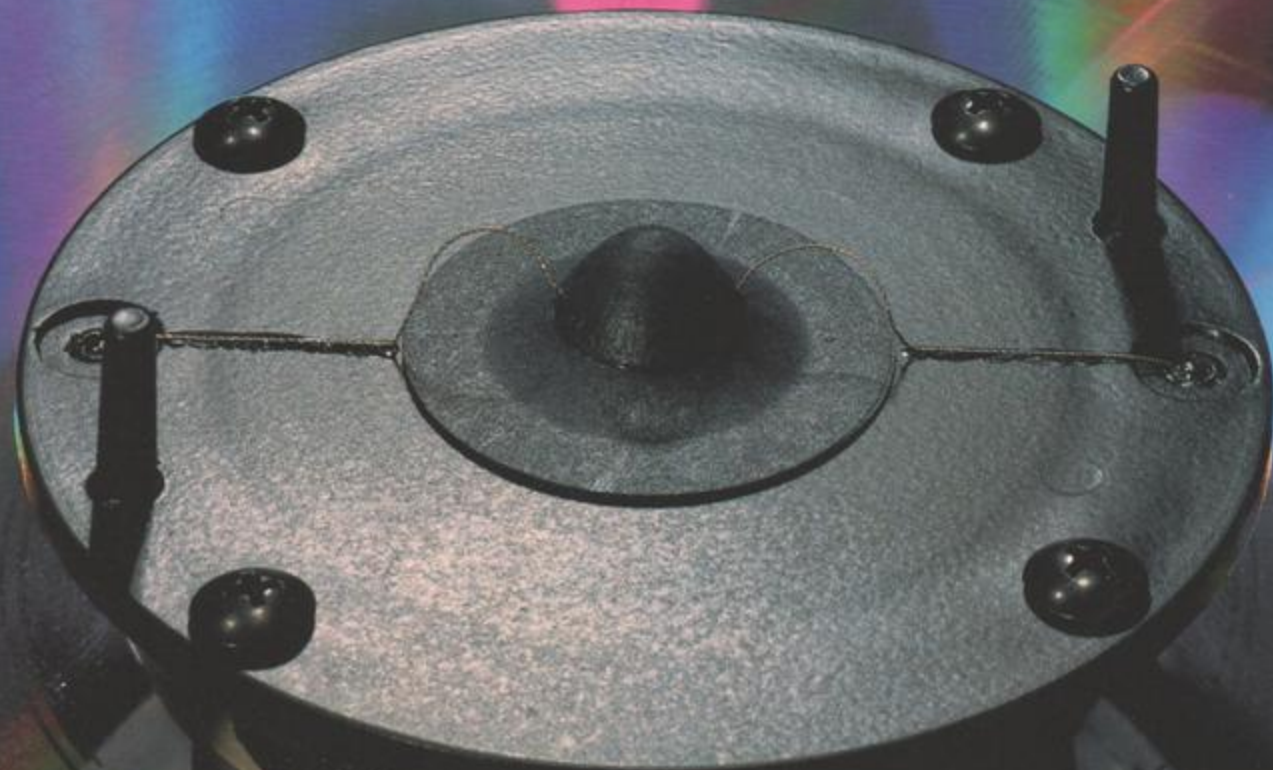


ALLISON

ROOM-MATCHED
LOUDSPEAKER SYSTEMS



CD SERIES

CD SERIES

Allison's CD line of Room-Matched speakers is built on the strong foundation of the Designer Series. Sculptural art in cabinet styling, and state-of-the-art acoustic technology, are combined to produce speakers with extraordinary visual effect and a new, higher level of musical accuracy.

It is clear that loudspeaker cabinets, which occupy prominent positions in living spaces, should be as pleasing to the eye as we can make them. But loudspeakers are more than furniture, and technical performance is of overriding importance.

Our primary performance

criteria are

- Uniform (flat) acoustic power output.
- High output capability, enabling the system to reproduce the full dynamic range of digital and analog recordings.
- The lowest possible distortion at all output levels.
- Very broad dispersion at all frequencies.
- Maximum reliability, gained through sophisticated engineering and rigid quality control.
- Convenience and flexibility in placement.

We achieve these objectives in Allison loudspeakers with several proprietary techniques.

