Product Information Sheet

Isobarik Aktiv Crossover

Introduced -1987 Discontinued - 1992

The Aktiv was the culmination of many years of research by Linn. While it has long been recognised that active crossover systems can improve loudspeaker performance, the Linn Isobarik Aktiv was the first electronic crossover to realise the full potential of an active loudspeaker system.

Active & Passive

With a conventional passive crossover, the signal from the amplifier is divided into frequency bands (bass, mid & treble) by a passive circuit, usually located within the loudspeaker cabinet. It is not mains powered, hence the description “Passive”. The power required by this passive filter network to distribute & divide the signal is derived from the music signal itself – the drawbacks of this are obvious.
By contrast, an active system separates the sound into bass, midrange & treble before amplification – the amplifiers then send these signals directly to the speaker’s respective drive units.

Paul O'Neill - Aug 2000

TECHNICAL SPECIFICATIONS

General Specifications

Mains supply	100V; 115V; 200V; 220V; 240Vac (50/60Hz). Voltage not configurable – to change voltage, it is necessary to exchange internal power supply
Power consumption	20 Watts
Dimensions	Width:320mm; Depth:265mm; Height:75mm
Weight	4Kg

Electronic Specifications

Input impedance	2 Kohms
Maximum source impedance	600 ohms
Output impedance	200 ohms
Minimum load impedance	600 ohms
Nominal input level	1.0 V rms
Gain on each band	0 dB to +12 dB (adjustable in 0.25 dB steps)
Distortion	< 0.1%
Connections	3-pin male XLR Pin 1: GND Pin 2: Left channel Pin 3: Right channel

Acoustic Specifications (when used with Linn Isobarik loudspeakers)

Crossover Frequencies	Bass to Midrange – 200Hz (2^{nd} order) Midrange to Treble – 2.7KHz (4^{th} order)
Achievable near-field frequency response	50Hz to 20Khz +/- 2dB
Achievable near-field Phase response linearity	50Hz to 20KHz +/- 45degrees

Paul O'Neill - Aug 2000