MAGNEPLANARMGIII

CHARACTERISTICS

The MG-III loudspeaker is a three-way system with bi-amplification option. It utilizes a unique, patented* ribbon tweeter in conjunction with a new generation planarmagnetic driver.

The 5-foot long tweeter is a true ribbon design, completely new in that it is a line source device, transformerless, and bipolar. It utilizes an ultra-light aluminum foil ribbon, providing outstanding transient response and high frequency extension. Its direct-drive design eliminates dynamic compression and distortion associated with transformers. The near-perfect polar response results in superb image stability regardless of listener's position.

The midrange/bass section of the MG-III utilizes Magnepan's highly evolved planar-magnetic principle. This driver is the largest Magnepan has ever designed, providing excellent response into the 30 Hz range. The midrange section is partially isolated along one edge of the common diaphragm, resulting in a *midrange* that is as fast and articulate as the *tweeter* is in current MG Series models.

To approach musical perfection in a loud-speaker, all drivers *must* be of similar overall characteristics—the MG-III achieves this by employing: line source, bipolar, transformerless and low mass driver technologies in both the new ribbon tweeter and the time-tested planar-magnetic midrange/bass.

*U.S. PAT. NO. 4,319,096



MAGNEPLANARMGIII

SPECIFICATIONS

System Description:

3-way, combination planar-magnetic and true ribbon tweeter with bi-amplification option

Bass Section:

620 sq. in. planar magnetic

Midrange Section:

170 sq. in. planar magnetic

Tweeter Section:

1/4 in. wide, 57 in. long x.0001 in. thick true ribbon

*Frequency Response:

±4 dB from 37 Hz⁺ to 40 KHz

Polar Response—Ribbon Driver:

180° horizontal dispersion both front and back @ 20 KHz

Minimum Recommended Power:

50 Watts RMS (8 ohms rated)

Maximum Recommended Power:

200 Watts RMS (8 ohms rated)

Sensitivity:

1 Watt RMS, 500 Hz, 85 dB @1 meter

1 Watt RMS, 20-40,000 Hz pink noise, 83 dB @1 meter

†The MG-III can provide linear response to 32 Hz when installed correctly in a room of adequate size.

Impedance:

Purely resistive: Bass-4 ohms

Midrange & ribbon tweeter—3 ohms

Crossover System:

Low-pass (Bass): 18 dB Butterworth @300 Hz High-pass (Midrange/Tweeter): 6 dB @800 Hz

All crossovers furnished for full-range or bi-amp operation

Crossover between midrange and tweeter is approximately 3000 Hz and is non-defeatable

Dimensions:

23 in. wide x 72 in. high x 2 in. thick

Weight:

52 pounds each panel

Finish:

Oak frame and trim. Panel covered with off-white cloth

CROSS SECTION MIDRANGE-BASS

Warranty: (Limited)

Non-transferrable—Ribbon foil element—1 year
Balance of speaker—3 years

Shipping Weight:

135 pounds

Because there are no universally accepted methods for loudspeaker measurements, frequency response specifications may be stated by most manufacturers without reference to measurement techniques and/or specific locations in rooms. MAGNEPLANAR loudspeaker frequency response curves are minimum average performance levels that may reasonably be expected in normal installations. Since there are no limitations on how specifications may be stated, we recommend careful listening comparisons to determine which loudspeaker sounds the most natural.

TWO UNIQUE PRINCIPLES OF OPERATION . LINE-SOURCE RIBBON DRIVER NEAR-PERFECT POLAR RESPONSE WIDEBAND OPERATION PURELY RESISTIVE **ULTRA-LOW MASS** MUNIMUA LINE RADIATOR RIBBON **-MAGNETS** DIRECT DRIVE LIRON POLEPIECE BIPOLAR CROSS-SECTION RIBBON TWEETER STATIC MAGNETIC FIELD 2. PLANAR-MAGNETIC DRIVER **ALUMINUM WIRE** BIPOLAR **VOICE GRID** LOW MASS .0005" MYLAR DIAPHRAGM - SPACER LOW DISTORTION LIFE LIKE IMAGING PERFORATED PERMANENT BAR MAGNETS STEEL PLATE LINEAR POWER RESPONSE

PURELY RESISTIVE IMPEDANCE

NO CABINET TO COLOR SOUND