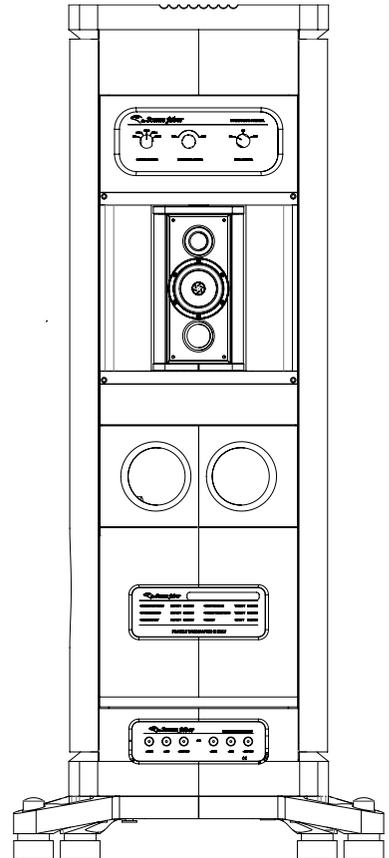
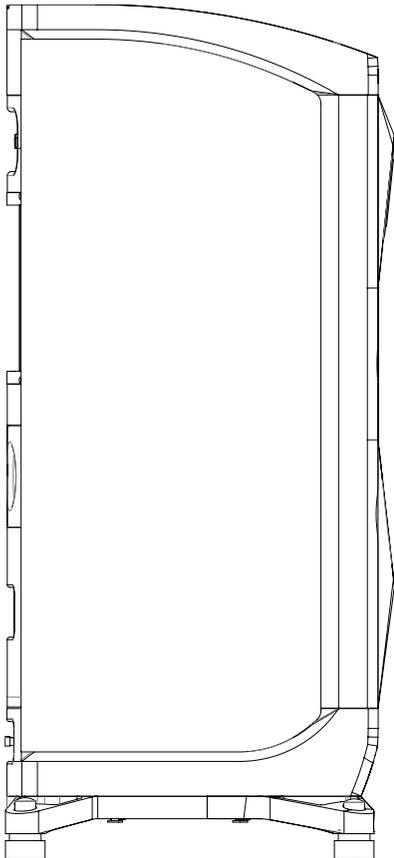
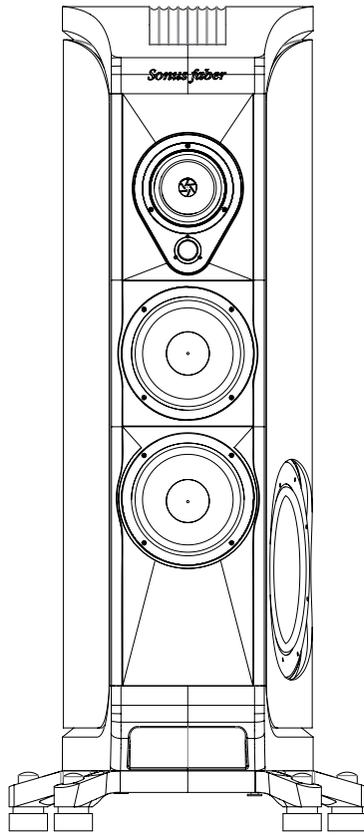




DATA SHEET

*Sonus faber*



## DESIGN SPECIFICATIONS

### SYSTEM:

3.5 way, sound field shaper variable geometry radiation, vibration cancellation optimized system, stealth reflex vented box, loudspeaker system.

### CABINET:

“Lyre shape” design, dual side curvature, special cross grained okumè plywood, used in a double thickness constriction layer damped configuration, has significant advantages compared to the single curvature variant used previously, in terms of low coloration. Sub-structural plywood ribs are strategically placed for total rejection of spurious vibrations and standing waves control.

“Anima legata” system, based on two clamshells, i.e. CNC anodized machined avional “vibration conveyors” (on the top and on the bottom of the cabinet) that “collect” the remaining structural micro-vibrations coming from the cabinet walls and the transducers, like the parabola of an antenna. The two clamshells are rigidly connected by a special steel rod, a high speed mechanical interface, the “Soul Pole”, that concentrates the micro-vibrations to the “Multiple Tuned Mass Damper”, a special custom device optimized to critically damp structural resonances, by oscillating in anti-phase.

The enclosure is decoupled from the floor through a patent pending suspension system, eliminating any acoustic feedback and any vibration transmission to the listening room.

### TWEETER:

29 mm ultra dynamic linearity hybrid Neodymium/Samarium-Cobalt Larsen/Goeller ring radiator, visco-elastically decoupled from the main baffle board. Implemented with a natural wood acoustic labyrinth rear chamber, with a mechanical anti-resonator designed for this application.

### MIDRANGE:

180 mm cone neodymium magnet system driver with the 1.5” voice-coil of the “well hung” type chosen for the advantages of both the “under hung” and “over hung” designs. Special custom blend cone made of traditional cellulose pulp, papyrus and other natural fibers developed according to the most natural sound. The basket is thoroughly optimized to eliminate any resonance, fully CNC machined from solid billets of Avional and Gunmetal. The combination of the two different metals allows eliminating any mutual resonance. The same way as the tweeter, the midrange is decoupled from the main baffle board.

### WOOFERS:

260 mm woofers with a “sandwich” cone structure, high-tech syntactic foam core and two external surface skins of coated cellulose pulp. 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. 3” voice-coils on Kapton former allow an unlimited dynamic performance and low hysteresis.

### INFRA WOOFER:

380 mm infra woofer sandwich cone structure with high-tech syntactic foam core and two external surface skins in nano carbon fibre for maximum rigidity and light weight. 4” voice-coil optimized to have progressive damping, through the use of both Kapton and Avional in the former, to control the Lorentz currents proportionally to the excursion obtaining this way the tightest available lows. 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:

Special patented Sound Field Shaping technology allows the control of the direct/reverberant radiation of *the Sonus faber*. The sound field shaping module can be optimized in terms of azimuth and SPL.

### SOUND FIELD SHAPER TWEETER:

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

### SOUND FIELD SHAPER MIDRANGE:

120 mm neodymium hexadyne magnet system, paper pulp/papyrus/natural fiber cone driver, as used for the front midrange. It is a classic Sonus faber choice, a 4th generation derivative of the unit used on the original Minima.

### CROSSOVER:

Non-resonant progressive slope design, optimized amplitude/phase response for optimal space/time performance. The impedance at low frequencies is controlled for a clear and amplifier friendly performance. Maximum quality is used in terms of the components: mundorf Silver/Gold/oil capacitors, Jantzen Cross coil inductors.

### FREQUENCY RESPONSE:

18Hz – 36000Hz, Stealth reflex included.

### SENSITIVITY:

92 db spl (2.83V/1m).

### NOMINAL IMPEDANCE:

4 ohm.

### POWER HANDLING:

100W - 1KW, without clipping.

### DIMENSIONS:

1750 x 750mm x 785mm (HxWxD)

### WEIGHT:

615 Kg per pair – net weight

742 Kg per pair – shipping weight.