



EMB-1500 Energy Multiplied Bandpass Subwoofer



Energy Multiplication is achieved using two sealed air chambers with a powered internal driver, and a pneumatically phase-coupled radiator. At various bass frequencies, the coupled radiator is displaying a greater excursion and thus greater output than the internal powered driver!

The high performance internal driver is housed in one of the two critically damped control chambers, which store and release tremendous energies. Finally these energies are released through the coupled radiator. This design reduces distortions to levels well below other active/passive or signal compared designs while at the same time increasing sonic output and impact.

The internal high performance power amplifier (1000 watts rms) delivers twice the output required for the EMB-1000 to reach full volume. Combined with the "Energy Multiplied Bandpass" design, this means that even during heavy load conditions the EMB-1500 is working effortlessly.

This translates into ultra high performance with extremely low distortion, highly defined bass impact, and musicality.

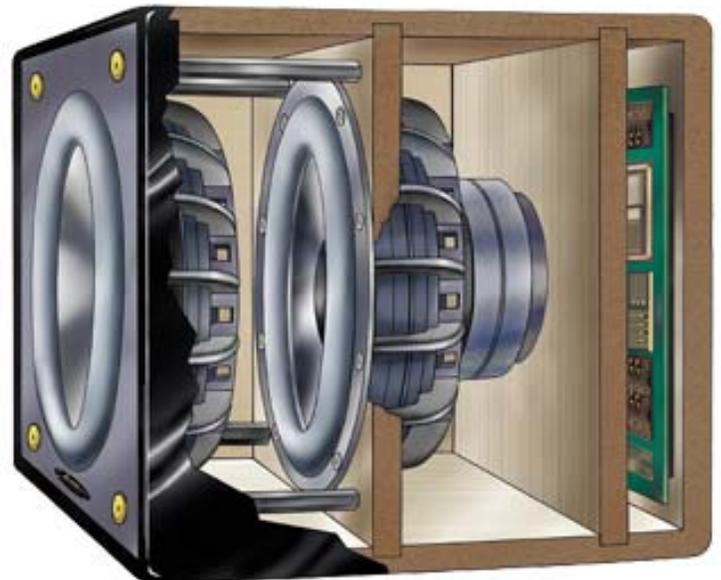
Dual-internal control chamber design (bandpass) creates critical damping of the powered internal driver providing tremendous energy storage and release, in addition to quicker rise and decay times.

The Energy Multiplying Bandpass enclosure design precisely directs all the systems resonant-bass energies into the coupled radiator. The coupled radiator then delivers an energy multiplied bass impact into your theater room. It's like getting more bass energy out than you've put in!

At many frequencies the excursion of the coupled radiator is greater than that of the high powered internal woofer resulting in a far greater overall system efficiency and higher output.

Accurate air chamber design calculations were required to make each of these enclosure qualities work in concert with each other. Precise custom woofer and radiator designs are also required. If any of these hundreds of critical calculations are even slightly off, the energy multiplying reaction would not occur.

The rear most air chamber acts to contain and release these tremendous energies and control the active driver while aiding in its bass production. The forward air chamber precisely directs these energies, as well as the energy multiplied system resonances, into the phase coupled radiator which then releases them onto the listening room.



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