

HOW THE ENGINEERS OF AEQUO AUDIO GET AN INCREDIBLE AND MAJESTIC PERFORMANCE OUT OF TWO SLIM AND COMPACT LOUDSPEAKERS

STILLA IS COMPACT, YET FULLY PACKED WITH HIGH-END COMPONENTS AND TECHNOLOGY

1. ARPEC™ SYSTEM ON 2 X 7 INCH SUBWOOFERS	2. EXQUISITE MIDRANGE	3. AUTO-STANDBY / CLIPPING DETECTION	4. FOOT WITH TILT CONTROL
ARPEC™: the fully analogue system that ensures natural, deep and adjustable bass from two 7" inch high linear excursion subwoofers. Opposed in the cabinet at 45 degrees to cancel out sideways vibrations.	Ultra-light (90db @8ohm) and well damped mineral filled polypropylene cone on super-fast fully symmetric low distortion developed with Skaaning family.	Chip based circuit detects the incoming signal for automatic standby functionality and also checks for clipping. Led indicator on top.	Innovative foot construction lets the whole speaker lean on one ball point which transfers vibrations into the sandwich billet aluminium/ artificial stone foot, which acts as a very tight spring.
5. POWERFULL N CORE AMPLIFIERS	6. LARGE AUDIOPHILE FILTER	7. S-STONE CABINET	8. EHDL™ HIGH FREQUENCIES
2 x 250 Watt delivered by best-in-class super low distortion Ncore amplification units (with analogue signal path) to relieve the customers amplifier of subwoofer duty.	Symmetric first order crossover filter enables wideband phase-aligned passive mid/high section. The point to point clamping plus silver-soldering of only top high-end components such as bespoke air coils, PP super caps and precision resistors.	Thermoformed ellipse-shaped artificial stone shell. This super acoustic material comes with stiffness and weight as granite yet 10x better damping, and is fitted under tension on Finnish birch frame glued in 45 degree angled matrix to cope with big force and sound pressures.	Large ring plus dome tweeter, placed in special acoustic lens for ideal horizontal vs vertical energy distribution. The centre of the soft dome is fixed by a dispersion cone on tensioned carbon rod to prevent anti-piston movement.
9. HORNLOADED BASS REFLEX	10. HQ WIRING AND CONNECTORS	11. ABSORBING FRONT/TOP	12. PASSIVE COOLING
Large horn port on the front leads to 20hz tuned bass reflex tunnelling. This provides deep-sea bass without any placement issues.	Massive pure copper wiring and genuine WBT speaker terminals with extra thick gold plating. Silver plated Powercon mains connector.	Compressed wool felt over entire front and top to cancel any indirect sound to ensure fast, open sound and total disappearing of the speaker.	Smart air routing with heatsinks and passive venting for optimal performance without noise.

HOW INVESTMENTS IN TECHNOLOGY AND CRAFTSMANSHIP PAY OFF IN RESULTS THAT EXCEED ALL EXPECTATIONS

TRULY FULL RANGE

- everything in perfect balanced harmony -

SRAJAN EBAEN OF 6MOONS ON FULL RANGE:

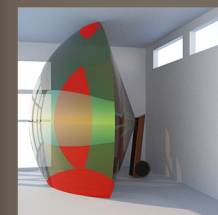
"Excellence of bass extension and clarity must mirror in the treble or what's thrown off is tonal balance. It's because Aequo's tweeter is such a premium specimen on reach, clarity, dispersion and dynamics that the aforementioned continuity factored prominently. These textile tweeters didn't play second fiddle to hard cones. Au contraire, they outclassed familiar ones."

