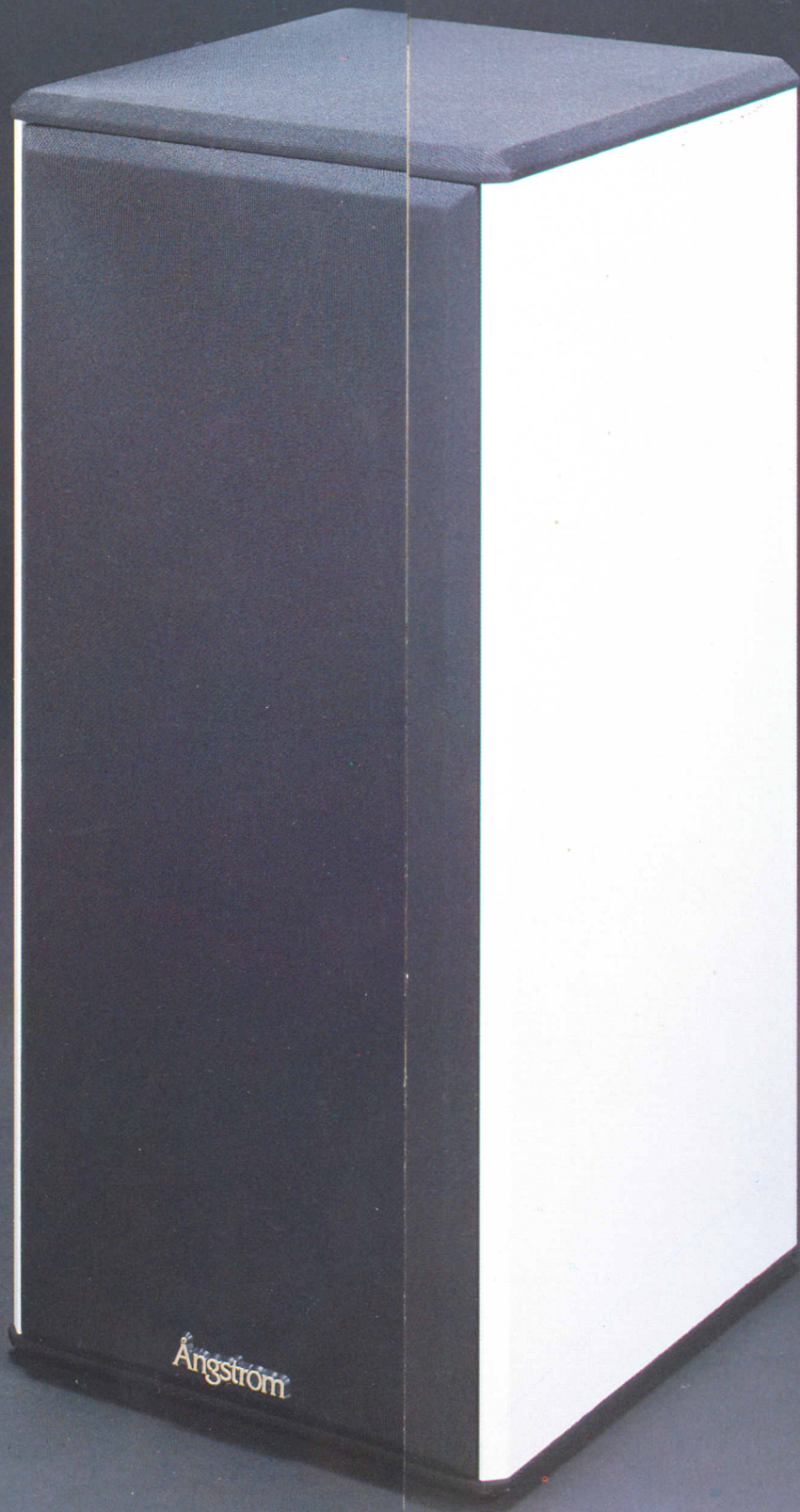


Ångstrom  
radix







Angstrom



A similar, systematic, no-compromise approach to the rest of the components completes the **radix** design.