CONVEX DIAPHRAGMS

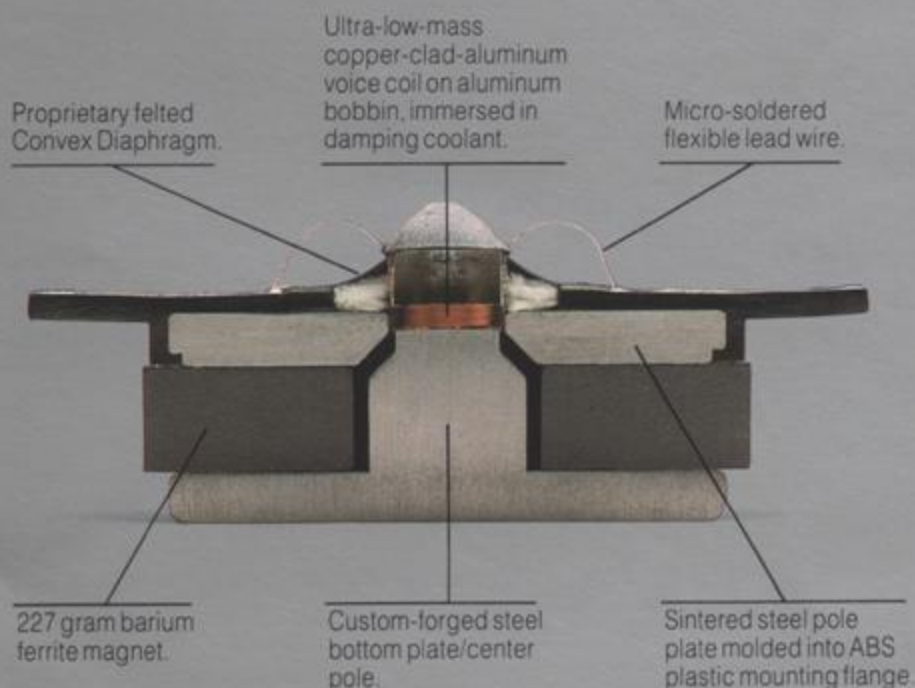
A very important factor in our ability to achieve high accuracy is the unique operating principle of our mid-range driver and tweeter, which function effectively as pulsating hemispheres.

Our Convex-Diaphragm tweeter has dispersion more uniform at the highest frequencies than that of any other tweeter made. This is important because it provides flat treble power output, which yields accurate spectral balance and timbre. It also produces sound imaging over a large listening area and gives a

realistic simulation of the original space around the image.

The CD series of Allison loudspeakers has refinements in high-frequency performance now available for the first time.

- Tweeter distortion, already very low, has been further reduced.
- Power response in the tweeter crossover region has been made even smoother.
- Power-handling capability has been increased without compromise in any other aspect of performance.



The Allison tweeter's Convex Diaphragm simulates the motion of an expanding/contracting hemisphere. It is available only in Allison speaker systems and is used in every one of them.



ROOM-MATCHED DESIGN

Of equal importance in the design of accurate loudspeakers is the concept of Room-Matching.

The power response of any loudspeaker is altered in the upper bass frequency region by reflections from nearby room surfaces. This variation is significant, often amounting to 10 dB or more. There is increased output at certain frequencies and decreased output at others, and the frequencies affected change

as the loudspeaker position in the room is changed. The only sure way to obtain flat bass power in a room is to consider the room as part of the system, designing the loudspeaker for use in close proximity to one, two, or three surfaces (walls and/or floor or ceiling), and making the appropriate compensating adjustments.

Designing loudspeakers for use close to room walls also has an important side benefit: It minimizes interference with normal living space.



CD 8

CD 6

MAKING OUR OWN

Convex-Diaphragm drivers and Room-Matched design techniques (protected by U.S. and foreign patents) make possible a major audible improvement in accuracy. However, we have still another significant advantage: We make all our woofers, mid-range drivers, tweeters, and crossover networks in our Massachusetts factory, rather than buy them from large outside suppliers as is the usual practice. Thus we are able to design these components as optimal parts of the

complete system. And making our own gives us much more effective control of quality.

The net result of all this is sound reproduction that musicians and experienced concertgoers immediately recognize as being very close to the real thing.

ALLISON

CD 6

The CD 6 is truly a "bookshelf" loudspeaker. It can be placed on a shelf, a pedestal, or a table, or suspended on a wall with sturdy brackets. Wherever it is used, the cabinet's clean lines and beautiful finish will complement the system's acoustic performance.

The Room-Matched design of the CD 6 includes our Convex-Diaphragm tweeter and a long-

excursion 8-inch woofer capable of really satisfying bass. Preceding versions of this system have drawn international acclaim for wide response, superb balance, and dynamic range capability—even though it is less than one cubic foot in size. As one of the CD series, the 6 is now better than ever.

CD 7

Striking appearance, brilliant performance, and remarkably low price make the Allison CD 7 one of the most exciting speakers of the decade.

The CD 7 is a floor-standing system designed to work best where it takes the least space—with its back close to a room wall. Its driver design and arrange-

ment make the system essentially omnidirectional in the forward hemisphere, as are all Allison loudspeakers. Consequently, orientation is quite uncritical. A pair can be used on the same wall, on adjacent walls, or even on facing walls at the end of a room away from the listening area.

CD 8

This completely new system is a compact floor-standing three-way design. It combines the Convex Diaphragm mid-range, tweeter, and crossover sections of the senior model CD 9 with an 8-inch long-travel woofer.

The CD 8 cabinet is larger than that of the CD 7 and the low-frequency response is extended. But many listeners will find the most impressive aspect of

performance to be the creamy-smooth middle range, which blends imperceptibly with the sound of the Room-Matched woofer and that of the Convex-Diaphragm tweeter.

Spectral balance controls in the CD 8's complex crossover network provide for subtle adjustment of mid-range and tweeter output levels.