OCTAGON PHILOSOPHY

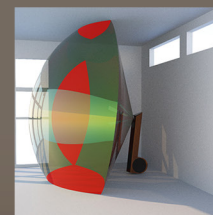
Uncompromised design approach - using the Octagon philosophy - to have Stilla excel in all eight aspects of the Octagon: Size and form, Room Acoustics, Soundstage & Imaging, Placement, Cleanliness, Precision, Amplifier Matching and Dynamics. By following this philosophy, no weak spots are allowed, resulting in a perfectly balanced combination of drivers and materials. The R&D and production process is costly in time, materials and labour. The EHDL tweeter system is a great example of that.

ELABORATE DESIGN

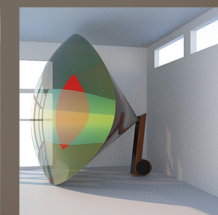
Along with the two 7-inch long-throw subwoofers, there is also a bass reflex running along the back of the inside of the speaker, ending in a horn-shaped port faced to the front. This makes the interior a real high-end challenge, uncompromised in design complexity and construction. This elaborate bass-reflex is tuned to the lowest notes around 20hz.



Normal speaker



Tilted speaker



Aequo Audio EHDL™

STEALTH PERFECTION

- a complete disappearance of the speakers -

MATEJ ISAK FROM MONO & STEREO:

"...the complete disappearing act [of the speakers] is not that common. Certain speakers do push this agenda to the extremes, but so far none of the dynamic speakers managed to nail the 'stealth-technology' as the Aequo Audio Stillas can."

SMALL BAFFLE

A small baffle is used to minimize reflections, making it very hard for everything to fit. This is especially true for the two 7-inch subwoofers, which are placed in two opposing 45 degree angles inside each Stilla.

PERFECT PHASE ALIGNMENT

An incredible amount of time and energy gets spent to get the phase alignment to perfection. When the alignment is perfect over the entire frequency bandwidth, the speaker acts as a virtual pointsource instead of individual drivers that attract attention to themselves. Mareb Dyba of HiFi Choice said he never heard such a coherent 3-way speaker before.

ROUND SHAPES

Using only round shapes to minimize reflections. Round shapes instead of straight boxes are very labour intensive and require skill and craftsmanship of our workers.

ABSORBING FELT

Complete front covered with special felt, absorbing reflections on the straight part of the baffle, really completing the stealth effect to master-level.



EXTREME ENGINEERING APPLIED TO FIT ALL TECH INTO COMPACT DESIGN

MATEJ ISAK OF MONO & STEREO ON STILLA'S SIZE VS PERFORMANCE:

"Stillas are defying their size with an impact that perpetually operates entirely out of given dimensions and would normally demand a much bigger chassis' volume."

● EVERY INTERNAL MM/INCH IS USED

Literally every internal millimeter is used to make all technology and hardware work optimal without interference and under perfect operating conditions. To do so in such a small enclosure is a difficult and costly process in both design and execution.

● EXPENSIVE AND DIFFICULT TO PRODUCE CABINET

The high tech materials needed to leave enough inside space whilst also being totally resonant free under big sound efforts. These optimum materials are not only only expensive but also need many hours of highly technical procedures and extensive craftsmanship. This painstaking effort is further increased by the execution of separate ellipse shaped shells of optimum shape for vibration free enclosure.

● COMPLEX FOOT DESIGN WHICH CANCELS OUT VIBRATIONS

How to keep this little giant in its place and cope with the extreme power it beholds whilst also ensuring easy tilt correction? This power needs the right coupling and uncoupling components towards the floor (of any material / sort): we did so by applying a sandwich foot plate of billet aerospace aluminium glued with a special visco elastic layer to the s stone composite. Together, the foot faces the speakers weight transferred as a single point on a flat triangular spring under high tension. It absorbs resonances, and keeps the speaker still.

THE RESULTS OF HIGH-END COMPACT DESIGN

The resulting Stilla is not just the only speaker that sounds 4 times bigger than its actual size and has all the qualities of the top high-end segment....it does more!

● BETTER IN DISAPPEARING

thanks to the edge-less, small width cabinet which includes absorbing felt to remove any possible reflections.

