

CASS AUDIO INC.

POWER TOWER II

The Power Tower II (patent pending) is the midsize floor standing loudspeaker system from CASS Audio. It stands 51 inches tall and houses an impressive driver complement. A massive 15 inch subwoofer (PR) and four 12 inch, long throw 200 watt woofers, each with a 60 ounce magnet, 2 inch voice coil and vented pole piece ensure impressive, strong, clean bass response to below 17 HZ! The driver's fiber cone, together with its suspension, push the free air resonance down to an incredible 15 Hz!

The four 12 inch woofers are arranged in Isobarik compound woofer configurations that cancel out harmonic distortion. These woofer arrays are acoustically coupled to a user tunable 15 inch subwoofer (PR) that takes the response all the way down to 17 Hz!

At 300 Hz the system crosses over, via Mr. Edwards' all pass filter, to the two 4.5 inch midrange couplers. These ultra low distortion, high power drivers, housed in their own hermetically sealed and tuned enclosure, employ large 12 ounce magnets to obtain their smooth frequency response and spectacular dynamic range. At 3 KHz the system crosses over to the high frequency titanium inverted dome driver that matches the midrange and provides a unique clarity and transparency of sound all the way out to 27 KHz.

The Power Tower II is equipped with a unique room acoustic compensation tool (patent pending). conventional speaker system controls provide for a "plateau" type acoustic compensation that boosts the frequency spectrum in the shape of a step. Many listening rooms, however, exhibit a high frequency loss in the form of a slope in which the high frequency loss increases as frequency increases. The Power Tower II provides both the plateau and slope types of compensation. The slope compensation is provided by the super tweeter driver and its circuitry and is variable for adjustment to taste. If used correctly, the result is a speaker system equalized to the room acoustic environment so that a flat composite response is realized. In fact, the result is so dramatic and the idea so unique that a patent has been applied for.

Mr. Edwards' all pass and true minimum phase filters combine with his driver complement to produce a frequency response, distortion free dynamic range and realistic sound stage to thrill the most demanding audiophile.

The Power Tower II system is sold in matched pairs in which the left and right cabinet front baffles are mirror images of each other. The cabinets are finished with a fine, hand rubbed, varnished, oak finish. Exotic hardwoods are available at additional cost.

POWER TOWER II TECHNICAL SPECIFICATIONS

Driver complement:

- ♦ One 15 inch, long throw user tunable subwoofer (PR) for adjustable bass.
- ♦ Four 12 inch, 200 watt, long throw fiber woofers. Each woofer has a 60 ounce magnet, two inch voice coil, vented pole piece and rubber surround.
- ♦ Two 4.5 inch long throw, low distortion, high power midrange drivers.
- ♦ One high power inverted titanium dome tweeter.
- ♦ One high power super dome.
- ♦ One optional rear firing high power titanium dome tweeter.

Nominal impedance: 4 ohms.

Crossover frequencies: 300 Hz, 3 KHz.

Frequency response (+/- 2 dB using 1/3 octave averaging):

- ♦ 17 Hz to 55 KHz.

Maximum sound pressure level measured at one meter: >123 dB.

Sensitivity: 94 dB/watt/meter.

Minimum required amplifier power: 25 watts.

Power handling capacity:

- ♦ 600 watts, continuous;
- ♦ 1400 watts peak.

Polypropylene capacitors.

12 AWG copper ultra low capacitance internal wiring for woofers.

High current rear terminals accept banana plugs.

Biamp capability (no external crossover required).

Midrange and treble level controls.

High frequency variable slope compensation for room acoustics.

User adjustable bass by means of user adjustable 15 inch subwoofer.

Beautiful hand rubbed varnish finish.

Removable front grills.

Size in inches: 51H X 24.5W X 18D.

Weight: 185 lbs. per side.

The following options are available at extra cost:

- ♦ Choice of hardwoods.
- ♦ Choice of cabinet color.

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