

RAVEN



EBB

In a recording, the sound characteristics of voice, instrument and room acoustics are captured all at once. When you play the same recording back at home, your room acoustics colors the sound with reflections, time delays and frequency anomalies of its own. It has been said that the largest distortion in your audio system is your room acoustics and this may not be far from the truth.

Many speakers try to control the directional characteristics of the speaker. The challenge is, how to control directional characteristics at all frequencies equally...

CARDIOID SPEAKER

Since voice is recorded using a cardioid directional microphone to reduce pick up of room acoustic feedback, doesn't it make sense to design a speaker cabinet that would do the same thing? That's what we thought too. The Ebb is designed as a cardioid speaker, essentially matching in it's room response, the typical cardioid microphone.

The Ebb works by canceling out the sound at the back of the cabinet eliminating any front wall reflection. This is achieved by having a pair of midbass drivers at the back of the cabinet, similar to the midbass drivers working from the front of the cabinet. These drivers play exactly what the front drivers play except they are playing out of phase and with modulated amplitude (using a two position switch to adapt to most rooms and situations). Also, by design and construction, the Ebb's cabinet greatly reduces both sidewall and front wall reflections. This effectively removes any distortion caused by your room's acoustics and allows you to experience the original recording in it's purest form.

Timbre, Pitch, Loudness, Depth, Width and Height are so vastly improved that a true soundstage is realized right in your own listening room. This enables you to clearly hear each row of a choir and each row of a band or orchestra. The natural decay of instruments becomes more apparent as does the recorded space and hall ambience in many live recordings.

Experience the Ebb, a revelation in the purity of sound reproduction.



RAVEN



EBB

SPECS

SENSITIVITY	86 dB 2.83 volt 1 meter
NOMINAL IMPEDANCE	6 ohms
MINIMUM IMPEDANCE	5 ohms
FREQUENCY RESPONSE	+/-3 dB 40Hz to 50kHz
MIN AMPLIFIER POWER	20 watts = 99 dB peak at 1 meter
MAX AMPLIFIER POWER	250 watts = 110 dB peak at 1 meter

HARDWARE

CROSSOVER	Polypropylene capacitors, air core inductors
CABINET	CNC cut Baltic Birch Plywood with venturi vent and 51 internal braces. Assembled with high dampening elastomeric adhesive.
WIRING	Oxygen free copper
TERMINALS	Bi Wire Terminals; Cardas Pure Copper

DRIVERS

TWEETER	Raven Point Source (Pure Aluminum Ribbon)
WOOFER	Four 5.25 inch sandwich cone with phase plug
REAR CARDIOID CORRECTION	Two 5.25 inch sandwich cone with phase plug

DIMENSIONS

HEIGHT	35.3 inch (+ 3" for feet)
WIDTH	11 inch
DEPTH	16.25 inch
WEIGHT	86 lbs.