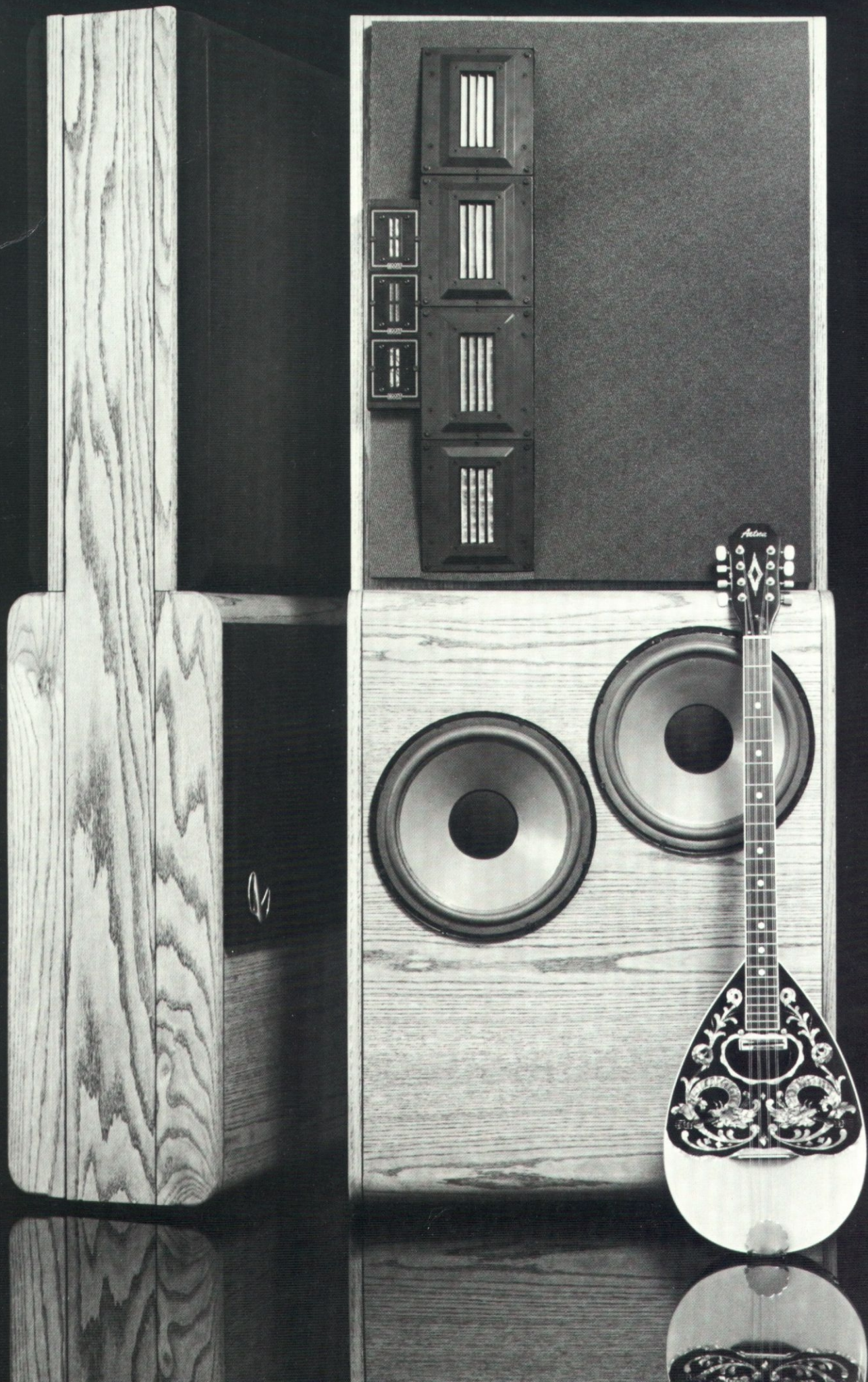


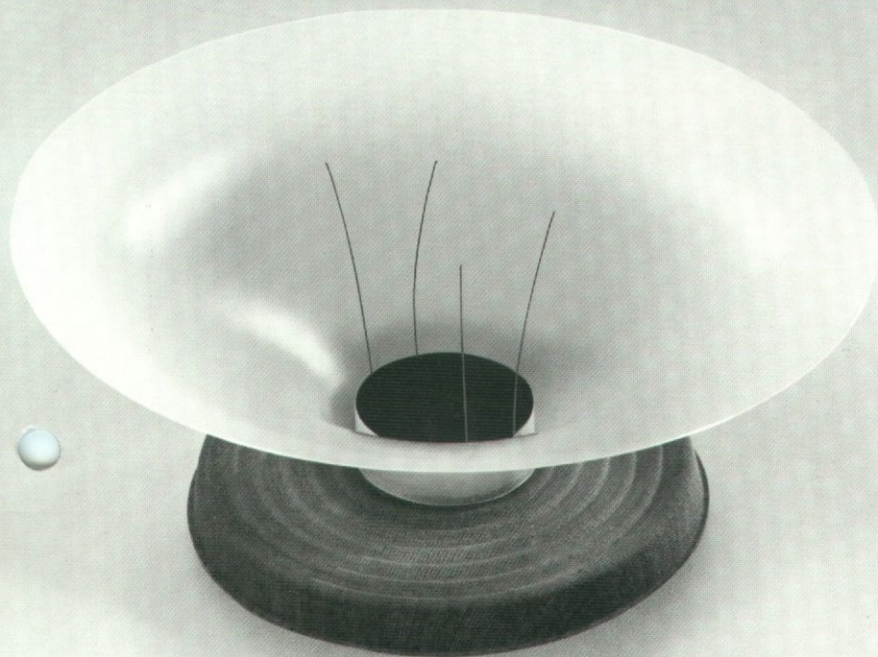
**A reference standard  
is an instrument  
against which  
all others are measured.**

**Infinity  
introduces the  
Reference Standard 4.5**









### **Infinity introduces the Reference Standard 4.5.**

A new standard of accuracy has been set. Never has one speaker system incorporated so many aspects of the state of the art:

A new cone material that, unlike paper, adds no sound of its own to distort the music; an Infinity/Watkins\* dual-voice-coil woofer which, because of the new cone material, has even greater clarity and gut-punching transient response; a new Electromagnetic Induction Midrange which extends the blessings of our renowned EMIT tweeter; electronic crossover and EQ controls; and more.

