

# the INFINITY 1001A



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The Infinity 1001A is a cosmetic update of our already famous 1001. The 1001A has received a new enclosure with a dramatically sculptured grill consisting of distinctive knit fabric. The sonic features of this system remain unchanged. High Fidelity Magazine said of the 1001, "*The Infinity 1001 negotiated even the most demanding orchestral material with ease, conveying a sense of excitement not often experienced with systems in this price range.*"

## THE TWEETERS

The Infinity 1001A utilizes two exceptional cone tweeters: one in the front (the transient tweeter) and the other in the rear of the enclosure (the ambient tweeter). The front (or transient) tweeter gives the direct radiation with its transient information to yield sharpness and clarity to the sound. The rear (or ambient) tweeter adds complete dispersion of the high-frequency radiation to re-create the true instrumental character actually in space, rather than in a flat plane. The two tweeters are coupled together through a special phasing and frequency contour network which maintains the *energy* response beyond 20 KHz without the usual high-frequency beaming that imparts stridency to the music. This effect can be had with the enclosures placed no more than an inch from the rear wall; however, a more dramatic and realistic effect can be had with at least six inches separation from the rear wall.

## THE WOOFER

Another unusual feature for this price system is the bass section. A specially designed *twelve inch* woofer is utilized. The woofer itself undergoes two separate and distinct treatments. Firstly, the soft paper cone is permeated with a plasticizing agent which adds enormous stiffness to the cone. Secondly, thick asbestos compound is applied to damp out spurious modes produced by increasing the stiffness. Essentially

all spurious modes and resonances are thereby removed so that the speaker acts as a superb piston even throughout the critical midrange area.

The treated woofer is then utilized in our famous transmission line enclosure. This enclosure design exhibits a very uniform impedance characteristic yielding non-resonant bass with none of the familiar hangover of the acoustic suspension designs.

Another reason for the extremely natural quality of the Infinity 1001A is that no inductors nor any other crossover network is used with the woofer. It was designed with exactly the correct phase and frequency response characteristics to meld smoothly into the tweeters.

## 1001A SPECIFICATIONS

### Frequency Response:

33 Hz to 21 KHz  $\pm$  4.5 db

### Crossover Frequency:

1300 Hz (acoustic)

### Nominal Impedance:

8 ohms

### Minimum Amplifier Power:

20 watts/channel RMS

### Rear Radiation:

50% above 1300 Hz

### Dimensions:

25" high, 14½" wide, 12" deep



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