



GRAND ORPHEUS

The most ambitious loudspeaker project made by Margules Audio, incorporates our constantly developed expertise, true craftsmanship and years of accumulated experience, with the best available components. It was engineered for extremely accurate sweet dynamic sound that reveals spectacular detail, unveiling the most subtle variations with astonishing transparency.

Pinnacle

The angled pyramid shaped upper part virtually eliminates edge diffraction effects to minimize comb filtering or "Venetian blinding" (abrupt changes in frequency response with horizontal movement) and has no parallel walls avoiding standing waves. This unit incorporates a ceramic woofer and tweeter, with ultra hard dome material that moves like a piston well above the audible frequency and the high internal sound velocity that features very low distortion and virtually no coloration. The 2 inch MDF sandwich is coated internally with a stiff compound covered with and a ultra dense wool as damping treatment. The internal reinforced braced structure avoiding the transfer of acoustic energy throw the walls of the unit . The beautiful pyramidal mahogany polyester hand finished cabinet is extremely rigid, to improve imaging and avoid coloration.

Foundation

Is the support for the "Pinnacle" and incorporates a dual section, the first one has a 61/2 inch Kevlar honeycomb loudspeaker that acts as a diffraction losses compensation (DLC) and the second part hosts a perfectly matched adjustable active subwoofer that complements the system allowing it to reproduce the lowest audible frequencies. Both sections are separated by an internal wall allowing the drivers to be loaded independently avoiding undesired interactions.

The External X-Over

The design is based in a first-order network for phase coherency and constant group delay. It embodies sophisticated impedance and amplitude equalization to deliver maximum performance from each driver. Premium audio grade components assure sample-to-sample uniformity (critical for good imaging) and superior sound quality. The air core coils are made from a dual strand of continuous cast copper, and the capacitors are polypropylene. The external cross over avoids coloration produced from vibrations from the loudspeaker. The Grand Orpheus meets the requirements of "minimalist" audiophile recordings that require a uniform polar response.

Frequency response:

17 Hz-45 kHz

Sensitivity:

86 dB

Impedance:

8 ohms

Max. Sound Pressure:

110 dB

Weight:

120 kg each

Weight:

5 kg each

Dimensions (height, width, depth):

125 cm x 35cm x 56cm