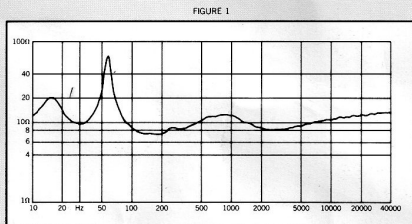


RTR Model HPR-12 Magnum

RTR Model HPR-12 Magnum

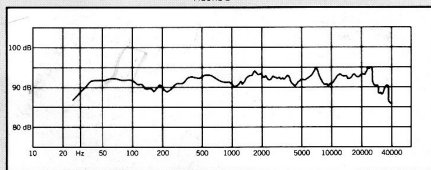
The HPR series of transducer systems was designed for the audiophile who does not have an extraordinary amount of power in his amplifier. Many of today's low-powered amps and receivers are of otherwise excellent quality, and the HPR series was made for these components. In the original HPR-12, the Helmholtz driven passive radiator was utilized to obtain an efficient and powerful low end. This idea has been extended to the HPR-12 Magnum, with the addition of an even more powerful 12" woofer incorporating a 3" voice coil (the HPR-12 has a 2") in the active transducer portion. This results in 50% more handling power and 4 dB more output.



Model HPR-12 Magnum
IMPEDANCE, All Controls at "max"

RTR has retained the 5" midrange component because of its unusually smooth performance and high power handling capacity. However, the high frequencies are now handled by two 2½" tweeters and one piezo-electric super tweeter. The chief advantage of the piezo-electric transducer is: (1) lower distortion, less than 1.8% THD; (2) greater linearity; (3) extended response out to beyond 25,000 Hz. In addition, the RTR piezo-electric tweeter is capable of handling up to 35 volts by itself. When combined into the HPR-12 Magnum system, the speaker can handle 100 watts of program material. This is particularly impressive when you consider 1 watt will drive the HPR-12 Magnum to 92 dB.

FIGURE 2



HPR-12 Magnum characteristic anechoic on-axis frequency response curve for one watt approx (3 volts) input, mic at 4 ft., (typical room response ± 3 dB of shown curve without equalization, using only midrange and treble controls).

Each developmental area of the HPR-12 Magnum has been totally engineered consistent with RTR's total capability program. For instance, the reactive load of the piezo-electric super tweeter has been completely neutralized by RTR's innovative constant impedance input network. Without this network, many solid state amplifiers would become unstable—leading to potential damage of the amplifier and loudspeaker. Indiscriminate employment of modern transducers does not meet the total needs of the discriminating audiophile.

Audition the HPR-12 Magnum at your nearest RTR franchised dealer and experience a first in the world of sound reproduction—high efficiency plus true audiophile performance. The HPR-12 Magnum, a product of RTR Total Capability.

HPR-12 Magnum Specifications

Enclosure:

Hand rubbed, walnut veneers

Size:

14½" x 36" x 13" deep

Shipping Weight:

72 lbs.

Frequency Response:

30 to 25,000 Hz

Speaker Complement:

One 12" passive radiator, one 12" woofer with 3" voice coil, one 5" midrange, two 2½" high impedance tweeters, one 3" solid state super tweeter

Crossover Frequency:

1500 Hz and 7500 Hz

Impedance:

8 ohms, nominal

Recommended Amp Power:

15 to 100 watts continuous into 8 ohms

Controls:

Midrange and tweeter continuously variable controls, speaker protect circuit breaker (with pushbutton reset), dual 5-way binding post.



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