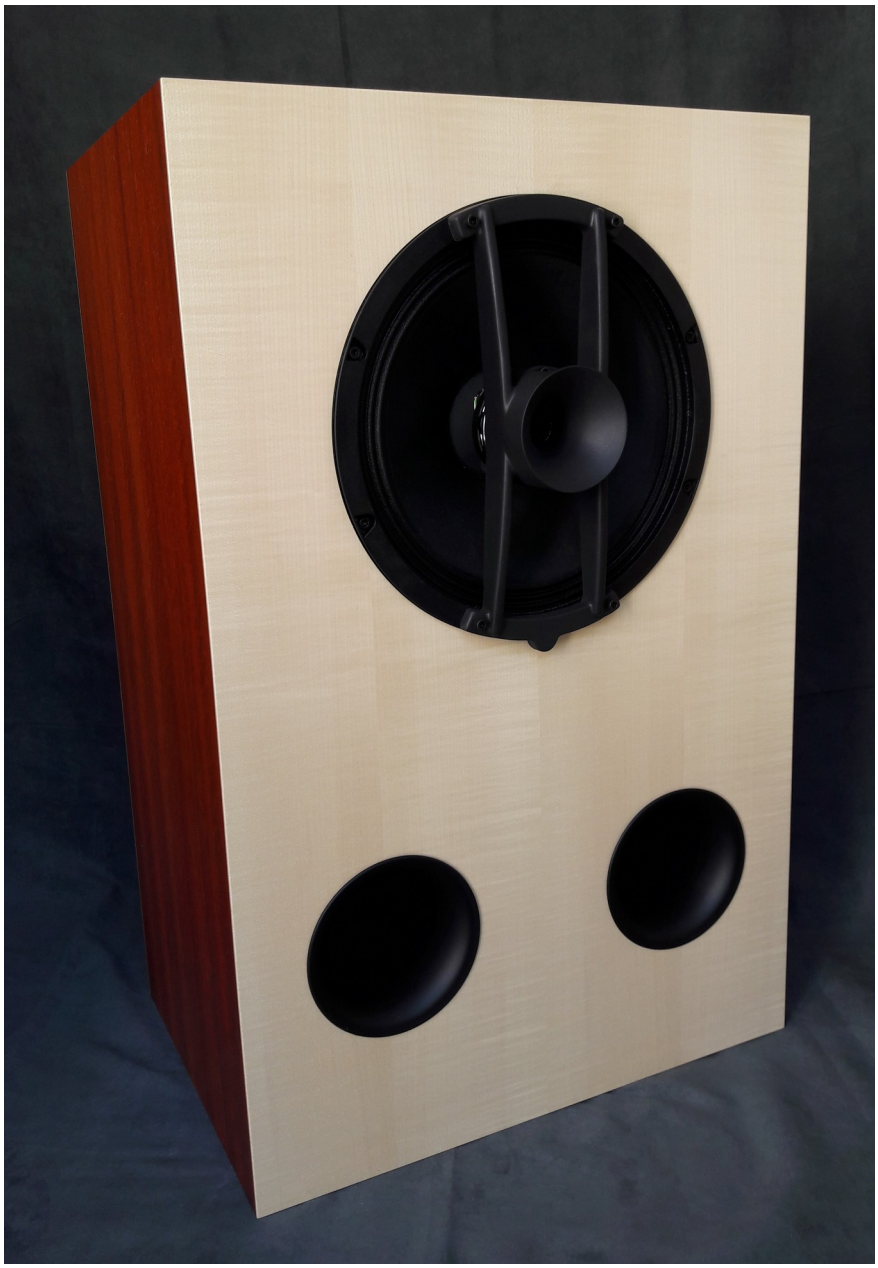
Swissonor.ch B.A.C.H.12d

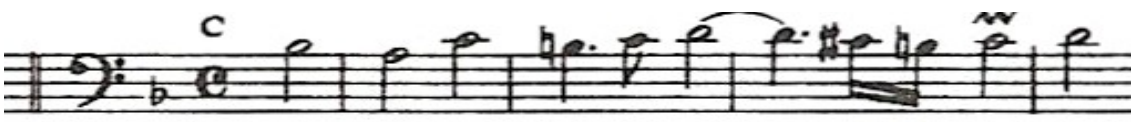


B.A.C.H. 12d = Bass Adjustable Coaxial Horn with 12” driver

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

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

This product is handcrafted in Switzerland, on order only.



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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 1.6 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)
  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 bass-reflex openings and the discrete adjustable mid- and high range allow optimized integration in rooms of different size, damping 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 selfs
■ Capacitors :	Polypropylène, loss angle < 0,0005
■ Resistors :	MOX and cement 10W
■ Internal wiring :	Swissonor cables in quad configuration
■ Connectors:	Laboratory connectors 1000V 16-32 A
■ Soldering:	Silver solder

Technical specification

Continuous noise AES standard.....300 W
Program power (6dB crest factor).....500 W
Peak power <10ms.....1000 W
Rated impedance.....8 Ohm
Sensitivity (Thiele half space reference efficiency).....97 dB(1W/1m)
Maximum acoustic output (1 loudspeaker).....117 dB
Maximum acoustic output (pair of loudspeakers).....123 dB
Frequency range in-axis .....46 – 18'000 Hz(+/- 3dB)
Recommended amplifier rating (tube amps).....1.5 - 30 Watt at 8 Ohm
Recommended amplifier rating (solid state amps)..... 20 – 80 Watt at 8 Ohm
Maximum reasonable amplifier power.....400 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 (2 + 8 kHz).....+/-1,5 dB discrete
Polarity : Positive voltage on red terminal gives forward cone motion
Housing : Handmade from plywood with different veneers, 2 component lacquer
External dimensions (without stands)..... W x H x D 505 x 785 x 410 mm

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