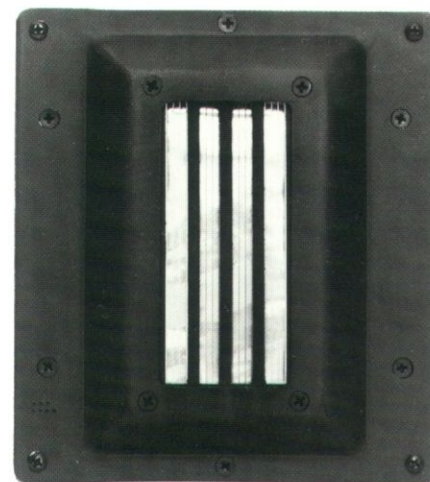
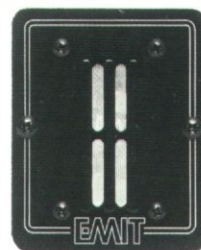
### **Polypropylene instead of paper: the end of cone distortion.**

All paper and plastic cones—treated or untreated—have inherent distortion. They vibrate spuriously, with a sound of their own, creating unacceptable anomalies in the music output. Polypropylene, which is a light, stiff, acoustically inert material, is, therefore, the ideal vehicle for a distortion-free rendering of the music signal.

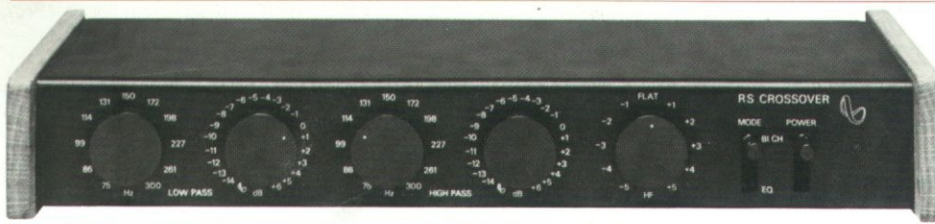
The patented discovery of the remarkable acoustic properties of this common material and its ability to faithfully transmit the taut snap of the midbass, coupled with the rolling ease of the lowest octave, now takes Infinity closer to our objective: the sound of music rather than the sound of speakers.