CD 9

The CD 9 can produce as accurate a replica of the original music as is possible today. While doing so it doesn't need a lot of living room space; it works best close to a single wall, and occupies one square foot of floor area.

A three-way system, the 9 has Convex-Diaphragm mid-range and tweeter units and a 10-inch long-excursion woofer

arranged in our Room-Matched configuration and driven through a crossover network of great technical sophistication. As in the CD 8, level controls for the mid-range driver and tweeter are furnished for adjustment of the spectral power balance.

The CD 9 is a work of great engineering art in a package suited to the content.

SPECIFICATIONS



Literature describing other Allison loudspeaker systems is available on request.

Model	CD 6	CD 7	CD 8	CD 9
Speaker Complement (All drive units are manufactured and tested individually by Allison Acoustics)	Woofers: 8" (20.3 cm) Tweeter: 1" (2.5 cm) Allison Convex Diaphragm with Ferrofluid damping/cooling material	Woofers: 8" (20.3 cm) Tweeter: 1" (2.5 cm) Allison Convex Diaphragm with Ferrofluid damping/cooling material	Woofers: 8" (20.3 cm) Mid-range Unit: 3 1/2" (8.9 cm) Allison Convex Diaphragm with Ferrofluid damping/cooling material Tweeter: 1" (2.5 cm) Allison Convex Diaphragm with silicone damping/cooling material	Woofers: 10" (25.4 cm) Mid-range Unit: 3 1/2" (8.9 cm) Allison Convex Diaphragm with Ferrofluid damping/cooling material Tweeter: 1" (2.5 cm) Allison Convex Diaphragm with silicone damping/cooling material
Crossover Frequencies	2000 Hz	2000 Hz	450 Hz and 3750 Hz	350 Hz and 3750 Hz
Crossover Network	Passive, parallel filters; quarter section for woofer, half-section for tweeter, using parts of finest quality	Passive, parallel filters; quarter section for woofer, half-section for tweeter, using parts of finest quality	Passive, parallel half-section filters using four inductors, four capacitors, six resistors, and two switches. Individual level controls for mid-range and tweeter.	Passive, parallel half-section filters using three inductors, four capacitors, six resistors, and two switches. Individual level controls for mid-range and tweeter.
Level Controls	None	None	Mid-range and Tweeter	Mid-range and Tweeter
Enclosure Type	Stabilized Radiation Loading* acoustic suspension design			
Impedance	4 ohms	4 ohms	4 ohms	4 ohms
Resonance Frequency	59 Hz	52 Hz	49 Hz	45 Hz
Low-frequency Performance				
-3 dB	46.5 Hz	41 Hz	39 Hz	35.5 Hz
-6 dB	39 Hz	34.5 Hz	33 Hz	29.5 Hz
Internal Volume	860 cu. in. (14.1 liters)	1775 cu. in. (29.1 liters)	2130 cu. in. (34.9 liters)	2800 cu. in. (45.9 liters)
Sensitivity, SPL	90 dB, 2.83 v/1m	90 dB, 2.83 v/1m	90 dB, 2.83 v/1m	90 dB, 2.83 v/1m
Amplifier Power	15-150 watts per channel	15-150 watts per channel	30-200 watts per channel	30-200 watts per channel
Power Handling Capability	At least 350 watts for 0.1 second, 125 watts for 1 second, 60 watts for 10 seconds over most of frequency range. At least 15 watts continuous or average, at any frequency. At least 35 watts at resonance frequency.	At least 350 watts for 0.1 second, 125 watts for 1 second, 60 watts for 10 seconds over most of frequency range. At least 15 watts continuous or average, at any frequency. At least 35 watts at resonance frequency.	At least 750 watts for 0.1 second, 190 watts for 1 second, 90 watts for 10 seconds over most of frequency range. At least 20 watts continuous or average, at any frequency. At least 35 watts at resonance frequency.	At least 750 watts for 0.1 second, 190 watts for 1 second, 90 watts for 10 seconds over most of frequency range. At least 20 watts continuous or average, at any frequency. At least 40 watts at resonance frequency.
Weight	17 lbs. (7.7 kg.)	22 lbs. (10 kg.)	35.5 lbs. (16 kg.)	55.5 lbs. (25.2 kg.)
Dimensions (H x W x D)	11 1/4 x 11 1/4 x 11 1/4 (28.6 x 28.6 x 28.6 cm)	27 1/2 x 9 5/8 x 9 5/8 (70 x 24 x 24 cm)	28 5/8 x 10 1/2 x 10 1/2 (73 x 27 x 27 cm)	37 1/4 x 12 1/2 x 10 3/4 (95 x 32 x 27 cm)
Finish	Oak or Walnut	Oak or Walnut	Oak or Walnut	Oak or Walnut
Warranty	Allison was the first loudspeaker manufacturer to offer a full warranty for five years, and it still applies. All Allison speaker systems accurately reproduce digital and analog program sources.			

Authorized Dealer

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Materials and specifications subject to change without notice.
*U.S. Patent 3,983,333

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