

VANDERSTEEN

MODEL 1B



DIMENSIONAL PURITY

The VANDERSTEEN Model One

A precisely aligned dynamic design, blending common-sense innovations with proven technology, gives the VANDERSTEEN Model One many advantages:

- computer-optimized driver placement and cabinet design virtually eliminate the interference patterns usually associated with multi-way speakers
- lack of out-of-phase rear wave cancellations and interpanel interference allows many placement options in the listening room
- basic design concepts produce exceptional efficiency, extended dynamic range, and a point-source wave front for correct sound-stage replication
- overall polar response pattern resembles the studio microphone pick-up pattern for better imaging and a broader listening area

The Active Components

Custom manufactured drivers (an 8" die-cast basket with curvilinear polycone woofer and a 1" dual chamber polymer dome tweeter) ensure linear operation well beyond the cutoff frequency for near seamless blending. The woofer system, in-

cluding rear slot loading, comprises a fourth-order filter. The tweeter incorporates low moving mass for excellent transient response and extended bandwidth.

■ high efficiency and smooth impedance curves provide unlimited amplifier compatibility

■ driver design eliminates "edge clamping" distortions present in all planar diaphragm loudspeakers.

By correcting for "real world" conditions—such as cabinet losses, thermodynamic losses, and active/passive transfer anomalies—the VANDERSTEEN Model One functions more like an ideal speaker than do conventional designs. Such performance is possible because computer analysis guided the driver selection process, and each speaker was tested for minimal cone break-up, internal defraction, and out-of-band phase irregularities. An innovative circuit design permits these drivers to operate in absolute phase with each other, preserving the dimensions of live music. The result: a level of sonic purity and listening enjoyment that far exceeds the modest cost.

The Crossover

The transient perfect first-order dividing network uses air core inductors with polypropylene and polycarbonate capacitors in the signal path. Phase compensating networks allow ideal

transient response; impedance-compensating networks avoid the frequency response irregularities associated with typical crossovers.

The Construction

The VANDERSTEEN Model One is constructed entirely from a wood product far denser than particle board to minimize induced resonances. FFT (Fast Fourier Transform) analysis during

all stages of assembly guarantees that each speaker matches its mate within .5dB for precise imaging.

The Almighty Specification

Even with advanced test equipment and complex computer analysis, loudspeaker design remains an incomplete science. No measurements fully describe how a speaker sounds or provide a meaningful comparison between different designs. Truth lies in listening.

IMPEDANCE
6.8 ohms \pm 2 ohms

EFFICIENCY
90dB with 1 watt of pink noise input
at 1 meter on axis

RECOMMENDED AMPLIFICATION
20 to 100 watts per channel

FREQUENCY RESPONSE
38 to 20,000Hz \pm 3dB
44 to 18,000Hz \pm 1.5dB

DISPERSION
38 to 15,800Hz \pm 3dB
at 90 degrees off axis

CROSSOVER FREQUENCY
2800Hz 6dB per octave slope

PHYSICAL DIMENSIONS
36" high, 12" wide, 10" deep
45# net, 50# gross, each

WARRANTY
Limited 1 year warranty, extended
to 5 years with optional
warranty registration

The Company

Vandersteen Audio opened in 1977 with a strong commitment to offering the finest musical reproduction at affordable prices. Continuing that commitment, we introduce new innovative products and improve existing ones. Growth and market demands are not allowed to compromise the quality of our products. We put pride, love, and personal satisfaction into each speaker before it leaves our facilities.

VANDERSTEEN AUDIO

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Specifications and design are subject to change without notice due to our continuous research and development program.

Brochure designed by Ron Rick

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