**EMIT™ gave new lucidity, power and wide dispersion to high frequencies. EMIM™ does the same for midrange.**

Infinity introduced the Electromagnetic Induction Tweeter™ in 1976 and critics throughout the world proclaimed it the highest achievement in tweeter technology. Now the same powerful rare-earth samarium cobalt magnets, the etched voice-coil on an ultra-low-mass diaphragm bring new accuracy and beauty to the critical midrange. The new EMIM gives our Reference Standard 4.5 a wealth of instrumental and vocal detail and an in-person reality that is nothing less than breathtaking.







## Electronic crossover and room equalization.

The Reference Standard 4.5 system consists of a pair of speakers and a control unit.

Besides its other functions, the control unit allows the speakers to be either bi-amplified or powered by a single stereo amplifier. For bi-amping, a switch on the front of the control unit and switches on the backs of the speaker enclosures are set to the "Bi-channel" position. For use with a single amplifier, the front switch is set

for the "Equalizer" mode, and a circuit combines the outputs of the high-pass and low-pass crossover filters into a wide-band signal. The capability for contouring the frequency response remains essentially unchanged.

To match the speakers to the room or to alter the frequency balance to taste, the control unit permits considerable variation in the response over the audio range. This is especially useful with some of the better pre-amplifiers which have no tone controls.

The units low and high pass frequency and level controls affect the response in the 20-1 kHz range. Control above 2 kHz is accomplished with the high frequency contour control.

The result is a speaker system with unparalleled flexibility, smoothness and imaging. The speakers virtually disappear; in their place is a broad and deep apparent sound source.

This exact stereo imaging and the system's caressing smoothness are hallmarks of Infinity engineering. They have never been more elegantly achieved than in the Reference Standard 4.5 system.

We believe it will be a long time before any other speaker system measures up to it.

## Reference Standard 4.5 Specifications

### Speakers

#### Frequency response:

24 through 32,000 Hz  $\pm$  3 dB

#### Amplifier power:

Bi-amping, minimum 100 watts per channel for bass section, 75 for midrange and high frequency. Single amp, minimum 100 watts per channel

#### Nominal impedance:

4 ohms

#### Drivers:

In each enclosure, (a) two 12" (30 cm) Infinity-Watkins Dual-Drive Woofers with polypropylene cones; (b) four Electro-magnetic Induction Midrange (EMIM) drivers in a dipole configuration, and (c) four Electromagnetic Induction Tweeters (EMIT), one of them facing rearward

#### Crossover frequencies:

200 (adjustable as indicated below) and 5,000 Hz.

#### Dimensions:

64 $\frac{1}{2}$  inches x 26 $\frac{1}{2}$  wide x 14 $\frac{1}{2}$   
(160.6 cm x 66.25 wide x 36.25)

#### Finish:

Solid oak and veneers.  
Cloth grille and its frame are removable

### Control unit

#### Low pass and high pass crossover frequencies:

The electrical "3 dB down" frequencies of the low and high pass outputs are separately adjustable in 5  $\frac{1}{2}$  octave steps from 110 to 440 Hz. Center position is 220 Hz.

#### Low and high pass output:

Output level of the low and high pass outputs are adjustable in 22 steps of 1 dB each from +6 dB to -14 dB to off. The 0 dB mark corresponds to unity gain in each filter's pass band

#### High frequency contour:

Boost or cut in frequencies above 2 kHz can be adjusted continuously from approximately +5 to -5 dB at 15 kHz; center position flat

#### Other controls:

Bi-channel/equalizer; power on-off; equalizer bypass switch on rear panel

#### Electrical specifications:

Crossover slopes: 6 dB/octave, transient perfect equalizer sum. Harmonic distortion: <0.02% 20 Hz -20 kHz 4V RMS out. IM Distortion: <0.02% 4V RMS peak equivalent slew rate; 12V/ $\mu$ s; input impedance 100 k; output impedance 1.5 k; power consumption 3 watt

#### Dimensions:

10 $\frac{1}{4}$  inches x 14 $\frac{1}{4}$  wide x 2 $\frac{1}{8}$   
(26 cm x 36.2 wide x 5.4)

#### Warranty:

Five years, transferable (see complete warranty statement)

Because Infinity strives always to improve existing products, specifications and prices are subject to change.

 **Infinity**<sup>TM</sup>

We get you back to what it's all about. Music.