



**SILTECH**

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The Majesty of Music  
**Symphony Speaker System**

# The Symphony Drivers

The Symphony's vast full-range, 6-way design has been meticulously engineered to reproduce the full frequency spectrum of an orchestra, as well as all other instruments and their harmonics, to way beyond audible range.

It features twelve units, covering bass, midrange, and treble frequencies with the lowest possible distortion and the highest accuracy. They integrate seamlessly to produce a vast, expansive sound with superlative soundstaging.

The Symphony's middle section includes two ribbon tweeters, alongside a tweeter and a diamond dome supertweeter. These handle high frequencies up to 100kHz (-3dB). Beside them are three 120mm midrange drivers, and the fourth is a larger 210mm unit sitting in the section above.

Consequently the speaker works as a line source, ensuring that the sound emanates from a single place in space for optimal stereo imaging. Also, the huge combined surface area of the drivers powerfully couples to the air, for more efficient energy transfer and lower distortion, even at high levels.

Below, the bass section has four ultra-low distortion 450mm woofers, specially developed by Siltech. Together they deliver clean, effortless, and unconstrained low frequencies in practically any room, right down to 17Hz (-3dB).



*The middle section brings treble and midrange drivers together in a line array*



*Four huge 450mm woofers deliver seismic bass performance*



*The custom-designed diamond dome supertweeter extends right up to 100kHz*

# The Symphony **Cabinet**



*Special ruby decouplers separate the speaker's three cabinet sections*



*The Symphony's unique, open-back frame construction suppresses resonance*



*The speaker is supplied with rear grill covers*



*The cabinet frame has adjustable curvature to suit the listener's room*

The Symphony's cabinet is a huge, asymmetrical U-frame, divided into three separate open sections. Each has aluminum walls with polymer to absorb energy, and the front baffle is a thick slab of aluminum with multiple curvatures for maximum rigidity.

The loudspeaker's sheer physical size, along with its unique driver complement, means it can deliver extremely high sound levels. This creates its own problem – that of managing resonance.

As well as the unique wall construction, each section of the cabinet is decoupled from the others using special curved ruby decouplers. These slot securely into machined apertures in the top of the section beneath.

Ruby is the hardest material there is after diamond, but less brittle and easier to machine. For visual effect, they have red LED up-lighting of the same wavelength as CD player lasers, which can be switched off by remote control should you so wish.

The cabinet assembly has curvature built into it, adjustable to suit the listener's seating position. In effect, the whole loudspeaker can be bent by two hinges to account for listening distances from 3.6m/12ft up to infinity, for optimum stereo imaging.

# The Symphony **Crossover**

Just as an orchestra cannot properly perform if one musician lets the side down, any loudspeaker is only as good as its constituent parts. The best requires the finest cabinet, drive units, and crossover. The Symphony brings all three together harmoniously.

Its crossover is completely different to that seen on any other loudspeaker. It is neither a conventional active nor passive design, but instead uses Siltech's exclusive passive buffer technology to electrically direct-couple the crossover to its drive units.

Instead of relying on the mechanics of a driver's suspension to return its cone to the rest position, the zero-gain buffer amplifiers in Siltech's powered electronic crossover network do this job. The design is based around capacitors and resistors rather than coils, and so has superior tolerances and is not influenced by magnetic fields.

This smart analogue technology removes the signal loss of passive components, and compensates for their variability under load. It also sidesteps the phase problems that arise from steep filters. The result is dramatically reduced start/stop times for the drive units, which can track the super-fast transients of live music. Unaffected by ambient temperature, it is more consistent in real-world conditions, too.



*Siltech's exclusive passive buffer crossover gives a totally seamless sound*



*The rear terminal block employs two ultra high quality speaker binding posts*

## Specifications

Frequency response	17Hz-100kHz (-3dB)
Minimum input power	>20W RMS per channel
Maximum SPL	125dB before clipping
Total Harmonic Distortion	<0.25%, 20Hz-20kHz
Size (WxDxH without base)	700x800x1,900mm
Weight per speaker	250kg

# A loudspeaker **like no other**

Siltech's Symphony Loudspeaker System is a unique, full-size design that is engineered to bring you as close as possible to the majesty of great musical works.

It uses original technology unseen in any other loudspeaker, to impart the glory of the finest recordings. Built to deliver realistic, uncompressed bass, the Symphony has uncanny midrange clarity and supremely natural treble. Its stereo soundstaging is cathedral-like, and dynamic accuracy is second only to a live performance.

This was impossible to achieve by conventional speaker design methods, so the Siltech team took a radically different approach. The Symphony is the culmination of decades of intensive research into acoustics by expert acousticians, electronics engineers, and musicians. Chief designer and engineer Edwin Rynveld spearheaded the team.

This 'clean sheet' approach was only possible from the world's leading high-end cable manufacturer. The Symphony project emerged from the need to hear as deep into recordings as possible, when developing the no-compromise interconnects, speaker cables, and power leads for which Siltech is famous.

The Symphony is an ingenious reference loudspeaker system, designed to maximise the enjoyment of music harmoniously in your home. Do hear it, if you possibly can.



*Edwin van der Kley Rynveld*

A stylized, handwritten signature in white ink, which appears to be 'Rynveld', written over a faint technical drawing of a speaker cabinet.



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Handmade in The Netherlands

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