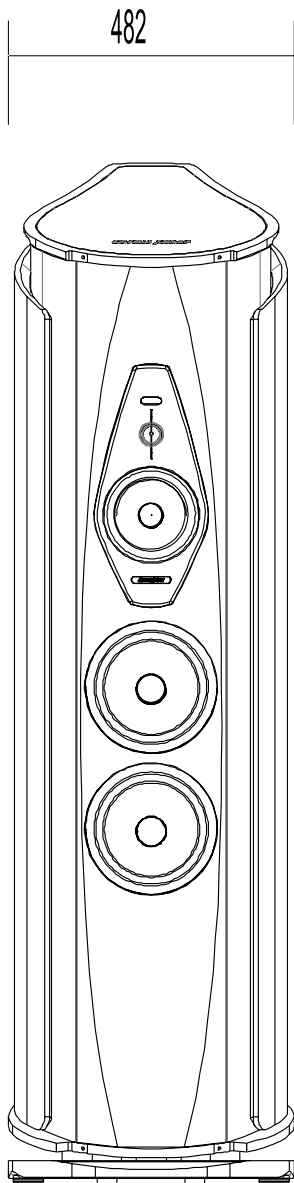


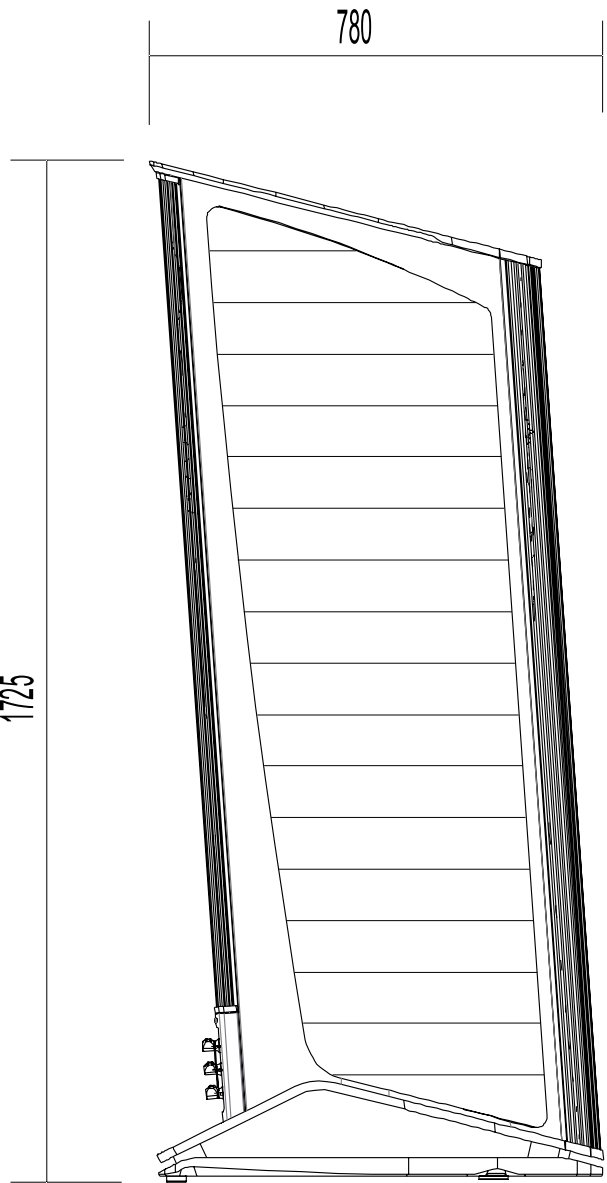
Pida

DATA SHEET

Sonus faber



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FREQUENCY RESPONSE:
20 Hz – 35.000 Hz, Stealth reflex included.

SENSITIVITY:
92 db SPL (2.83V/1 m).

NOMINAL IMPEDANCE:
4 ohm.

POWER HANDLING:
100W – 1KW, without clipping.

DIMENSIONS:
1725mm x 482mm x 780mm (HxWxD).

WEIGHT:
330 Kg per pair – net weight / 550 Kg per pair - shipping weight (The shipping weight may slightly change from time to time because different humidity values over the year might affect the wooden boxes' weight).

DESIGN SPECIFICATIONS

SYSTEM:

3.5 way, Sound field Shaper Technology, “Zero Vibration Transmission” technology, para-aperiodic vented box “Stealth Reflex System”, staggered low frequency floorstanding loudspeaker system.