All Ångstrom woofers use the latest co-polymer technology in their drive elements resulting in linear response. This technology is free from the deterioration suffered by other materials as a result of age, stress caused by long term application of large signals, or changes in temperature and humidity.

Over-size magnet assemblies and critical voice-coil engineering yields **radix**' high efficiency and low distortion. The most complex and demanding musical passages are reproduced with the highest fidelity without straining a modest amplifier or your loudspeakers. High temperature materials readily withstand the rigors of modern program material.

All Ångstrom tweeters are ferrofluid-cooled and use co-polymer drive elements to ensure accurate, transparent, high-frequency performance without the distortion and loss of reliability inherent in lesser materials. Their dome configuration is noted for its broad dispersion allowing a realistic stereo image to be enjoyed throughout the listening area.

Crossovers are developed using the most sophisticated computer modeling and optimization techniques available.

This allows Ångstrom engineers to accurately model various crossover and driver configurations, predicting their behaviour and selecting the most promising combinations for prototyping. The ideal combination is then selected for production in double-blind listening tests.

Of course, **radix** crossovers employ the best components, hand assembled and tested to ensure consistency and long term reliability.

The result is an accurate and seamless soundfield.

Relaxed, open, natural... the music will always be supremely entertaining. The ability to follow the music through its softest levels, and to soar effortlessly through the loudest crescendos, is crucial to musical realism. It is the subtle nuance, the fleeting detail, of musical composition and performer style that distinguishes the great from the merely good. To reveal that detail, on a naturally presented sound stage with dynamic musical impact, is the reason for acquiring a high performance loudspeaker system.

An audition will quickly tell you that musical realism is one of **radix**' strengths. It is a deliberate result of Ångstrom engineering.

In the late 1970's

Ångstrom was among the very first loudspeaker manufacturers in North America to incorporate exhaustive scientific measurement, double-blind listening tests under strictly controlled conditions, and psycho-acoustic research in the design and development of its products. Ångstrom recognized then that achieving a resonance-free enclosure was fundamental to successful loudspeaker design. The very first Ångstrom loudspeaker, the *RPS Monitor*, utilized the latest materials and components at a time when these were the leading edge of loudspeaker technology.

Now, Ångstrom introduces a radically new way to build loudspeakers... **radix**.

**radix** represents the results of Ångstrom's research into structural theory and the behaviour of loudspeaker cabinets. Incorporating the integrated structural engineering used in the architectural, aerospace and automotive fields, the **radix** cabinet is immensely strong and resonance free.

The **radix** design has been conceived as an integrated whole which uses its various structural elements for more than one purpose. A radical development in loudspeaker cabinet engineering.

**radix** goes beyond the traditional wooden box to create a loudspeaker enclosure system.

An acrylic-modified, long-chain polymer loaded with 10% Titanium Dioxide, is extruded to form the side and a portion of the back walls of the cabinet. Its cellular "honeycomb" configuration adds great stiffness without the penalty of high mass and serves to isolate the outer wall from the inner, reducing the flow of energy to the exterior.

Additional bracing members are located in integral guides, placing them at non-harmonically related intervals along the cabinet panels for maximum effect. This "randomizes" the tendency of panels to resonate, preventing any one frequency from becoming dominant and colouring the sound.

The bracing also serves to form a series of internal baffles, slowing and dissipating the energy radiated from the back of the drivers. This energy is substantial, and creates significant problems in conventional cabinets. The braces are also used to locate additional damping materials where tests show they are most needed—even in the middle of a cabinet, where unwanted "standing waves" are most readily eliminated.

The result is smooth, coloration-free sound—without the "boxiness" associated with traditional approaches. The **radix** cabinet allows the drivers to do what they were designed to do... reproduce the musical signal with the utmost fidelity.



