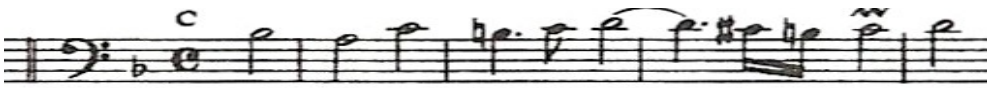
Swissonor.ch B.A.C.H.8d

“Bringing back life to music »

B.A.C.H. 8 = Bass Adjustable Coplanar Horn with 8” driver

Compact single driver horn-reflex loudspeaker, featuring fine adjustment in the low end by a unique tunable horn resonator, resulting in outstanding dynamics.

This rare high efficiency bookshelf-speaker transforms into a tower speaker using steel stands, or placed on top of Contra.C10 active subwoofer.
This product is developed and produced in Switzerland, with European quality components.



Goals

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

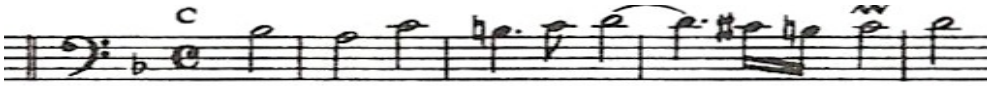
- **Relaxed listening** of all music styles, from very low to very high levels
- **The use of amplifiers covering all power classes,** explosive dynamics even with tube amplifiers with power as low as 8 W per channel. A second input allows use of solid state (transistor) amplifiers without loss of damping.
- **Reproduction of infinite details,** without projection, due to use of a single point source. This feature brings better spatial reproduction fidelity, too. A simple equalizing network improves linearity without adding phase shift.
- **Fullsize panoramic sound** (horizontally and vertically). The controlled directivity results in a smooth polar diagram in both planes.
- **Good dynamics** thanks to high efficiency combined to correct power rating. That's the only way to avoid the audible thermal compression of classic loudspeakers.
- **Easy placement,** in a bookshelf, on stands near a wall or even a corner. The 2 π environment is integral part of the loudspeaker design. The fine-tunable bass reflex opening allows 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.

■ Single source driver:	Cast aluminium basket, Neodymium magnet assembly.
■ Self :	Mundorf air core self with 1 mm OFC wire
■ Capacitors :	Mundorf polypropylene 250V, loss angle < 0,0003
■ Resistors :	Mundorf high power MOX and cement
■ Wiring:	
Internal wiring :	Swissonor #11.0 quad cables
To amplifier:	3 m of Swissonor #11.0 quad cables are joined
■ Connectors:	Swiss Made laboratory connectors 16 A

Technical specification

Continuous noise AES standard.....50 W
Program power (6dB crest factor).....100 W
Peak power <10ms.....150 W
Rated impedance.....8 Ohm
Sensitivity (Thiele half space reference efficiency).....93 dB(1W/1m)
Maximum acoustic output (1 loudspeaker).....105 dB
Maximum acoustic output (pair of loudspeakers).....111 dB
Frequency range in-axis .....52 – 15'000 Hz(+/- 3dB)
Recommended amplifier rating (tube amps).....6 - 30 Watt at 8 Ohm
Recommended amplifier rating (solid state amps)..... 20 – 80 Watt at 8 Ohm
Maximum reasonable amplifier power.....100 Watt at 8 Ohm
Low frequency adjustment range.....+/-1.5 dB continued
Polarity : Positive voltage on red terminal gives forward cone motion
Housing : Handmade from plywood, at choice white lacquer, wild cherry or coral wood veneer
External dimensions (without feet)..... 316 x 486 x 250 mm
External dimensions (including feet)..... 316 x 816 x 250 mm

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



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