



A distinctive feature of these speakers is the isobaric configuration, which uses two bass drivers working synchronously within a single enclosure to enhance low-frequency performance. Scratch brings majestic sound to compact spaces, blending innovative engineering with refined acoustic aesthetics — ensuring that even the smallest room resonates with the symphony of grand sonic experiences.

Inspiration

When designing the Scratch series, our goal was to create compact loudspeakers ideal for those with limited space who still demand the sound quality typical of larger systems. To achieve deep, high-quality bass from a small enclosure, we chose an unconventional solution — the isobaric system. Though rarely used due to its structural complexity and higher production cost, Kultura Dźwięku decided to embrace this challenge to deliver uncompromising performance in a minimalist form.

Construction

The isobaric setup employs two 15 cm STX drivers with cellulose cones. One driver is visible on the front panel, while the second is mounted inside the enclosure. The two units are connected by a small coupling chamber, while the main enclosure operates as a bass-reflex system.

The tweeter, also from STX, is slightly recessed relative to the front baffle to improve time alignment, and its felt damping ring effectively reduces diffraction, resulting in a smoother, more natural high-frequency response.

About Us

Kultura Dźwięku draws inspiration from classic vintage designs and reinterprets them for the modern era, giving them a new form and a 21st-century character. Our speakers are designed for those who seek not only exceptional sound but also equipment that becomes a distinctive element of interior style and aesthetics.

SCRATCH

The frequency division at 1.9 kHz is managed by a crossover featuring a 6 dB/oct slope for the mid-bass section and 12 dB/oct for the high-frequency section. The components used include Jantzen polypropylene capacitors, non-inductive resistors, a ferrite-core inductor in the mid-bass circuit, and an air-core inductor in the high-frequency path.

Thanks to the relatively simple filter topology, the impedance drops only slightly, reaching a minimum of 3 Ω. The speakers deliver a sensitivity of 84 dB, power handling of 50 W, and a nominal impedance of 4 Ω, with the -6 dB low-frequency cutoff starting at 60 Hz.

Type
Floorstanding loudspeaker

Enclosure

Bass-reflex

System

2-way

Woofer

**2 × 5.9" steel basket,
cellulose cone**

Tweeter

25 mm polycarbonate dome

Impedance

4 ohm

Frequency response

60 do 20000Hz

Sensitivity

84dB

Rated power

70 W

External dimensions

20x30x29 cm

Weight

7 kg each

Available in any color,
recommended colors:



Elephant



White



Chrome green