At Ångstrom, visual appeal is not neglected.

Unorthodox design in loudspeaker cabinets often produces an unappealing visual effect—unconventional angles, strange shapes, and unusual industrial materials that don't fit the interior of your home. Careful industrial design gives **radix** a classically elegant appearance that will enhance any home. Beautifully proportioned and finished, **radix** loudspeakers will blend gracefully with your lifestyle. Their small "footprint" means that they will be easily accommodated in your room and the high quality finishes and detailing will be a source of visual pleasure for years to come.

**radix** offers unprecedented value.

Ångstrom undertook this research and development to offer "expensive" performance and styling at a previously unavailable price. We are pleased to be able to say that our work has been successful beyond our original expectations.

Our warranty reflects our confidence.

Every loudspeaker Ångstrom builds undergoes a program of tests for frequency response, phase alignment and mechanical stress so that you can be sure that the **radix** loudspeaker you take home will perform as Ångstrom intended. If, within five years from the original date of purchase, it fails to perform as intended, and it is our fault, Ångstrom will correct the problem. See your owner's manual for details.

#### SPECIFICATIONS:

MODEL	Radix 200	Radix 300	Radix 400	Radix 500
Design	2-way, tuned port	2-way, tuned port	2-way, tuned port	3-way, tuned port
Freq. Range	50Hz-20kHz $\pm$ 2dB	45Hz-20kHz $\pm$ 2dB	40Hz-20kHz $\pm$ 2dB	40Hz-20kHz $\pm$ 2dB
Sensitivity	89dB	91dB	92dB	94dB
Min. Power	15WRMS / channel	12WRMS / channel	10WRMS / channel	10WRMS / channel
Dynamic Pwr Range	15-70W@10% clipping	12-85W@10% clipping	10-100W@10%clipping	10-100W@10% clipping
Nom. Impedance	6 Ohms	6 Ohms	6 Ohms	6 Ohms
Lo/Mid Freq. Drivers	165mm (6.5") mineral loaded polypropylene. Urethane suspension. 25mm Hi-Temp voice with aluminum former. 336gm ferrite magnet	200mm (8") polymer loaded polypropylene. Butyl suspension. 25mm Hi-Temp voice with aluminum former. 560gm Ferrite magnet	165mm (6.5") polymer loaded polypropylene. Butyl suspension. 25mm Hi-Temp voice with aluminum former. 336gm Ferrite magnet	200mm (8") polymer loaded polypropylene. Butyl suspension. 25mm Hi-Temp voice with aluminum former. 560gm Ferrite magnet
High Frequency Drivers	19mm polyamide dome Alum. former, <.2gm moving mass. Ferro-cooled & over-sized magnet assembly.	25mm polyamide dome Alum. former, <.3gm moving mass. Ferro-cooled & over-sized magnet assembly.	25mm polyamide dome Alum. former, <.3gm moving mass. Ferro-cooled & over-sized magnet assembly.	25mm polyamide dome Alum. former, <.3gm moving mass. Ferro-cooled & over-sized magnet assembly.
Crossover	2.8kHz Acoustic Butterworth	2.5kHz Linkwitz-Riley	2.5kHz Linkwitz-Riley	300hz 1st Order Diff. 2.5kHz Linkwitz-Riley
H x W x D cm	47 x 22 x 24	62 x 24 x 24	95 x 22 x 24	110 x 24 x 24
H x W x D in	18.5 x 8.5 x 9.375	24.5 x 9.5 x 9.375	37.5 x 8.5 x 9.375	43.5 x 9.5 x 9.375
Ship Wt (approx)	16.5 kg / pair (36 lbs)	25 kg / pair (55 lbs)	34 kg / pair (75 lbs)	50 kg / pair (110 lbs)

Ångstrom reserves the right to change specifications and / or features without notice as design improvements are incorporated. Printed in Canada.