● BETTER SOUNDSTAGE

even in difficult rooms.

● EASIER TO PLACE IN ANY ROOM

delivering stunning sound, even when placed in difficult spots and strange shaped rooms.

● BETTER SOUND FROM THE AMPLIFIER: VERY EASE TO DRIVE

even for low wattage tube amps. There are two active subwoofers inside (fully analogue signalpath) plus an ingeniously placed 20hz tuned front-firing bass port. The amplifier is relieved of subwoofer duty and only has to drive the mid and tweeter.

● EASIER TO ADJUST FOR LISTENING HEIGHT

thanks to the smart foot design the tilt can be adjusted with one single bolt. Easy.

● EASY TO PLACE FOR HAIRPIN IMAGING

The shape of the foot allows it to rest on the one spike on the back so the speaker can be easily 'aimed' at the optimal direction.

BIGGER AND MORE ACCURATE BASS

SRAJAN EBAEN OF 6MOONS ON STILLA'S BASS:

"The big word in Stilla's bass vocabulary was control. That meant textures equal to the higher registers. Stilla's low registers bridged the worlds of small woofers for speed and control with that of mega woofers for raw extension."

TWO INTERNAL SUBWOOFERS

Each speaker contains two hidden 7-inch subwoofers and two 250 watts Hypex nCore amplifiers, INSIDE. Each internal mm is used.

CANCEL SIDEWAY ENERGIES

The woofers are placed in a 45 degree angle to cancel out sideways energies, resulting in very complex internal shapes.

EXPENSIVE HIGH-TECH FOOT

The high-tech foot is designed to act as a very tight spring, cancelling out all vertical energies. Only the best and strongest materials are used, making the entire foot a costly element yet it does a fabulous job in controlling forces.

ARPEC™ TECHNOLOGY

- audiophile analogue room adjustment -

UNIQUE ARPEC ADDS VALUE

The analogue room adjustment system adds incredible value to the speakers (unique technology of Aequo Audio). The analogue room adjustment enables the speakers to be placed in virtually any room. On each speaker you have two adjustable rotators for 'Room size' and 'Placement', making the adjusting feel very natural and easy to do. The ARPEC™ system DOES NOT USE DSP. This means the Stilla doesn't have the time delay typical of dsp-using hybrid speakers resulting in slow bass. This is the first audiophile approved room adjustment; completely analogue.

EASY AMPLIFIER MATCHING

- increased value per speaker -

NO SUBWOOFER-DUTY

The amplifier is relieved from "subwoofer duty" and it only has to drive the mid-range and tweeter. Amplifiers can be chosen for sound quality rather than power, which saves a lot of money when looking at complete system budget.

DRIVEN JUST LIKE SENSITIVE MONITORS

With 90 dB 8 ohms nominal and a closed-box impedance curve, the Stilla brings out the best in all amplifiers, even very low powered ones. Marek Dybaś (HiFi Choice) favourite amplifier was a 10-watt tube amp.

HIGH RES, LOW FATIGUE GENUINE SOUND

Very easy to add to an existing system: does not emphasise crisp towards harsh nor warm towards muddy. Shows the specific qualities of any and all components chosen by the listener.

NO EXTRA SUBWOOFER NEEDED

Especially for those who love organ music or movie spectacle: no extra subwoofer is needed. The Stilla plays even the very, very lows of 20hz and as for movies, center imaging is so realistic that adding a separate center speaker is redundant.

VALUE INCREASED

Saving money on system budget increases the value per speaker. When looking at the complete system, you get a lot more value for money with the Stilla than with a full passive 87 dB, 4 ohms nominal speaker with a back-firing bass port (like for instance the Wilson Audio Sabrina priced at € 22.490,-, which is even € 4500,- more expensive than Stilla!). These speakers would need powerful amplifiers, an extra subwoofer if going truly full range, possible bass treatment depending on the room and have very limited placement options due to fixed distance to the back wall, caused by the back firing bass port.

