Swissonor.ch B.A.C.H.10

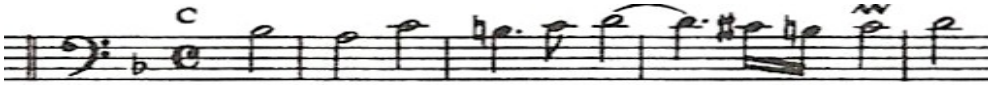
“Bringing back life to music »

B.A.C.H. 10 = Bass Adjustable Coaxial Horn with 10” driver

2-way coaxial and coplanar loudspeaker with Tractrix-horn, featuring fine adjustment in the low end and discrete adjustable mid-high frequencies.

Innovative and unique solutions, combined in a compact high-end concept, bring you uncompromised sonic performance.

This product is handcrafted in Switzerland. More than 65 percent of the costs are generated in Switzerland, 25 more percent in the bordering countries.



Goals

The basic idea was the design of a high-efficiency loudspeaker combining several contradictory requirements allowing reproduction of living music as vector of intense emotions:

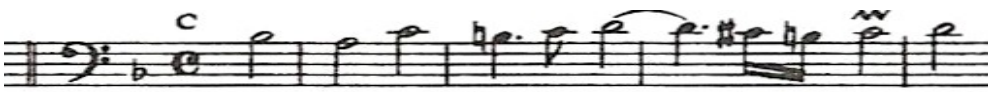
- **Relaxed listening** of all music styles, from very low to very high levels
- **The use of amplifiers covering all power classes,** explosive dynamics even with single-ended tube amplifiers with power as low as 4 W per channel
- **Reproduction of infinite details,** without projection, due to the placement of the driver diaphragms in a unique coaxial and coplanar configuration. This feature brings better spatial reproduction fidelity, too. In classic coaxial designs, the high-frequency driver diaphragm is situated far behind the low-frequency driver, resulting in huge high-frequency delay. Some loudspeaker-manufacturers introduced complex time-delay networks for the low-frequency driver to compensate this inconvenient.
- **Enhanced listening zone** (horizontally and vertically) due to the housings diamond-shaped section, facilitating the angular placement. The controlled directivity results in a smooth polar diagram in both planes.
- **Extreme dynamics** thanks to the very high efficiency combined with high power rating. That's the only way to avoid the audible thermal compression of classic loudspeakers.
- **Easy placement,** adjacent to a wall or even near a corner. The 2 π environment is integral part of the loudspeaker design. The fine-tunable bassreflex opening and the discrete adjustable mid- and high range allow optimized integration in rooms of different size, adsorbtion rates and listening distances.
- **Less excitement of room resonance and echoes** due to controlled directivity and high efficiency. This can be explained by the (to easily forgotten) physical law of energy continuum.
- **Long term reliability** and value conservation due to oversized long-life components. All parts have been selected by numerical simulation, measuring and during hundreds of listening hours using objective and subjective quality criteria.

- Drivers for professional use, designed and built in Europe
- Bass/Midrange driver: Cast aluminium frame, vented core and spider
- Compression driver : Self-centering diaphragm, field replaceable
- Selfs : Mundorf ribbon self
- Capacitors : Polypropylène 400V, loss angle < 0,0003
- Resistors : Cement
- Internal wiring : Signal cables in quad configuration
- Connectors: Laboratory connectors 1000V 24-32 A

Technical specification

Continuous noise AES standard.....250 W
Program power (6dB crest factor).....400 W
Peak power <1oms.....800 W
Rated impedance.....8 Ohm
Sensitivity (Thiele half space reference efficiency).....96 dB(1W/1m)
Maximum acoustic output (1 loudspeaker).....116 dB
Maximum acoustic output (pair of loudspeakers).....122 dB
Frequency range in-axis .....50 – 18'000 Hz(+/- 3dB)
Recommended amplifier rating (tube amps).....4 - 30 Watt at 8 Ohm
Recommended amplifier rating (solid state amps)..... 20 – 80 Watt at 8 Ohm
Maximum reasonable amplifier power.....300 Watt at 8 Ohm
Frequency dividing network, free air cabled..... .....1,4 kHz, 12 dB/octave
Low frequency adjustment range.....+/-2 dB continued
Medium-high adjustment range.....+/-1,5 dB discrete
Polarity : Positive voltage on red terminal gives forward cone motion
Housing : Handmade from plywood with natural wood veneer , 2-component lacquer
External dimensions (including spike)..... 320 x 320 x 950 mm

Hearing is believing, come in for a listening session at:



Swissonor.ch Frei CH-1256 Troinex, Fax 0041/ 22 784 63 69
http://www.swissonor.ch, info@swissonor.ch