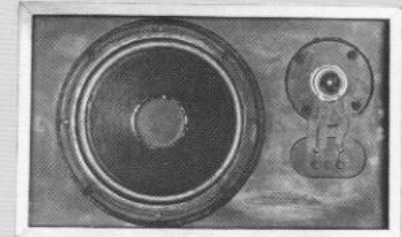
GUARANTEE

The workmanship and performance of AR speakers are guaranteed for 5 years in normal use. The guarantee covers parts, repair labor, and freight costs to and from the factory or nearest authorized service station. New packaging is also free if needed.

ACOUSTIC RESEARCH, INC. • 10 AMERICAN DRIVE • NORWOOD, MASS. 02062



AR-7



The AR-7 is a new speaker developed by Acoustic Research to achieve accuracy of reproduction comparable to that of other AR speaker systems, but at a substantial saving in cost. A measure of the success of the new design is the small difference in sound that is apparent when the AR-7 is compared directly to even the most expensive AR speaker systems.

The secret of the AR-7's value for money is a new design of woofer/enclosure system which offers a standard of low-distortion, extended-bass response exceeding that of many systems of greater cost and size.

The AR-7 contains the same type of tweeter as the AR-6, providing a smooth and well-dispersed energy output. The performance of the AR-7, in fact, is nearly identical to that of the AR-6, except for its less-extended bass response.

Due to its compact size, the AR-7 is ideally suited for 4-channel installations. However, its accurate response and modest cost make it a worthy choice for anyone interested in a high quality reasonably priced stereo system.

'We would judge the effective lower limit of the AR-7 to be about 40 to 45 Hz—which is a very respectable figure for a speaker system of its size ... The tone-burst response was on a par with that of the other AR speakers we have tested—about as close to ideal as can be measured in a "live" environment ... it compares with many speakers selling for twice its price or even more—which clearly makes it one of the more outstanding under-\$100 speaker systems, irrespective of size.' STEREO REVIEW.

'We predict that the AR-7 will become the standard for other speakers in the under-\$100 class and supplanting some speakers of even greater cost.' AUDIO.

SPECIFICATIONS:

Size: 9 3/4" x 15 3/4" x 6 1/4" deep; 247 x 400 x 146mm deep.

Weight: 11 pounds; 5.0 Kg.

Minimum Recommended Amplifier Power:

15 watts RMS (continuous) per channel.

Speaker Complement:

Woofer: 8" (203mm) acoustic suspension.

Tweeter: 1 1/4" (32mm) wide dispersion cone.

Average Resonance of Woofer: Free air 25 Hz;

in enclosure 68 Hz.

Crossover Frequency: 2000 Hz.

Volume of Enclosure: .345 cu. ft.; 9.77 liters.

Impedance: 8 Ohms

Controls: High frequency level adjustment (two position switch).