CABINET:

“Lyra shape” design, dual side curvature, special cross grained okoumè plywood, used in a double thickness constriction layer damped configuration. Sub-structural ribs are strategically placed for total rejection of spurious vibrations and standing waves control. Two “dampshelves” (from “The” experience), i.e. CNC anodized machined avional “vibration dampers” (on the top and on the bottom of the cabinet) “stiffen” the column structure reducing consistently structural micro-vibrations coming from the cabinet walls and the transducers.

The “Anima legata” system is used in an innovative way, encompassing the 3 inner chambers of the front firing drive units. A special steel rod, a high speed mechanical interface, concentrates the remaining micro-vibrations conveying them to the dual multiple “Tuned Mass Dampers”, i.e. two differently tuned special custom devices optimized to erase micro-vibrations, by oscillating in anti-phase.

A totally new floating bridge “Bow spring” suspension for vibrational interface has been devised to decouple the enclosure from the floor through the Zero Vibration Transmission technology, a patent pending suspension system, eliminating any acoustic feedback and any vibration propagation to the listening room.

TWEETER:

Sonus faber “Arrow Point” DAD (Damped Apex Dome, synthesis of the classic dome and ring transducer) 29 XTR-06. A Sonus faber designed 29 mm moving coil driver, with Sonus faber’s vibration optimized mechanical interface. The ultra dynamic linearity is given by the new Neodymium motor system. Implemented with a natural wood acoustic labyrinth rear chamber, a mechanical anti-resonator designed for this application. To perfectly match the high frequency performance to different listening rooms and different tastes it is possible to adjust the SPL of the tweeter.

MIDRANGE:

Sonus faber M18 XTR-08. A Sonus faber designed 180 mm neodymium magnet system ultra dynamic linearity midrange. CCAW wire is used on a composite former “eddy current free” voice coil. The dynamically linear magnetic field motor incorporates triple Kellogg/Goeller rings. A special custom diaphragm is made with a real time air dried non pressed blend of traditional cellulose pulp, kapok, kenaf and other natural fibers, developed according to the most natural sound. To further inhibit any residual cone coloration we are using a transparent viscous surface damping coating.

The basket is thoroughly optimized to eliminate any resonance, thanks to a high-tech dual metal (Avional and Gun Metal), CNC machined from solid billets.

The combination of the two different materials, Avional and Gunmetal, allows eliminating any mutual resonance. The same way as the tweeter, the midrange is decoupled from the main baffle board and designed synergistically with its optimized “acoustic chamber”. A special coaxial anti-compressor is used, designed to remove cavity resonances and distortions.

WOOFERS:

Sonus faber W22 XTR-12. A pair of Sonus faber designed 220 mm lightweight “sandwich” cone structure (high-tech syntactic foam core and two external surface skins of coated cellulose pulp) woofers are embeded in an acoustically amorphous “stealth reflex” chamber. Designed to blend perfectly with the special midrange and, at the same time, to have absolute definition in their range: the sandwich structure with outer paper pulp skins has the same sonic character of the midrange cone. A long-throw motor system with a 2” controlled “eddy current” voice coil is implemented for high speed, performance and linearity.

Special coaxial anti-compressor are used, designed to remove cavity resonance and distortions.

INFRA WOOFER:

Sonus faber SW32 XT-08. Sonus faber designed a 320 mm infra woofer, lightweight honeycomb composite sandwich cone structure with Nanocarbon technology for a maximum rigidity and implemented it in an acoustically amorphous “stealth reflex” chamber. The unit features a very powerful long throw motor with a 3” voice coil for ultra dynamic linearity. To perfectly match the low-end performance to different listening rooms it is possible to adapt the SPL of the infra woofer.

SOUND FIELD SHAPER:

The special patented Sound field Shaper technology, a direct derivation from the “The”, allows the control of the direct/reverberant radiation ratio of the Aida. The sound field shaping module can be SPL optimized.

SOUND FIELD SHAPER TWEETER:

29 mm ultra dynamic linearity neodymium dome driver. Optimized off-axis radiation for this special application.

SOUND FIELD SHAPER MIDRANGE:

120 mm, paper pulp/natural fiber blend cone driver for maximum coherence with the front midrange emission.

CROSS-OVER:

Non-resonant design, optimized amplitude/phase response for optimal space/time performance. “Paracross topology” on the tweeter hi-pass. The impedance at low frequencies is controlled for a clear and friendly amplifier performance. Triple staggered transfer function low frequency/room interface optimized filter. Highest quality is used in terms of the components: Mundorf “Supreme” Silver/Gold/Oil capacitors, Jantzen inductors. Cross-over: 55Hz - 180 Hz - 250 Hz - 3000Hz.

